

I-75 (SR 93A)

FINAL CONTAMINATION SCREENING EVALUATION REPORT

PD&E Study from South of Fowler Avenue, Hillsborough County, to South of SR 56, Pasco County

WPI Segment No.: 408459 1
Federal Aid Project Number: 0751 105 I

Reevaluation Study from South of SR 56 to CR 54, Pasco County

WPI Segment No.: 258736 1
Federal Aid Project Number: NH-75-1(91)275

Florida Department of Transportation District Seven



April 2004

**FINAL
CONTAMINATION SCREENING EVALUATION REPORT**

**I-75 Hillsborough and Pasco Counties
Project Development & Environment Study**

**PD&E Study from South of Fowler Avenue, Hillsborough County to
South of SR 56, Pasco County**

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CR 54, Pasco County**

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Federal Aid Project Number: NH-75-1-(91)275

The proposed action involves improvements to I-75 from south of Fowler Avenue to County Road 54, a distance of approximately 13.9 miles.

**Florida Department of Transportation
District Seven**

Prepared by:
Parsons Brinckerhoff Quade & Douglas, Inc.

April 5, 2004

EXECUTIVE SUMMARY

The Florida Department of Transportation (FDOT) has conducted studies to evaluate and document the proposed improvements to Interstate 75 (I-75) from south of Fowler Avenue in Hillsborough County to County Road (CR) 54 in Pasco County. A Project Development and Environment (PD&E) Study was conducted for the I-75 segment from south of Fowler Avenue to south of SR 56 in Hillsborough and Pasco Counties, Florida. A Design Change Reevaluation has been approved by the Federal Highway Administration (FHWA) for the remaining I-75 segment from south of SR 56 to CR 54 in Pasco County. The Reevaluation Study compared and documented the new approved design concepts to those contained in the I-75 PD&E Study that was approved by the FHWA on November 27, 2000. The combined length of these studies was approximately 13.9 miles.

A Level 1 Contamination Screening of the I-75 project corridor was conducted to determine the potential for contamination of the I-75 right-of-way from adjacent properties and business operations.

This Contamination Screening Evaluation Report was prepared pursuant to the FHWA's Technical Advisory T 6640.8A, dated October 30, 1987, and in accordance with the FDOT's PD&E Manual, Part 2, Chapter 22, dated February 8, 1994, as further modified and clarified by the District Contamination Impact Coordinator. The purpose of this report is to present the preliminary findings of a literature and file review of the potential for finding hazardous materials and petroleum contamination on parcels along the proposed alignment which may affect the proposed improvements. Abutting sites were identified as potential sources of hazardous materials and petroleum contamination. Sites with suspected or documented contamination were further evaluated for potential contamination risks with respect to effects to construction and right-of-way acquisition.

Fourteen sites were identified as having the potential for petroleum or hazardous materials contamination for the PD&E Study from south of Fowler Avenue to south of SR 56 in the vicinity of Cypress Creek. Of the 14 sites, 11 are considered to be potential petroleum sites, two are considered to be a potential hazardous materials sites and one is considered to be both a potential petroleum and hazardous materials site. No sites in the project area received a rating of HIGH. One site received a rating of MEDIUM, eight sites received a rating of LOW and five sites received a rating of NO.

The one site rated as having a MEDIUM potential for contamination involvement is Site No. 2 - Morris Bridge Landfill (Segment A).

Ten sites were identified as having the potential for petroleum or hazardous materials contamination for the Reevaluation from south of SR 56 in the vicinity of Cypress Creek to CR 54. Of the 10 sites, eight are considered to be potential petroleum sites and two are considered to be potential hazardous materials sites. No sites in the project area received a rating of HIGH. Four sites received a rating of MEDIUM, five sites received a rating of LOW and one site received a rating of NO.

The four sites rated as having a MEDIUM potential for contamination involvement are:

- Site No. 18 - Citrus Country Shell (Segment F)
- Site No. 19 - Texaco – Wesley Chapel (Segment F)
- Site No. 21 - Citgo (Segment F)
- Site No. 22 - Denny's – Master's Economy Inn (Segment F)

It is recommended that a Level 2 Contamination Assessment be conducted for the five sites rated as having a MEDIUM potential for contamination involvement.

TABLE OF CONTENTS

EXECUTIVE SUMMARY -----	ES-1
1.0 INTRODUCTION -----	1
1.1 Purpose-----	1
1.2 Project Description-----	1
2.0 LAND USE DATA -----	3
2.1 Existing Land Use-----	3
2.2 Future Land Use-----	6
3.0 GEOTECHNICAL AND GENERALIZED SOILS DATA -----	6
4.0 METHODOLOGY -----	8
4.1 Environmental Database Search-----	12
4.2 FDEP Petroleum Cleanup Programs-----	14
4.3 Site Ratings-----	15
5.0 PROPOSED IMPROVEMENTS -----	15
5.1 Typical Sections-----	16
5.1.1 Segment A - Fowler Avenue to Fletcher Avenue-----	16
5.1.2 Segment B – Fletcher Avenue to 3,000 Feet North of the Hillsborough River	16
5.1.3 Segment C – 3,000 Feet North of the Hillsborough River to Bruce B. Downs Boulevard-----	16
5.1.4 Segment D – Bruce B. Downs Boulevard to the I-275 Interchange-----	19
5.1.5 Segment E – I-275 Interchange to SR 56-----	19
5.1.6 Segment F – SR 56 to CR 54-----	19
5.2 Alignments-----	24
5.3 Interchanges-----	24
5.3.1 Fowler Avenue-----	24
5.3.2 Fletcher Avenue-----	24
5.3.3 Bruce B. Downs Boulevard-----	24
5.3.4 I-275-----	24
5.3.5 SR 56-----	25

6.0	PROJECT EFFECTS	25
7.0	REGULATORY STATUS OF SITES	38
8.0	FINDINGS AND RECOMMENDATIONS	38
9.0	REFERENCES	40

LIST OF FIGURES

Figure 1	Project Location Map and Potential Contamination Sites	2
Figure 2	Existing Land Use	4
Figure 3	Future Land Use	7
Figure 4	Soils Map	9
Figure 5	Proposed Six-Lane Typical Section With Auxiliary Lanes – Southern Portion of Segment B	17
Figure 6	Proposed Six-Lane Typical Section With Auxiliary Lanes – North Portion of Segments B & C	18
Figure 7	Proposed Six-Lane Typical Section – Segment D	20
Figure 8	Proposed Six Lane Typical Section with Auxiliary Lanes (Option 3) – Segment E	21
Figure 9	Proposed Six-Lane Typical Section With Auxiliary Lanes –Segment F North and South of the Airport	22
Figure 10	Proposed Six-Lane Typical Section With Auxiliary Lanes – Segment F In the Vicinity of the Airport	23

LIST OF TABLES

Table 1	Potential Hazardous Materials and Petroleum Sites	26
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LIST OF APPENDICES

Appendix A Environmental Data Report

Appendix B Site Specific Data

1.0 INTRODUCTION

The Florida Department of Transportation (FDOT) has conducted studies to evaluate and document the proposed improvements to Interstate 75 (I-75) from south of Fowler Avenue in Hillsborough County to County Road (CR) 54 in Pasco County. A Project Development and Environment (PD&E) Study was conducted for the I-75 segment from south of Fowler Avenue to south of SR 56 in Hillsborough and Pasco Counties, Florida. A Design Change Reevaluation has been approved by the Federal Highway Administration (FHWA) for the remaining I-75 segment from south of SR 56 to CR 54 in Pasco County. The Reevaluation Study compared and documented the new approved design concepts to those contained in the I-75 PD&E Study that was approved by the FHWA on November 27, 2000. The combined length of these studies was approximately 13.9 miles. Figure 1 indicates the limits of the PD&E and Reevaluation Studies.

The general objective of both Studies was to provide documented information necessary for the FDOT to reach a decision on the type, design and location of improvements to I-75. This study incorporated all recommended improvements contained in the FHWA approved Interchange Modification Report for I-75 at CR 581 (Bruce B. Downs Boulevard), hereinafter referred to as the I-75/CR 581 IMR.

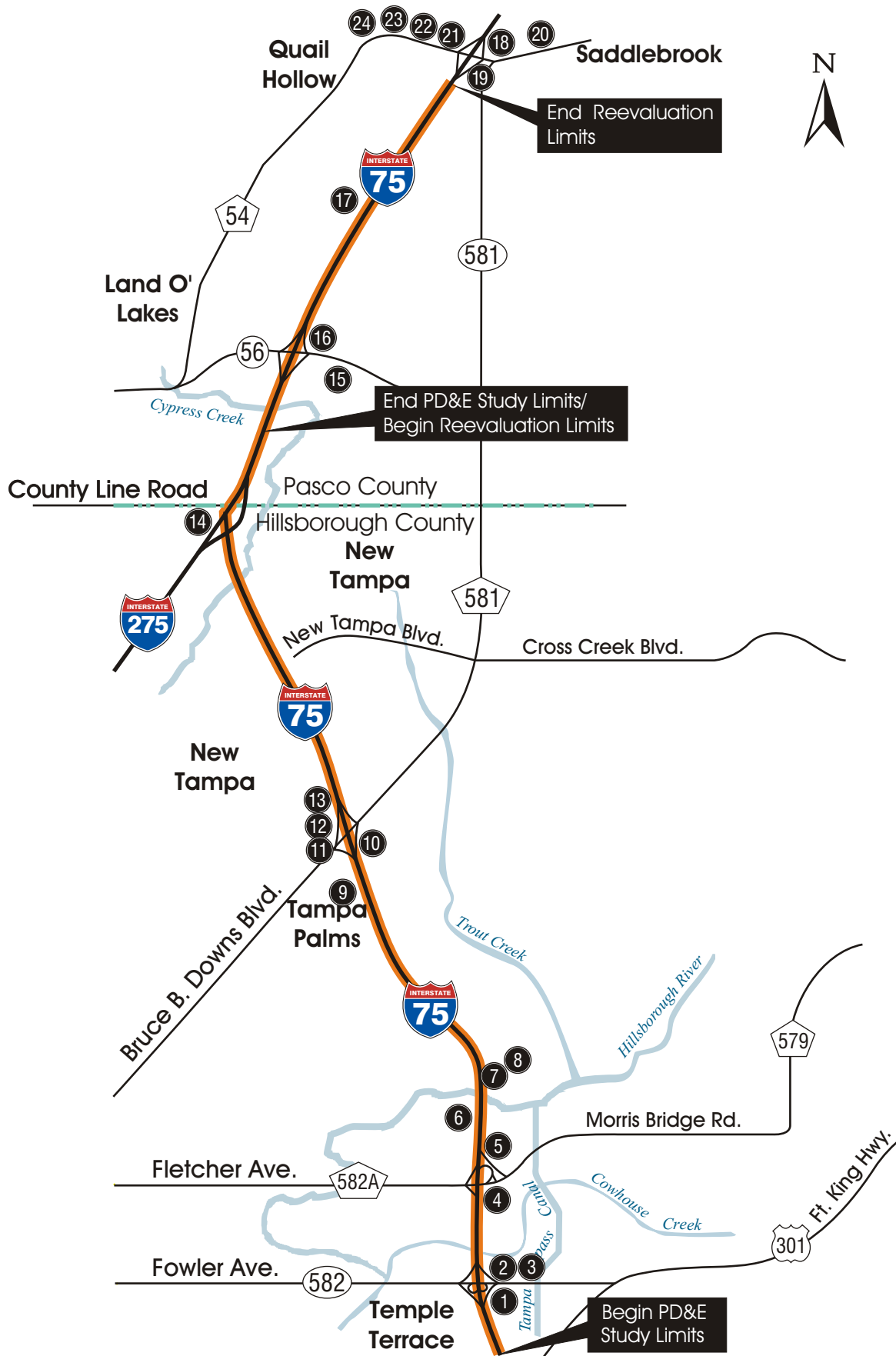
1.1 Purpose

This Contamination Screening Evaluation Report (CSER) was prepared pursuant to the FHWA's Technical Advisory T 6640.8A, dated October 30, 1987, and in accordance with the FDOT's PD&E Manual, Part 2, Chapter 22, dated February 8, 1994, as further modified and clarified by the District Contamination Impact Coordinator.

The purpose of this report is to present the preliminary findings of a literature, file and field review of the potential for finding hazardous materials or petroleum contamination on parcels adjacent to the proposed alignment which may affect the construction of the proposed improvements. This report identifies and evaluates sites with known and potential hazardous materials and petroleum involvement, discusses possible effects to the proposed alignment and typical sections and presents recommendations concerning these involvements. The evaluation included document and file research, coordination with the Florida Department of Environmental Protection (FDEP), site reconnaissance, and interviews with owners (where necessary) for potential petroleum and hazardous materials storage.

1.2 Project Description

The PD&E Study addressed proposed improvements to I-75 from south of Fowler Avenue in Hillsborough County to south of SR 56 in Pasco County. The existing facility is typically a four-lane limited access highway. This Study evaluated six-lane and six-lane with auxiliary lanes typical section alternatives and a No-Build Alternative.



I - 75 PD&E Study
 from south of Fowler Avenue to CR 54
 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 I
 WPI Seg. No: 258736 1 / FAP No: NH-75-1-(91)275

**PROJECT LOCATION MAP
 AND POTENTIAL CONTAMINATION SITES**

**Figure
 1**

A Design Change Reevaluation of Work Program Item Segment No. 258736 1 was approved by the FHWA for the I-75 section from south of SR 56 to CR 54. The previous PD&E Study, approved by the FHWA on November 27, 2000, evaluated adding two lanes (one lane in each direction) to the existing roadway from south of SR 56 to north of SR 52. This Reevaluation Study evaluated design changes within a portion of this original Study.

In order to simplify the alternatives analysis, the I-75 project corridor was divided into the following study segments:

- Segment A – from south of Fowler Avenue to Fletcher Avenue
- Segment B – from Fletcher Avenue to 3,000 feet north of the Hillsborough River
- Segment C – from 3,000 feet north of the Hillsborough River to Bruce B. Downs Boulevard
- Segment D – from Bruce B. Downs Boulevard to the I-275 interchange
- Segment E – from the I-275 interchange to SR 56
- Segment F – from SR 56 to CR 54

All segments were evaluated to determine the effects of providing additional capacity to accommodate future traffic demand.

2.0 LAND USE DATA

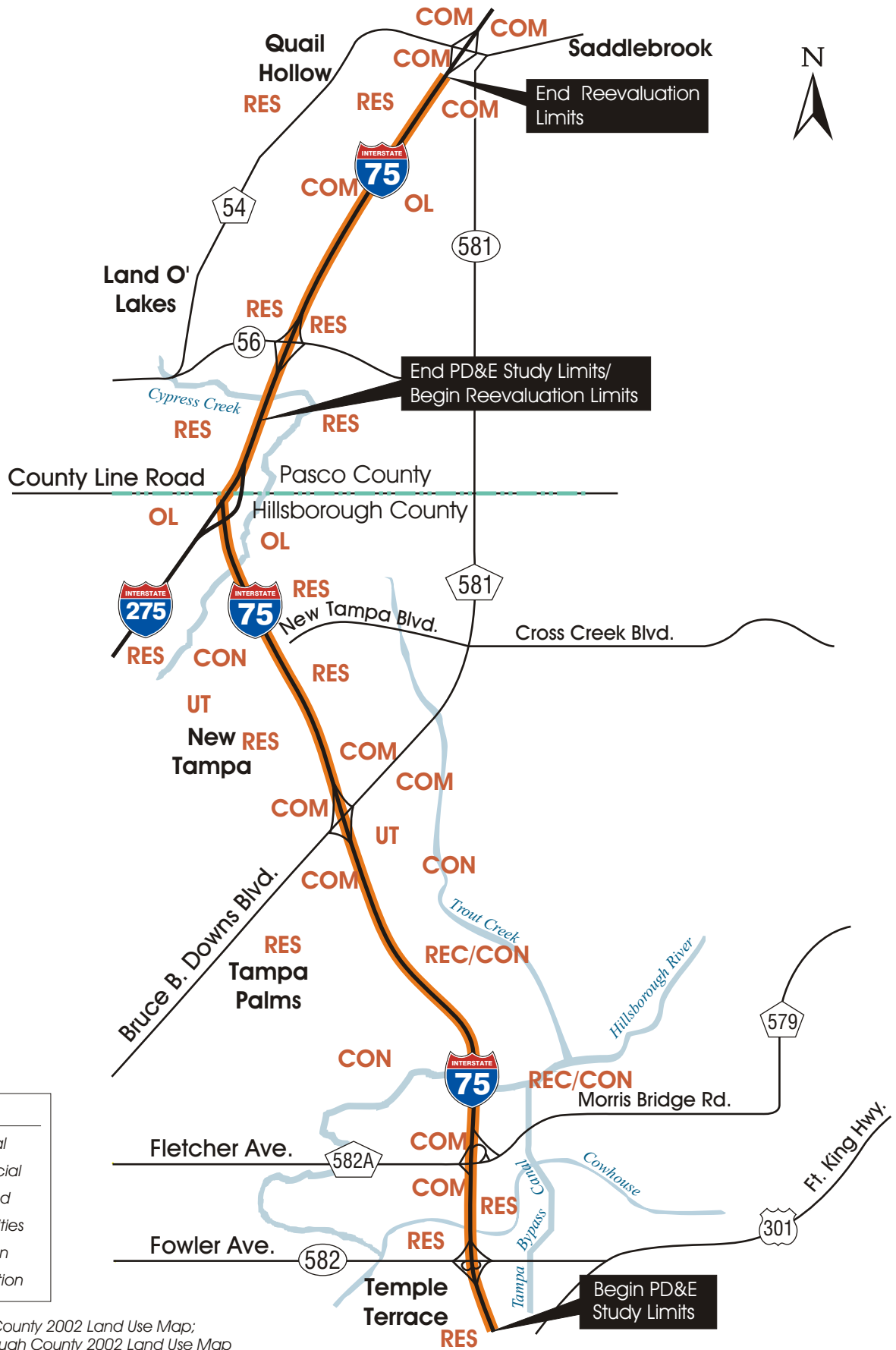
Field investigations and other historic documentation provided land use information for the I-75 project corridor. The Hillsborough County, Pasco County and Temple Terrace Existing and Future Land Use Maps, and current and historical aerial photography of both counties were examined to provide a comparison of land use changes.

2.1 Existing Land Use

The project corridor primarily contains open, agricultural and conservation lands and residential, water and commercial uses. A small portion of the corridor is designated for recreation/open space and public uses. The existing land uses in the project corridor are further described below. The existing land use is shown in Figure 2.

Residential

Approximately 15 percent of the project corridor contains residential areas. Primarily low density and some medium density residential land uses are scattered throughout the project area. The most densely populated area along the corridor lies between US 301 and Fletcher Avenue with a higher concentration located on the west side of I-75. Other residential properties are located in the southwest and northeast quadrants of the Bruce B. Downs Boulevard interchange. In Pasco County, a residential development is located just north of the southbound rest area and also in the northeast quadrant of the SR 56 interchange.



LEGEND	
RES	- Residential
COM	- Commercial
OL	- Open Land
UT	- Public/Utilities
REC	- Recreation
CON	- Conservation

SOURCES: Pasco County 2002 Land Use Map;
Hillsborough County 2002 Land Use Map

I - 75 PD&E Study
 from south of Fowler Avenue to CR 54
 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 I
 WPI Seg. No: 258736 1 / FAP No: NH-75-1-(91)275

EXISTING LAND USE

Figure
2

Agricultural/Rural and Open Land

Approximately 50 percent of the project corridor contains undeveloped/open land and areas classified as agricultural/rural land. These areas are scattered throughout the project corridor and are intermixed with residential and commercial properties.

Commercial & Services

Approximately 10 percent of the corridor contains developed commercial uses. Strip malls and commercial uses are predominantly located on the major arterials on both sides of the interchanges except for the east side of the Fowler Avenue interchange and the SR 56 interchange. Commercial properties along the arterials include gasoline stations, banks, office complexes/parks, shopping centers, medical clinic, car dealerships, restaurants, and convenience stores.

Industrial

The Tampa Bay Aero Park, located west of I-75 between SR 56 and CR 54, is designated as an industrial use in the project corridor.

Public/Utilities

Utilities in the project area include the City of Tampa water treatment plant (WTP) located in the southeast quadrant of the Bruce B. Downs interchange. A small WTP is located on the east side of the project corridor just north of SR 56. The public facilities designation also includes the northbound and southbound rest areas in Pasco County. Freedom High School and Liberty Middle School are located in the northwest quadrant of the Bruce B. Downs Boulevard interchange.

Recreation/Open Space

Approximately five percent of the project corridor contains recreation/open space areas. Wilderness Park encompasses approximately 7,200 acres of the Lower Hillsborough Flood Detention Area (LHFDA), making it the largest regional park in Hillsborough County. The park is managed by Hillsborough County under agreement with the Southwest Florida Water Management District. The LHFDA is located northeast of Tampa and is to the east of I-75. Within Wilderness Park are five park sites. Flatwoods Park is adjacent to the I-75 corridor. The New Tampa Nature Park is currently under development by the City of Tampa. It is generally situated south of Bruce B. Downs Boulevard and east of I-75.

Conservation Lands

Approximately 20 percent of the project corridor contains conservation lands that are primarily affiliated with the Hillsborough River and Cypress Creek.

Water

The Hillsborough River, Cowhouse Creek, Cypress Creek and the Tampa Bypass Canal and their associated tributaries comprise most of the water uses in the project corridor.

2.2 Future Land Use

The Hillsborough and Pasco Counties Future Land Use Maps show that most land uses currently classified as agricultural/open land will be used for residential areas in the future. The area around the CR 54 interchange will become predominantly commercial/retail surrounded by areas of residential uses. The City of Temple Terrace Future Land Use Map shows that commercial land use will dominate the areas around the Fowler and Fletcher Avenues interchanges. Areas currently designated as conservation lands will remain unchanged. The Future Land Use Map is shown in Figure 3.

3.0 GEOTECHNICAL AND GENERALIZED SOILS DATA

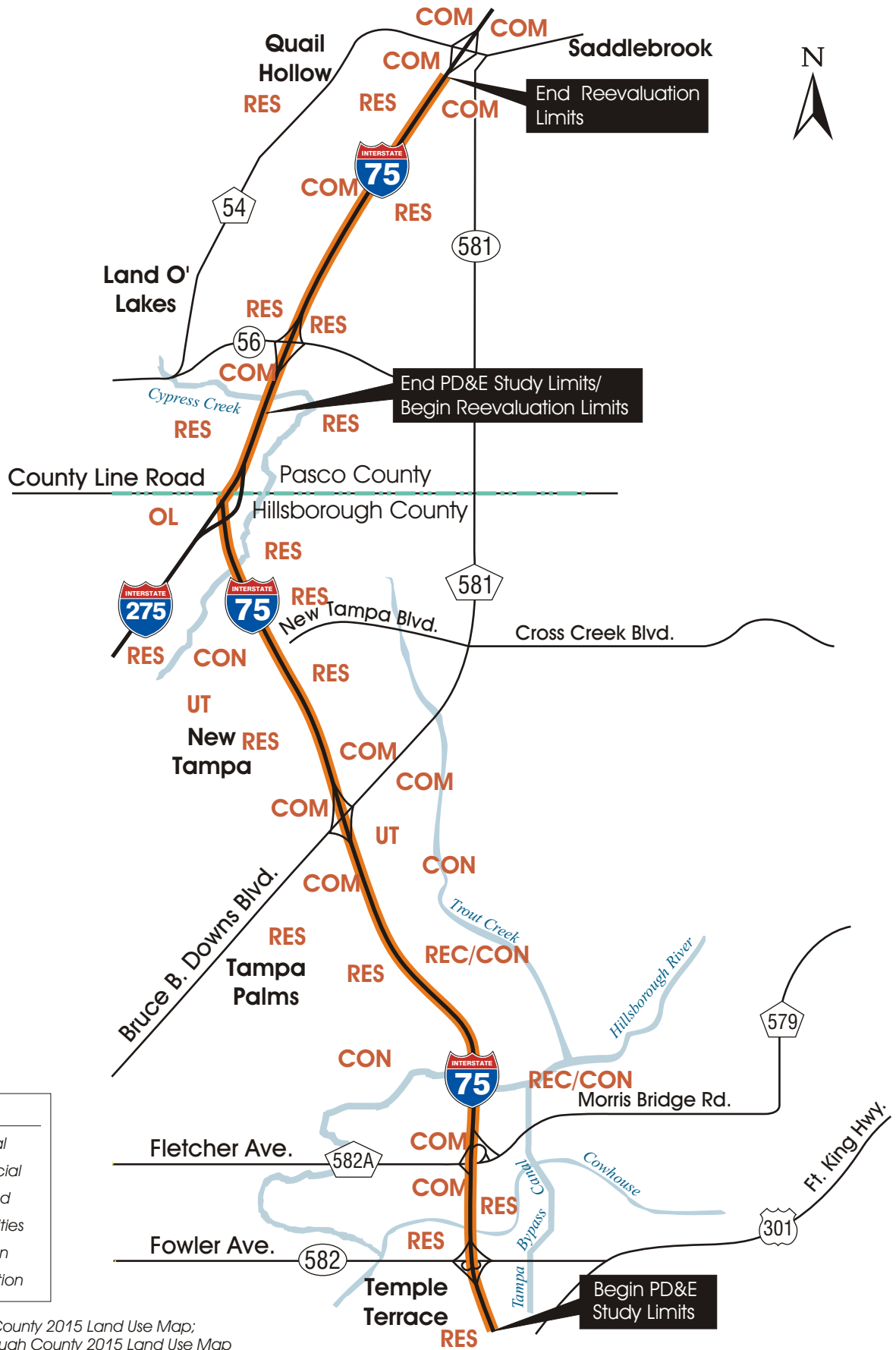
Karst topography is characteristic of the geomorphology of the I-75 project area and is evident of a high variability of the top of a relatively shallow competent limestone and the potential for the occurrence of cavities in the limestone strata. This information was verified based on a review of soil borings performed in the vicinity of the Fletcher Avenue interchange and soil borings performed at Cabbage Swamp, as part of the SR 56 design. The top of the limestone was found to be about 40 to 50 feet below land surface (bls) at the Fletcher Avenue interchange and at a depth of 30 to 80 feet at Cabbage Swamp. The top of the limestone found at Cabbage Swamp exhibits a high variability at a depth of 20 to 30 feet. The occurrence of cavities affects the morphology of the region creating distinct depressional areas, referred to as sinkholes. Sinkholes are present immediately north of the Fletcher Avenue interchange.

The surficial soils of the I-75 corridor generally consist of loose fine sand to slightly clayey fine sand. Depressional areas are common along the I-75 mainline and some are subject to frequent flooding. The soils present at the depressional areas have high clay and organic matter content.

The soils found along I-75 between the Fowler Avenue and the Fletcher Avenue interchanges are associated with loose fine sand to a depth of 80 inches. Seasonal High Ground Water Table (SHGWT) is found at a depth of 80 inches or more bls. I-75 crosses Cowhouse Creek and the Hillsborough River between Fowler and Fletcher Avenues and north of Fletcher Avenue, respectively. The floodplains associated with these waterways consist of soils with a high clay and organic content. The SHGWT is generally found above ground.

The soils found along I-75 north of the Hillsborough River in the vicinity of the Bruce B. Downs Boulevard interchange are composed primarily of loose fine sand with clay content. Pockets of depressional areas are common along the mainline and are characterized by poor drainage and frequent flooding.

I-75 crosses over Cypress Creek near the north end of Hillsborough County. The Cypress Creek flood basin is west of the mainline. The soils present in the floodplains and drainage basins in the immediate vicinity of I-75 are clayey soils with some organic matter. The SHGWT is generally found above ground. South of the Hillsborough/Pasco County line, some natural drainage patterns are present that run east to west into the Cypress Creek basin. The soils are composed of surficial loose fine sands with a sandy to clayey sand subsoil. The SHGWT is at a depth of 24 inches bls for most of the year.



LEGEND	
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OL	- Open Land
UT	- Public/Utilities
REC	- Recreation
CON	Conservation

SOURCES: Pasco County 2015 Land Use Map;
Hillsborough County 2015 Land Use Map

I - 75 PD&E Study
 from south of Fowler Avenue to CR 54
 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 I
 WPI Seg. No: 258736 1 / FAP No: NH-75-1-(91)275

FUTURE LAND USE

Figure
3

I-75 passes over Cypress Creek for the second time in Pasco County. The floodplain in this area is generally broad and is approximately 0.5 miles long. The soils along I-75 generally have a sandy surficial soil and clayey subsoil, although some areas are composed of a clayey content. The SHGWT is generally found at the ground surface. The SR 56 interchange is located in the Cypress Creek flood basin. Pockets of deleterious (muck) material were encountered in the immediate vicinity of I-75 during the design and construction of the SR 56 interchange.

The soils found along I-75 from the SR 56 interchange to approximately 0.75 miles north are composed of loose fine sand to a depth of 80 inches. The SHGWT is estimated at a depth of 2 to 3.5 feet bls in most years. North of this section, I-75 passes through a 0.25-mile section of Cabbage Swamp. The soils found in this section have high clay and organic matter content and an above ground SHGWT. The soils along I-75 between Cabbage Swamp and the CR 54 interchange consist of loose fine sand to an approximate depth of 30 inches bls and clayey sand subsoil. The SHGWT is estimated to be at a depth of 10 inches bls. Some areas along I-75 mainline have soils that consist of surficial muck. These areas are oblong in shape, and are typically covered with hardwoods.

The Soils Map is shown in Figure 4.

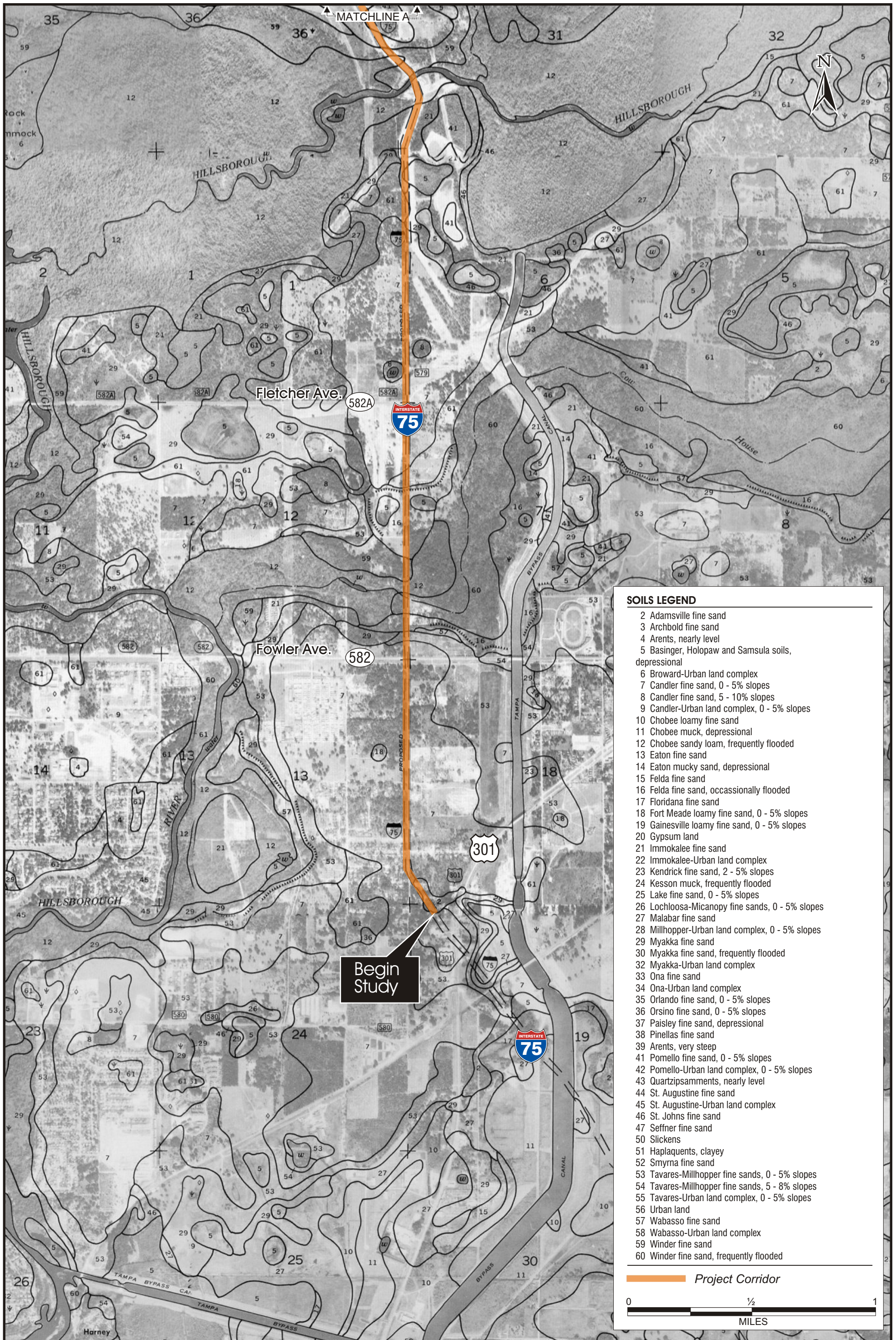
4.0 METHODOLOGY

A Level 1 Contamination Screening of the project corridor was conducted to determine the potential for contamination of the I-75 right-of-way from adjacent properties and business operations. Sites were evaluated for possible contamination risks to roadway right-of-way acquisition and potential construction activities. The evaluation included document and file research, coordination with the FDEP, site reconnaissance, and interviews with owners (where necessary) for potential petroleum and hazardous materials storage.

This CSER was prepared pursuant to the FHWA's Technical Advisory T 6640.8A, dated October 30, 1987, and in accordance with the FDOT's PD&E Manual, Part 2, Chapter 22, dated February 8, 1994, as further modified and clarified by the District Contamination Impact Coordinator.

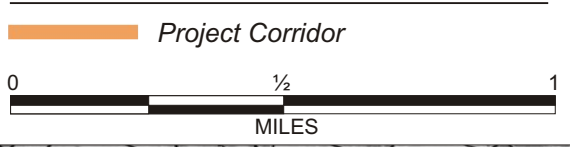
As an initial step to the contamination screening, an environmental database search was performed to identify potential hazardous materials and petroleum contamination sites that have been listed in the US Environmental Protection Agency (US EPA) and FDEP databases. An environmental database report that summarizes the findings of the search was prepared for the I-75 project corridor in October 2001. A copy of the environmental database is included in Appendix A.

The sites identified in the environmental database search were then compared to potential contamination sites shown in the Final Contamination Screening Evaluation Report prepared for I-75 from South of SR 56 to North of SR 52 in Pasco County, Florida, December 2000 (CSER 2000). A number of sites, not included in the CSER 2000, were identified during the comparison.



SOILS LEGEND

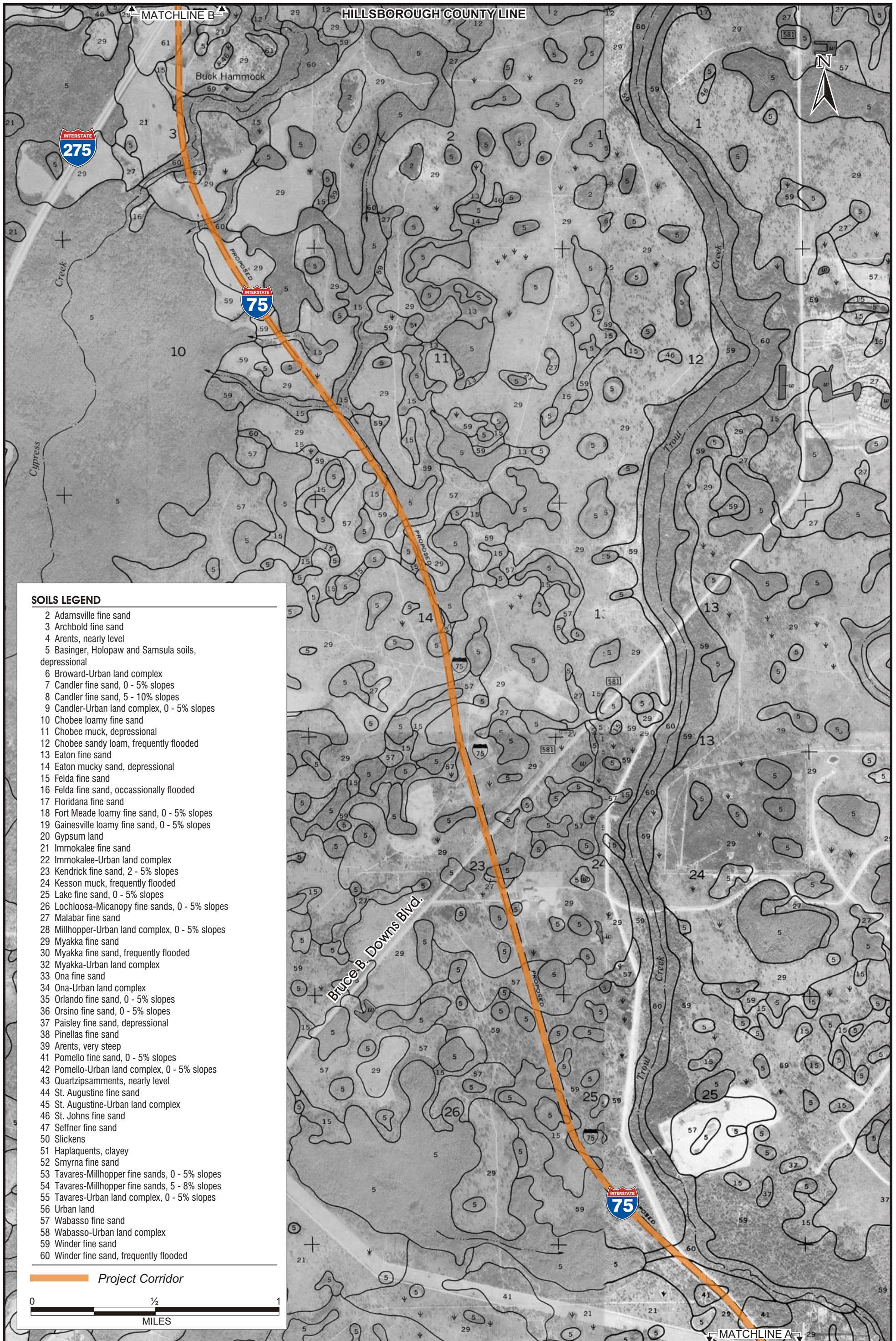
- 2 Adamsville fine sand
- 3 Archbold fine sand
- 4 Arents, nearly level
- 5 Basinger, Holopaw and Samsula soils, depressional
- 6 Broward-Urban land complex
- 7 Candler fine sand, 0 - 5% slopes
- 8 Candler fine sand, 5 - 10% slopes
- 9 Candler-Urban land complex, 0 - 5% slopes
- 10 Chobee loamy fine sand
- 11 Chobee muck, depressional
- 12 Chobee sandy loam, frequently flooded
- 13 Eaton fine sand
- 14 Eaton mucky sand, depressional
- 15 Felda fine sand
- 16 Felda fine sand, occasionally flooded
- 17 Floridana fine sand
- 18 Fort Meade loamy fine sand, 0 - 5% slopes
- 19 Gainesville loamy fine sand, 0 - 5% slopes
- 20 Gypsum land
- 21 Immokalee fine sand
- 22 Immokalee-Urban land complex
- 23 Kendrick fine sand, 2 - 5% slopes
- 24 Kesson muck, frequently flooded
- 25 Lake fine sand, 0 - 5% slopes
- 26 Lochloosa-Micanopy fine sands, 0 - 5% slopes
- 27 Malabar fine sand
- 28 Millhopper-Urban land complex, 0 - 5% slopes
- 29 Myakka fine sand
- 30 Myakka fine sand, frequently flooded
- 32 Myakka-Urban land complex
- 33 Ona fine sand
- 34 Ona-Urban land complex
- 35 Orlando fine sand, 0 - 5% slopes
- 36 Orsino fine sand, 0 - 5% slopes
- 37 Paisley fine sand, depressional
- 38 Pinellas fine sand
- 39 Arents, very steep
- 41 Pomello fine sand, 0 - 5% slopes
- 42 Pomello-Urban land complex, 0 - 5% slopes
- 43 Quartzipsamments, nearly level
- 44 St. Augustine fine sand
- 45 St. Augustine-Urban land complex
- 46 St. Johns fine sand
- 47 Seffner fine sand
- 50 Slickens
- 51 Haplaquents, clayey
- 52 Smyrna fine sand
- 53 Tavares-Millhopper fine sands, 0 - 5% slopes
- 54 Tavares-Millhopper fine sands, 5 - 8% slopes
- 55 Tavares-Urban land complex, 0 - 5% slopes
- 56 Urban land
- 57 Wabasso fine sand
- 58 Wabasso-Urban land complex
- 59 Winder fine sand
- 60 Winder fine sand, frequently flooded



I - 75 PD&E Study
 from south of Fowler Avenue to CR 54
 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 1
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SOILS MAP
 Hillsborough County

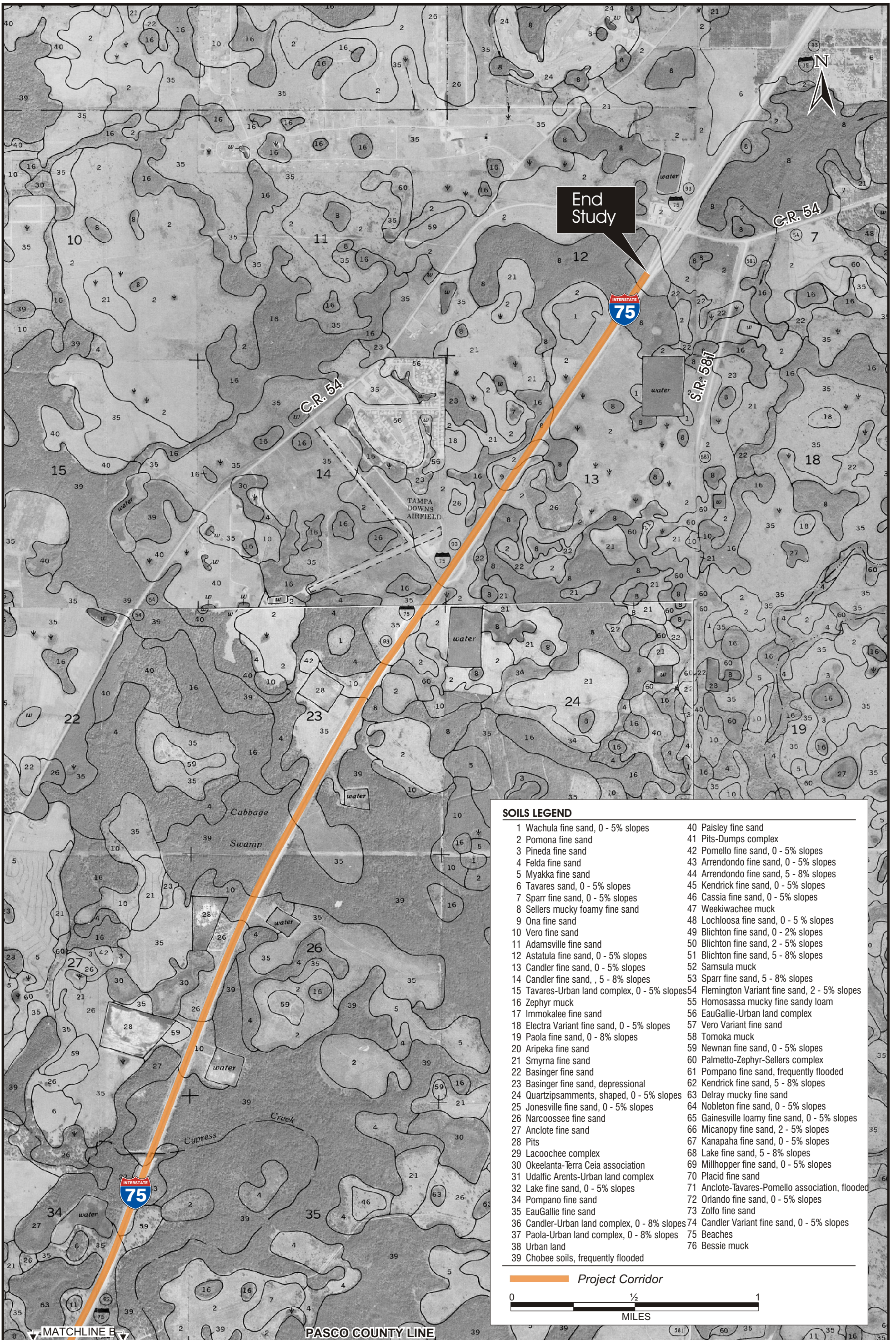
Figure
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 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 1
 WPI Seg. No: 258736 1 / FAP No: NH-75-1-(91)275

SOILS MAP
Hillsborough County

Figure
4
 (Continued)



SOILS LEGEND

1 Wachula fine sand, 0 - 5% slopes	40 Paisley fine sand
2 Pomona fine sand	41 Pits-Dumps complex
3 Pineda fine sand	42 Pomello fine sand, 0 - 5% slopes
4 Felda fine sand	43 Arrendondo fine sand, 0 - 5% slopes
5 Myakka fine sand	44 Arrendondo fine sand, 5 - 8% slopes
6 Tavares sand, 0 - 5% slopes	45 Kendrick fine sand, 0 - 5% slopes
7 Sparr fine sand, 0 - 5% slopes	46 Cassia fine sand, 0 - 5% slopes
8 Sellers mucky foamy fine sand	47 Weekiwachee muck
9 Ona fine sand	48 Lochloosa fine sand, 0 - 5% slopes
10 Vero fine sand	49 Blichton fine sand, 0 - 2% slopes
11 Adamsville fine sand	50 Blichton fine sand, 2 - 5% slopes
12 Astatula fine sand, 0 - 5% slopes	51 Blichton fine sand, 5 - 8% slopes
13 Candler fine sand, 0 - 5% slopes	52 Samsula muck
14 Candler fine sand, 5 - 8% slopes	53 Sparr fine sand, 5 - 8% slopes
15 Tavares-Urban land complex, 0 - 5% slopes	54 Flemington Variant fine sand, 2 - 5% slopes
16 Zephyr muck	55 Homosassa mucky fine sandy loam
17 Immokalee fine sand	56 EauGallie-Urban land complex
18 Electra Variant fine sand, 0 - 5% slopes	57 Vero Variant fine sand
19 Paola fine sand, 0 - 8% slopes	58 Tomoka muck
20 Aripeka fine sand	59 Newnan fine sand, 0 - 5% slopes
21 Smyrna fine sand	60 Palmetto-Zephyr-Sellers complex
22 Basinger fine sand	61 Pompano fine sand, frequently flooded
23 Basinger fine sand, depressional	62 Kendrick fine sand, 5 - 8% slopes
24 Quartzzipsammments, shaped, 0 - 5% slopes	63 Delray mucky fine sand
25 Jonesville fine sand, 0 - 5% slopes	64 Nobleton fine sand, 0 - 5% slopes
26 Narcoossee fine sand	65 Gainesville loamy fine sand, 0 - 5% slopes
27 Anclote fine sand	66 Micanopy fine sand, 2 - 5% slopes
28 Pits	67 Kanapaha fine sand, 0 - 5% slopes
29 Lacoochee complex	68 Lake fine sand, 5 - 8% slopes
30 Okeelanta-Terra Ceia association	69 Millhopper fine sand, 0 - 5% slopes
31 Udalfic Arents-Urban land complex	70 Placid fine sand
32 Lake fine sand, 0 - 5% slopes	71 Anclote-Tavares-Pomello association, flooded
34 Pompano fine sand	72 Orlando fine sand, 0 - 5% slopes
35 EauGallie fine sand	73 Zolfo fine sand
36 Candler-Urban land complex, 0 - 8% slopes	74 Candler Variant fine sand, 0 - 5% slopes
37 Paola-Urban land complex, 0 - 8% slopes	75 Beaches
38 Urban land	76 Bessie muck
39 Chobee soils, frequently flooded	

— Project Corridor

0 1/2 1
MILES

I - 75 PD&E Study
 from south of Fowler Avenue to CR 54
 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 1
 WPI Seg. No: 258736 1 / FAP No: NH-75-1-(91)275

SOILS MAP
Pasco County

Figure
4
 (Continued)

Site visits were conducted in October 2001, August 2002 and February 2003. Telephone and on-site interviews were conducted, as necessary. Historical aerial photography for the years 1966, 1972, 1991, 1994, and 2000 for Hillsborough and Pasco Counties were reviewed to determine the land use changes. The Tampa City Directories for years 1971, 1976, 1979, 1983, 1988, 1993, 1997, and 1999, and the Zephyrhills City Directory for the year 1969 (only record available) were researched to determine the land use history of the sites. The Hillsborough and Pasco County Property Appraisers records were used to verify ownership.

FDEP and site specific files were researched and support documentation is referenced throughout this report. Data sources (recommended in the FDOT PD&E Manual) were used to record the findings for each facility evaluated and to assist in making alignment recommendations.

4.1 Environmental Database Search

An environmental database search was conducted in October 2001 to identify sites within 0.25 miles of the I-75 project corridor that contain suspected or documented hazardous materials or petroleum contamination. The database search utilized a geographic information system integrated database that includes both state and federal sites.

The following US EPA and FDEP databases were researched during the screening process:

US EPA

1. National Priorities List (NPL), July 20, 2001 - The NPL was devised to prioritize sites for the purpose of taking remedial action as funded by the Hazardous Waste Substance Superfund program, (initially established under the Comprehensive Environmental Response, Compensation and Liability Act of 1980).
2. Comprehensive Environmental Response, Compensation and Liability Information System List (CERCLIS), October 22, 2001 - This list contains facilities or locations that the US EPA is investigating to determine if an existing or threatened release of hazardous substance is present. The CERCLIS list contains sites that have been proposed for inclusion on the NPL, are actually on the NPL and/or are in the screening and assessment phase for possible inclusion on the NPL.
3. No Further Remedial Action Planned List (NFRAP), October 23, 2001 – As of February 15, 1995, CERCLIS no longer includes sites that the US EPA has assessed and designated as a No Further Remedial Action Planned site. A NFRAP designation means, to the best of US EPA's knowledge, the US EPA (or its agent) has completed assessment activities at the site, and has determined no further steps to list this site on the NPL will be taken unless information indicating this decision was not appropriate or other considerations make a recommendation for listing appropriate at a later time.
4. Emergency Response Notification System List (ERNS), July 11, 2001 - The ERNS list is a database used to store information on the notification of oil

discharges and hazardous substance releases. This report is a compilation of data from 1987 to present.

5. Resource Conservation and Recovery Act Information System List (RCRIS), August 13, 2001 - This list identified those facilities or locations that have notified the US EPA of their activities relative to the handling of hazardous wastes.
6. RCRIS National Oversight Database Handlers With Corrective Action Activity (CORRACTS), July 13, 2001 - This database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity.
7. Hazardous Waste Data Management System List (HWDMS), February 1, 1991 - The HWDMS list is a historical database once maintained by the US EPA which identified those facilities or locations that have notified the US EPA of their activities relative to the handling of hazardous wastes.
8. Facility Index Data System List (FINDS), November 23, 1998 - The FINDS list is a historical database that identifies facilities and/or locations that are subject to regulation under certain US EPA programs, due to operations conducted at these sites.
9. Toxic Release Inventory System List (TRIS), February 28, 2001 - The TRIS list identifies those facilities that are required to submit annual reports relative to the estimated release of toxic chemicals to the environment.
10. RCRA Notifiers With No Treatment, Storage and/or Disposal Activities (NONTSD), July 23, 2002 - This report includes records identified in the study area that are not listed as a TSD (hazardous waste facilities involved in the Treatment, Storage and Disposal) facility (including large-quantity generators, small-quantity generators, transporters and any other designation).

FDEP

11. Storage Tanks Report (TANKS), July 26, 2001 - This report identifies those facilities or locations that have registered aboveground and underground petroleum fuel storage tanks pursuant to the notification requirements found in applicable chapters of the Florida Administrative Code. This report also contains facilities or locations that have registered with the FDEP as current and former dry cleaning operations.
12. State Funded Action Sites List (SFAS), October 29, 2001 - This list contains facilities and/or locations that have been identified by the FDEP as having known environmental contamination and are currently being addressed through state funded cleanup action.
13. Petroleum Contamination Tracking System Report (PCTS), August 8, 2001 - This list identifies facilities and/or locations that have notified the FDEP of a possible release of contaminants from petroleum storage systems.
14. Florida Sites List (SITES), April 25, 1995 - The historical database, once maintained by the FDEP, contains facilities or locations that have been identified

as having known or suspected environmental contamination. According to the FDEP, this list has not been updated since 1989. (The SITES list was last updated by EDM on April 25, 1995.)

15. Solid Waste Facilities List (SLDWST), August 16, 2001 - This list identifies locations that have been permitted to conduct solid waste landfilling activities or other waste handling activities such as those conducted at transfer stations. Sites handling bio-hazardous wastes are also included on this list.
16. Hazardous Waste Compliance & Enforcement Tracking System Report (COMHAZ), May 9, 2001 - This report identifies facilities or locations that have notified the FDEP of their activities relative to the handling of hazardous wastes.

4.2 FDEP Petroleum Cleanup Programs

The Early Detection Incentive (EDI) program was established by the Florida Legislature under the State Underground Petroleum Environmental Response Act of 1986. In general, EDI was designed to encourage early detection, reporting and cleanup of contamination resulting from leaking underground storage tanks (USTs). Under the EDI program, a state contractor completes all cleanup tasks; the facility is in the reimbursement program if the responsible party wishes to receive reimbursement for monies expended. The FDEP Bureau of Waste Cleanup is required to score all facilities that have been found eligible for funding assistance through EDI. The score is higher for facilities at which contamination has a greater potential effect. The facility with the highest score has the first priority for cleanup.

The Florida Legislature created the Abandoned Tank Restoration Program (ATRP) in response to the need to provide financial assistance for cleanup of sites that have abandoned petroleum storage systems. The term "abandoned petroleum storage system" is defined by the Florida Legislature as any petroleum storage system that has not stored petroleum products for consumption, use or sale since March 1, 1990. In order to be eligible for the program, petroleum storage systems from which a discharge occurred must be closed in accordance with FDEP rules prior to an eligibility determination. An application must be submitted to the FDEP by June 30, 1996, certifying that the system has not stored petroleum products for consumption, use or sale at the facility since March 1, 1990.

The Florida Petroleum Liability and Restoration Insurance Program (FPLRIP) was created by the Florida Legislature to provide restoration funding assistance to facilities regulated by the FDEP's petroleum storage tank rules. To implement the program, the FDEP may contract with an insurance company, a reinsurance company or other insurance consultant to issue third-party liability policies that meet the federal financial responsibility requirements of 40 Code of Federal Regulations (C.F.R.) s. 280.97, subpart H. A site at which an incident has occurred shall be eligible for restoration if the insured is a participant in the third-party liability insurance program or otherwise meets applicable financial responsibility requirements. After July 1, 1993, the insured must also provide the required excess insurance coverage or self-insurance for restoration to achieve the financial responsibility requirements of 40 C.F.R. s. 280.97, subpart H.

The Florida Legislature created the Petroleum Cleanup Participation Program (PCPP) to implement a cost-sharing cleanup program to provide rehabilitation funding assistance for all property contaminated by discharges of petroleum or petroleum products occurring before

January 1, 1995. The facility or operator is required to provide a co-payment in a pre-approved site rehabilitation agreement. Eligibility is subject to an annual appropriation from the Inland Protection Trust Fund. Additionally, funding for eligible sites is contingent upon annual appropriation in subsequent years.

4.3 Site Ratings

The FDOT's hazardous materials rating system was used to rate the identified sites. The ratings include NO, LOW, MEDIUM, and HIGH. The ratings are generally defined as follows:

NO. After a review of available information, there is nothing to indicate contamination would be a problem. It is possible that contaminants could have been handled on the property; however, all available information (FDEP reports, monitoring wells, water and soil samples, etc.), indicate problems should not be expected. Examples: a gasoline station that has been closed and has a closure assessment or contamination assessment documenting that there is no contamination remaining; or a wholesale or retail outlet that handles hazardous materials in sealed containers which are never opened while at this facility, such as spray cans of paint at a drug store.

LOW. The former or current operation has a hazardous waste generator identification number, or deals with hazardous materials; however, based on all available information, there is no reason to believe there would be any involvement with contamination. This is the lowest rating a gasoline station operating within current regulations could receive. This could also be applied to a retail hardware store that blends paint.

MEDIUM. After a review of all available information, indications are found (reports, Notice of Violation, consent orders, etc.) that identify known soil and/or water contamination and that the problem does not need remediation, is being remediated (i.e., air stripping of the groundwater, etc.) or that continued monitoring is required.

HIGH. After a review of all available information, there is a potential for contamination problems. Further assessment will be required after alignment selection to determine the actual presence and/or levels of contamination and the need for remedial action.

5.0 PROPOSED IMPROVEMENTS

The study alternatives considered for the I-75 project were construction alternatives because the No-Build, Multimodal and TSM Alternatives do not meet the future transportation needs of the region. Without improvements to I-75, transportation congestion will increase as the level of service falls to an unacceptable level, and emergency response times and social services transport eventually deteriorate.

5.1 Typical Sections

The roadway typical sections in each segment are described below. For further details on the bridge typical sections refer to the Preliminary Engineering Report.

5.1.1 Segment A - Fowler Avenue to Fletcher Avenue

The existing roadway geometry is in transition from south of Fowler Avenue to Fletcher Avenue. Generally speaking, improvements would include adding one travel lane and one auxiliary lane in each direction of travel. A minimum 64-foot median would be provided. The transitions would minimize effects to existing ramps, preserve the 64-foot median, and set the alignment to avoid effects to the large sinkhole situated in the center of the median north of Fowler Avenue. In this segment, I-75 would have six 12-foot travel lanes (three in each direction), two 12-foot auxiliary lanes (one in each direction), one merge/diverge ramp lane for the on- and off-ramp (in each direction), and 12-foot inside and outside shoulders (10 feet paved). No graphical typical section figure is provided for the I-75 mainline in Segment A because there is no continuous typical section in the segment.

5.1.2 Segment B – Fletcher Avenue to 3,000 Feet North of the Hillsborough River

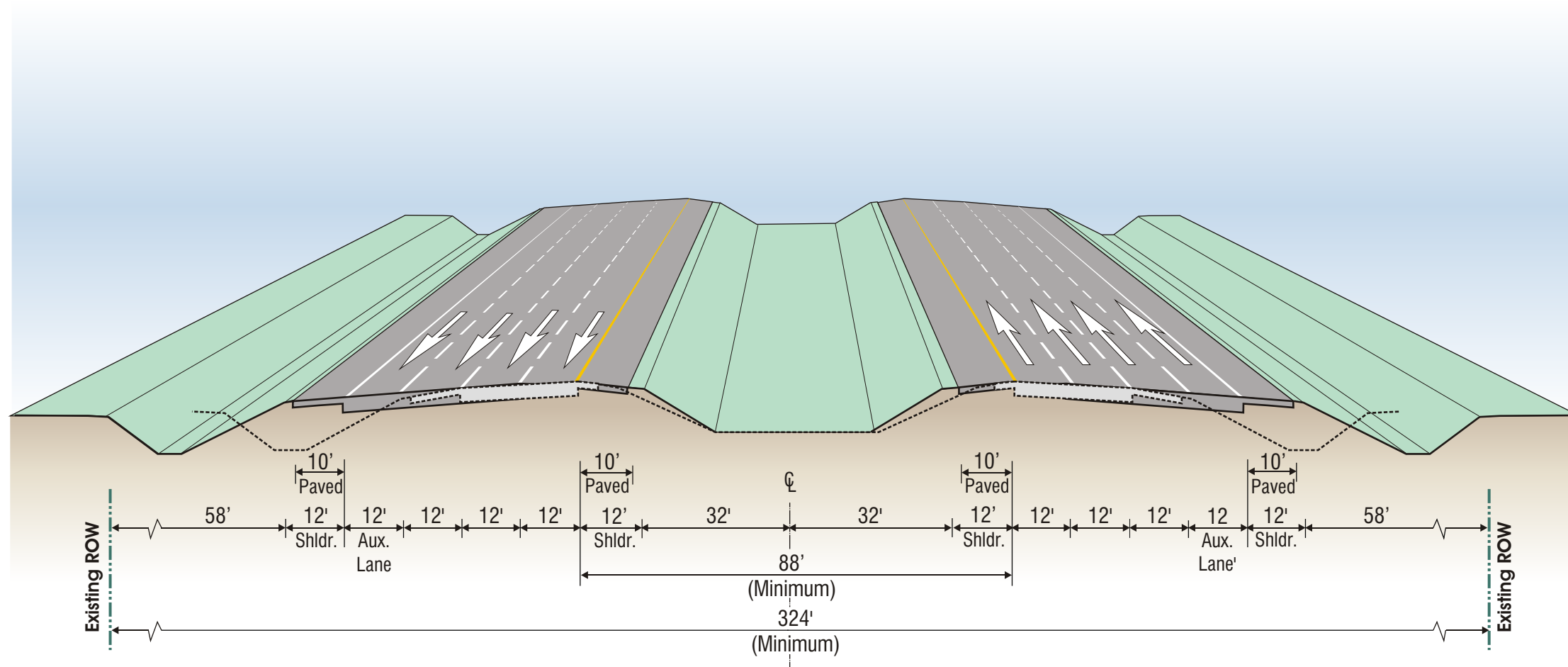
In this segment, two typical sections would be used. Both typical sections would add an additional through lane and an auxiliary lane in each direction.

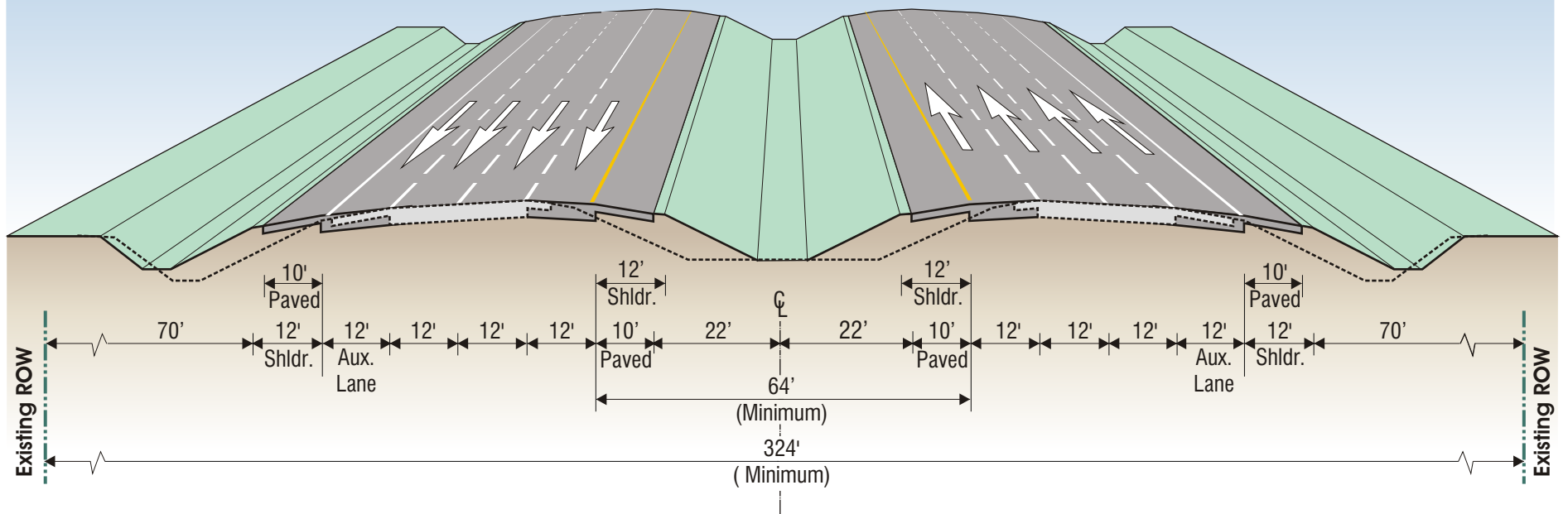
From Fletcher Avenue to just south of the Hillsborough River, the widening would be to the outside to avoid effects to the sinkhole located north of Fowler Avenue. The facility in this segment would include three through lanes and an auxiliary lane in each direction of travel. The median width varies with a minimum width of 88 feet.

From south of the Hillsborough River to 3,000 feet north of the Hillsborough River, the through lane would be constructed to the inside and the auxiliary lane to the outside of the existing lanes. The median would be a minimum of 64 feet wide. In segment B, I-75 would have six 12-foot travel lanes (three in each direction), two 12-foot auxiliary lanes (one in each direction) and 12-foot inside and outside shoulders (10 feet paved). The proposed typical sections for Segment B are shown in Figure 5 and Figure 6.

5.1.3 Segment C – 3,000 Feet North of the Hillsborough River to Bruce B. Downs Boulevard

From approximately 3,000 feet north of the Hillsborough River to Bruce B. Downs Boulevard, the typical section for Segment C would be a continuation of that provided for the northern portion of Segment B (six travel lanes with two auxiliary lanes). See Figure 6.





I - 75 PD&E Study
 from south of Fowler Avenue to CR 54
 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 1
 WPI Seg. No: 258736 1 / FAP No: NH-75-1-(91)275

**PROPOSED SIX-LANE TYPICAL SECTION WITH AUXILIARY LANES -
 NORTH PORTION OF SEGMENT B & C
 FROM 3000' NORTH OF THE HILLSBOROUGH RIVER TO BRUCE B. DOWNS BOULEVARD
 Six General Purpose Lanes with Two Auxiliary Lanes**

Figure
6

5.1.4 Segment D – Bruce B. Downs Boulevard to the I-275 Interchange

From Bruce B. Downs Boulevard to the I-275 interchange, a six-lane typical section would be provided by adding one lane to the median in each direction. In this segment, the typical section would consist of six 12-foot travel lanes (three in each direction), 12-foot inside and outside shoulders (10 feet paved) and a 64-foot median. The typical section for Segment D is shown in Figure 7.

5.1.5 Segment E – I-275 Interchange to SR 56

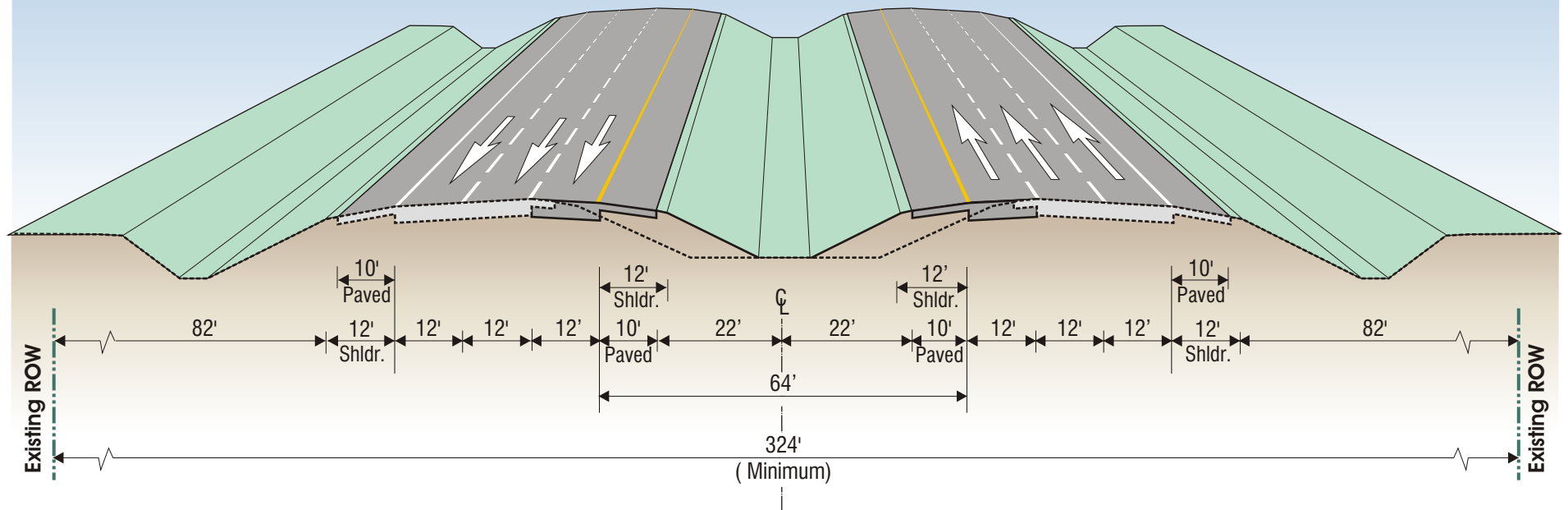
From the I-275 interchange to SR 56, the typical section that was selected was determined by the interchange configuration that was selected for I-75/I-275. The typical section for the I-275/I-75 interchange would consist of six 12-foot travel lanes (three in each direction), three 12-foot auxiliary lanes in the southbound direction, one 12-foot auxiliary lane in the northbound direction, 12-foot shoulders (10 feet paved) and a 64-foot median. A two-lane ramp would run parallel to the mainline. This typical section is shown in Figure 8.

5.1.6 Segment F – SR 56 to CR 54

In this segment, I-75 would have six 12-foot travel lanes (three in each direction), two 12-foot auxiliary lanes (one in each direction) and 12-foot inside and outside shoulders (10 feet paved). The median would be 64 feet wide. Two typical sections would be used from the SR 56 interchange to CR 54.

Both south and north of the North Tampa Aero Park Airport, one through lane and one auxiliary lane would be provided for each direction of travel to the outside of the existing lanes. This would preserve the 64-foot median. This typical section is provided in Figure 9.

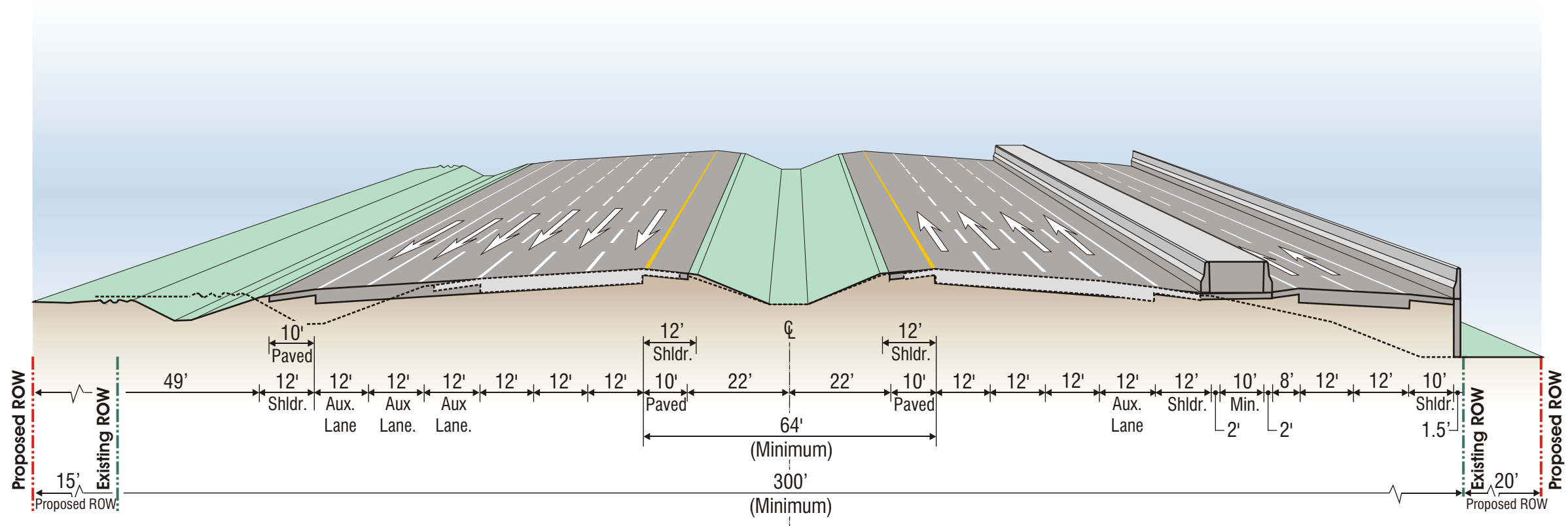
In the vicinity of the airport, a typical section that holds the western edge of pavement constant would be used. This would avoid effects to the airport that already has a displaced threshold due to glide slope constraints. This typical section would widen in the existing median for the southbound direction. For the northbound direction, new construction would occur to the outside of the existing lanes. The two existing northbound lanes would be demolished. This typical section is provided in Figure 10.

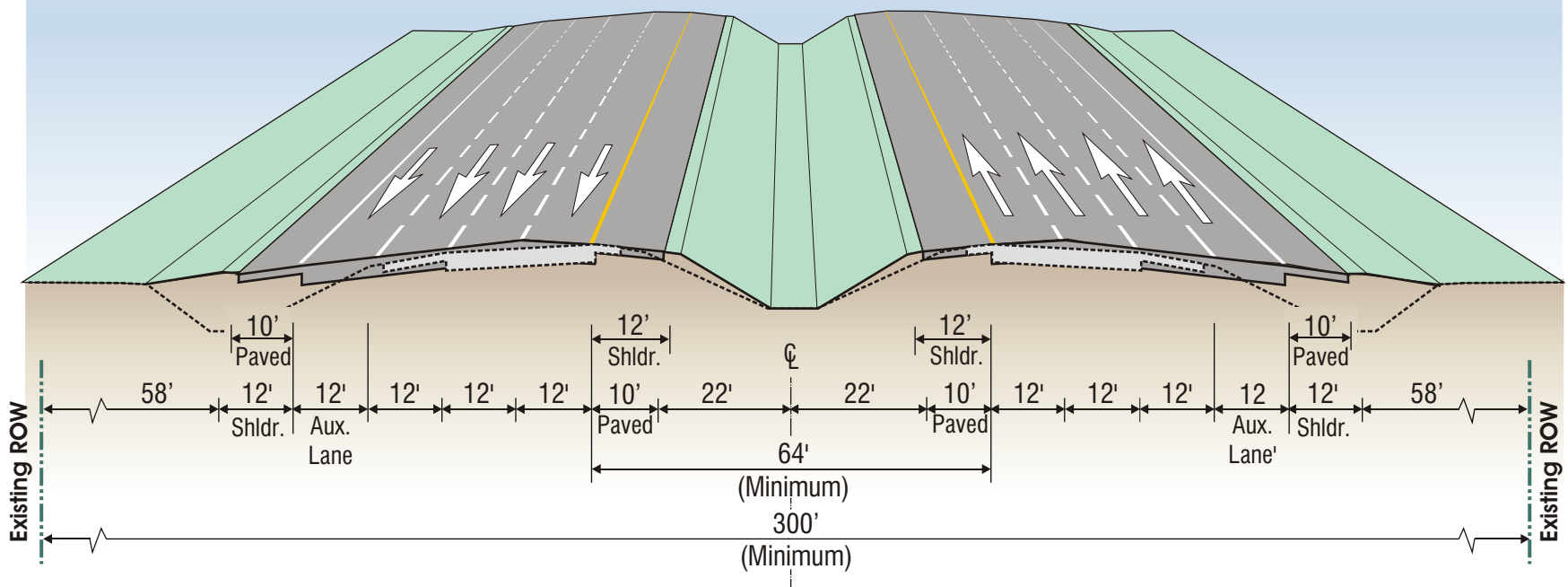


I - 75 PD&E Study
 from south of Fowler Avenue to CR 54
 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 1
 WPI Seg. No: 258736 1 / FAP No: NH-75-1-(91)275

PROPOSED SIX-LANE TYPICAL SECTION - SEGMENT D
FROM BRUCE B. DOWNS BOULEVARD TO THE I-75/I-275 INTERCHANGE
Six General Purpose Lanes

Figure
7

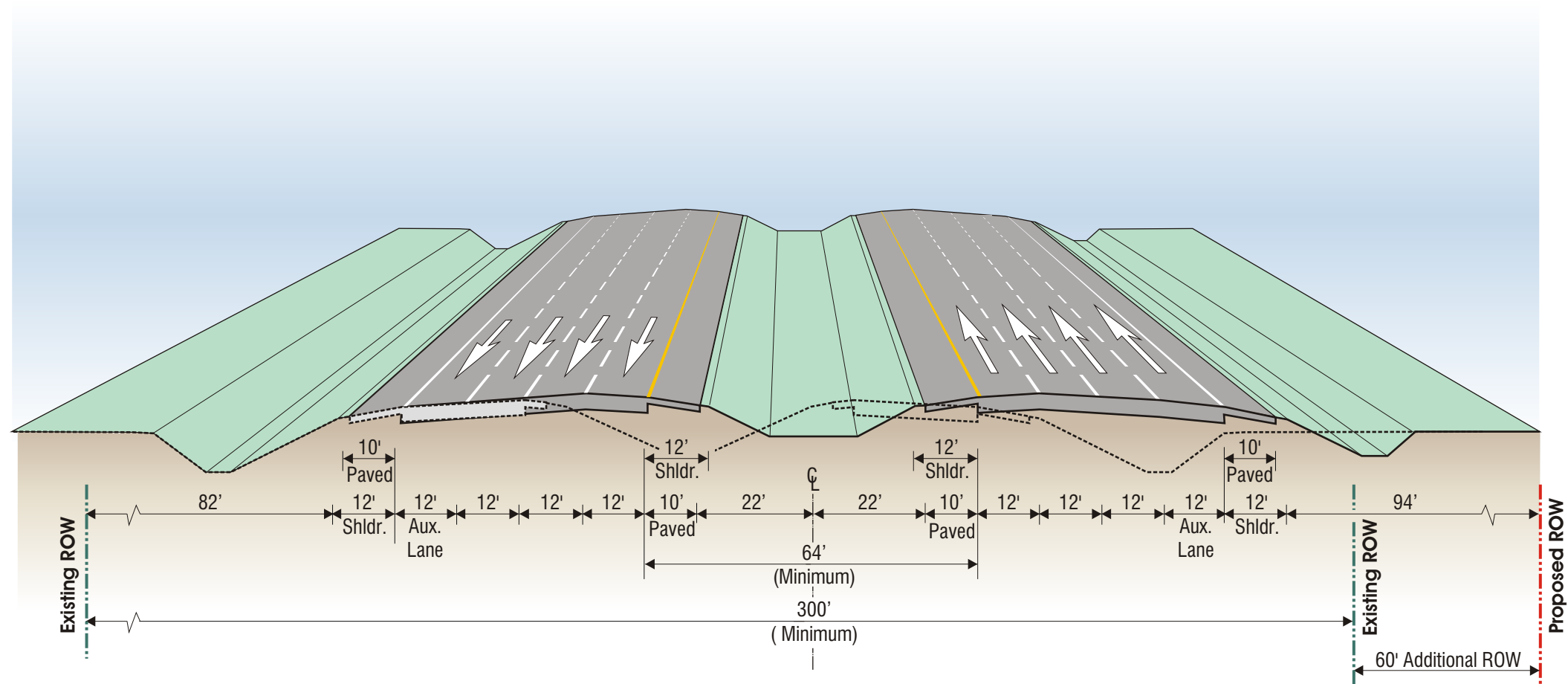




I - 75 PD&E Study
 from south of Fowler Avenue to CR 54
 Hillsborough and Pasco Counties
 WPI Seg. No: 408459 1 / FAP No: 0751 105 1
 WPI Seg. No: 258736 1 / FAP No: NH-75-1-(91)275

PROPOSED SIX-LANE TYPICAL SECTION WITH AUXILIARY LANES- SEGMENT F
NORTH AND SOUTH OF THE AIRPORT FROM SR 56 TO SOUTH OF CR 54
 Six General Purpose Lanes with Two Auxiliary Lanes

Figure
 9



5.2 Alignments

Generally, the proposed improvements follow the existing alignment. The only major deviation is in the vicinity of the North Tampa Aero Park Airport. To hold the existing western edge of pavement constant, a 0°20'0" curve is introduced at Station 724+40.80 and continues for 1,982.52 feet. The alignment is then tangent to the existing alignment for approximately 6,229 feet to Station 811+53.53. At this point, a 0°45'0" deflection is used to bring the alignment back to match the existing alignment at Station 829+98.54, a distance of approximately 1,849 feet.

5.3 Interchanges

The proposed interchange improvements are described below.

5.3.1 Fowler Avenue

This interchange consists of a cloverleaf/directional configuration with two cloverleaf access ramps to and from the north of I-75. A fly-over ramp carries northbound I-75 traffic to westbound Fowler Avenue. The only improvement to this interchange would be the widening of this fly-over ramp from one lane to two lanes.

5.3.2 Fletcher Avenue

This interchange is a diamond configuration with a loop ramp in the northeast quadrant providing access to both east and westbound Fletcher Avenue from I-75. Improvements would include widening the loop ramp from one lane to two lanes. Dual left-turn storage (to eastbound Fletcher Avenue) would be provided. The southbound on-ramp would be widened to two lanes for a greater distance, but would still taper to one lane before merging with the I-75 mainline.

5.3.3 Bruce B. Downs Boulevard

The improvements to Bruce B. Downs Boulevard were evaluated and documented in the I-75/CR 581 IMR. These improvements were summarized in the existing conditions section of the Preliminary Engineering Report.

5.3.4 I-275

Three alternatives were considered for this interchange. All three involved replacing the I-275 northbound structure over I-75. The new structure would be located on the north side of the existing structure and would be lengthened to accommodate the I-75 widening to three lanes in each direction. Each of the alternatives would provide six lanes in the southbound direction that would split into three lanes southbound lanes for I-275 and three southbound lanes for I-75.

Option 3 would replace the existing two-lane I-275 northbound bridge with a longer bridge that would provide two through lanes and a one lane off-ramp to SR 56. The off-ramp to SR

56 from I-275 would begin before the I-275 bridge and run along I-275, join with a ramp from I-75 to make a two-lane ramp that extends parallel to the I-75 mainline to SR 56.

An off-ramp from I-75 to SR 56 would begin south of the I-275 overpass bridge and join with the I-275 ramp before passing under the County Line Road bridge. The two-lane ramp would run parallel to the I-75 mainline to SR 56. Beginning the ramp south of the merge of I-75 and I-275 would eliminate the weaving between I-275 traffic proceeding northbound on I-75 and I-75 northbound traffic exiting at SR 56.

The two northbound through lanes of I-275 would join with the three northbound I-75 lanes. The five lanes would then transition to four lanes before the bridge over Cypress Creek.

5.3.5 SR 56

The SR 56 interchange features a diamond configuration. The only modification to the SR 56 interchange would be the relocation of the northbound off-ramp in Option 3.

6.0 PROJECT EFFECTS

The 24 facilities identified and evaluated within the I-75 project corridor for potential hazardous materials and petroleum involvement are listed in Table 1 and described below. The physical locations are shown in Figure 1 in Section 2.0.

**Table 1
Potential Hazardous Materials and Petroleum Sites**

Site No.	Facility Name & Location Facility ID #	Haz or Pet.	Database	Activity or Concern	Tanks Y/N	SIC Code	Distance from ROW (feet)		Risk Rating
							Exist.	Prop.	
SEGMENT A - Fowler Avenue to Fletcher Avenue									
1	Raulerson & Son, Inc. 10611 Raulerson Ranch Road Tampa, FL 33637 (813) 985-6886 Facility ID # 298736769	P	TANKS	<ul style="list-style-type: none"> agricultural fuel user 1 AST and 1 UST 	Y	5172	200	N/C	LOW
2	Morris Bridge Landfill Intersection of Morris Bridge Road and Fowler Avenue Tampa, FL 33612 EPA ID #FLD981748080 GMS ID #4029P8163	H	CERCLIS FINDS SLDWST	<ul style="list-style-type: none"> closed landfill black substance (possible iron bacteria) found in local potable wells 	N	4959	adjacent	N/C	MEDIUM
3	Mitchell Associates, Inc. 8432 East Fowler Avenue Tampa, FL 33637 (813) 985-2642 Facility ID # 298736726	P	TANKS	<ul style="list-style-type: none"> fuel user/non-retail all tanks were removed (1 AST and 2 USTs) 	N	5172	adjacent	N/C	NO
4	Tampa Towers, Inc. Southeast of the I-75 and Fletcher Avenue Interchange Site ID #FL1299 FCC # 1033601	P	Field review	<ul style="list-style-type: none"> communication tower abandoned AST (rusted) 	Y	3669 5172	adjacent	N/C	LOW
SEGMENT B - Fletcher Avenue to 3,000 Feet North of the Hillsborough River									
5	Motor Vehicle Accident Fuel Spill I-75 north of Fletcher Avenue Temple Terrace, FL Incident # 19223	P	ERNS	<ul style="list-style-type: none"> automobile accident gasoline spill in the I-75 median 	N	4789 5172	median	N/C	LOW
6	Bioxide AST Hidden River Corporate Center Tampa, FL	H	Field review	<ul style="list-style-type: none"> 1 AST containing bioxide used for odor control at the sewer pump station 	Y	4952	500	N/C	NO
7	SSE Transportation Co. Fuel Spill I-75 north at the bridge over the Hillsborough River Tampa, FL Incident # 178562	P	ERNS	<ul style="list-style-type: none"> tractor trailer ruptured fuel tank 	N	4789 5172	within	N/C	LOW
8	Abandoned Drums Hillsborough River along I-75 Incident # 104149	P	ERNS	<ul style="list-style-type: none"> two 55 gallons waste oil drums found in the river 	N	5172	adjacent	N/C	LOW
SEGMENT C - 3,000 Feet North of the Hillsborough River to Bruce B. Downs Boulevard									
9	Tampa Electric Company Sprint Tower West of I-75 mainline, south on Tampa Palms Boulevard East Site ID #TA03XC037	P	Field review	<ul style="list-style-type: none"> communication tower 	N	3669	25	N/C	NO
10	Morris Bridge Water Treatment Plant 17101 CR 581 (Bruce B. Downs Boulevard), Tampa, FL Facility ID # 298624903 GMS ID # 6290327	H/P	TANKS	<ul style="list-style-type: none"> 2 USTs removed 3 ASTs in service 	Y	4941 5172	adjacent	N/C	LOW
SEGMENT D - Bruce B. Downs Boulevard to the I-275 Interchange									
11	7-11 Food Store #33019 5102 Pointe of Tampa Way Tampa, FL Facility ID # 299804628	P	TANKS	<ul style="list-style-type: none"> retail gasoline station 2 USTs in service 	Y	5172	adjacent	N/C	LOW
12	USAA 17200 Commerce Park Blvd. Tampa, FL 33647 Facility ID # N/A	P	Field review	<ul style="list-style-type: none"> insurance company 1 AST 	Y	5172	185	N/C	LOW

**Table 1
Potential Hazardous Materials and Petroleum Sites**

Site No.	Facility Name & Location Facility ID #	Haz or Pet.	Database	Activity or Concern	Tanks Y/N	SIC Code	Distance from ROW (feet)		Risk Rating
							Exist.	Prop.	
13	Cellular Telephone Tower NW quadrant of I-75 and Bruce B. Downs Boulevard interchange	P	Field review	• communication tower	N	3669	within	N/C	NO
14	Crown and Castle International Corporation Tower SW quadrant of I-75/County Line Road Site ID # 813765	P	Field review	• communication tower	N	3669	75	N/C	NO
SEGMENT E - I-275 Interchange to SR 56									
15	Former Construction Staging Area SE of the I-75 and SR 56 interchange	H	Field review	• construction debris • 1 AST removed	N	1611	adjacent	N/C	NO
SEGMENT F - SR 56 to CR 54									
16	Old Wesley Chapel Waste Water Treatment Plant 26400 Florida Power Road Zephyrhills, FL 33544 Facility ID # N/A	H	Field review	• closed due to compliance enforcement	N	4952	325	N/C	LOW
17	Tampa North Aero Park 4241 Birdsong Boulevard Lutz, FL 33549 Facility ID # 299400278	P	Field review	• 6 ASTs in service	Y	5172	800	N/C	LOW
18	Citrus Country Shell 28009 CR 54 Zephyrhills, FL 33544 Facility ID # 518515016	P	TANKS PCTS	• retail gasoline station • 1 UST in service • contamination reported	Y	5172	190	N/C	MEDIUM
19	Texaco – Wesley Chapel 28014 CR 54 Zephyrhills, FL 33544 (813) 247-4731 Facility ID # 519046575	P	TANKS PCTS	• retail gasoline station • 3 USTs in service • contamination reported	Y	5172	200	N/C	MEDIUM
20	RaceTrac #407 28053 CR 54, Zephyrhills, FL 33543 (770) 431-7600 Facility ID # 519100181	P	TANKS	• retail gasoline station • 3 USTs in service	Y	5172	325	N/C	LOW
21	Citgo 27829 CR 54 Wesley Chapel, FL 33543 Facility ID # 518515078	P	TANKS PCTS	• retail gasoline station • 4 USTs in service • 1 UST removed • contamination reported	Y	5172	45	N/C	MEDIUM
22	Denny's – Master's Economy Inn 27807 CR 54 Wesley Chapel, FL 33543 Facility ID # 519201573	P	TANKS PCTS	• contamination reported	N	5172	260	N/C	MEDIUM
23	Amoco 27741 CR 54 Wesley Chapel, FL 33543 Facility ID # 518520035 EPA ID # FLD984211425	P	NONTSD TANKS PCTS	• retail gasoline station • 4 USTs in service • contamination reported	Y	5172	370	N/C	LOW
24	Circle K #7475 27707 CR 54 Wesley Chapel, FL 33543 Facility ID # 518520488 EPA ID # FLD984254748	P	COMHAZ RCRIS FINDS TANKS PCTS	• retail gasoline station • 4 USTs in service • contamination reported	Y	5172	1,800	N/C	LOW

Notes: UST – Underground Storage Tank
N/C – No change

AST – Aboveground Storage Tank

**Site No. 1 - Raulerson & Son, Inc.
10611 Raulerson Ranch Road**

This facility is a landscaping company located in the southeast quadrant of the Fowler Avenue interchange. The facility has been located here since at least 1987 and is listed on the FDEP TANKS Report as an agricultural user. One 1,000-gallon aboveground storage tank (AST) containing vehicular diesel was installed at this site in January 1989. One 500-gallon underground storage tank (UST) containing vehicular diesel was also installed (installation date is unknown). Both tanks are currently in service. The tanks are located approximately 200 feet from the I-75 right-of-way.

There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. Based on this information, this site was given a rating of LOW.

**Site No. 2 – Morris Bridge Landfill
Intersection of Morris Bridge Road and Fowler Avenue**

This facility is a closed Class 500 disposal facility located adjacent to the existing right-of-way in the northeast quadrant of the Fowler Avenue interchange in Temple Terrace, Hillsborough County, Florida. According to a Preliminary Contamination Assessment Report (CAR), January 1992, prepared by the Hillsborough County Department of Solid Waste for the FDEP, Hillsborough County opened the landfill in 1962 and operated it until it was closed in 1969. The landfill accepted residential, commercial and industrial solid waste. The quantity and types of solid waste are unknown. It was indicated in a preliminary assessment memorandum dated July 24, 1987, that the FDOT acquired a 3.85-acre parcel of the landfill in 1982 to construct the Fowler Avenue northbound on-ramps to I-75. Construction was initiated in May 1982 and by November 1982 on-site materials were excavated to allow placement of the highway pilings. These materials were later transferred to an off-site location. The Fowler Avenue northbound on-ramps cross the landfill site and a borrow pit is located within the I-75 right-of-way. The preliminary assessment also indicated that nearby residents could come into direct contact with potentially contaminated landfill runoff or contaminants in Cowhouse Creek.

According to a letter dated February 14, 2002, the Hillsborough County Solid Waste Management Department (SWMD) has been conducting groundwater monitoring activities at the landfill site since 1989. The current network of four groundwater monitoring wells and four domestic supply wells have been monitored on a semi-annual basis since 1996. No unusual changes in water quality have been observed in either the monitoring wells or the domestic supply wells during the period of record. Based on water qualities observed in these wells, the SWMD requested a reduction in the sampling frequency from a semi-annual to an annual schedule. It was indicated in the December 2001 analytical data collected for domestic supply wells (north of the landfill on 122nd Avenue) that iron exceeding the maximum contaminant level was detected in monitoring well MB-7D. In March 2002, the Environmental Protection Commission indicated that the SWMD did not verify the presence of a black substance in the private potable wells. The FDEP requested that the SWMD verify the presence of this substance during the next sampling event to determine if it is iron bacteria and to also provide trend analysis information related to the contaminants for the

currently tested wells on site as part of the supporting documentation for reduction of the sampling frequency.

During a site visit in August 2002, it was verified that monitoring well MB-7D is located approximately 150 feet east of the I-75 right-of-way. It is anticipated that the proposed alternative would widen I-75 to the inside from south of Fowler Avenue to 127th Avenue. Due to the proximity of the borrow pit and the ongoing sampling by the SWMD, this site was given a rating of MEDIUM.

Site photographs and support documentation are included in Appendix B.

**Site No. 3 – Mitchell Associates, Inc.
8432 East Fowler Avenue**

This facility was identified in the Environmental Data Management Report as being located at 8432 East Fowler Avenue, adjacent to the existing I-75 right-of-way. During a site visit in August 2002, it was observed that the site has been abandoned and is heavily vegetated. Evidence of the former facility was not found. The facility is listed in the FDEP TANKS Report as being a fuel user/non retail. The TANKS Reports indicates that one 500-gallon AST containing leaded gasoline and two 1,000-gallon USTs containing leaded gasoline were removed from this site. According to the FDEP, the tanks were removed on May 6, 1994. No additional information was available in the FDEP files regarding this facility. Mitchell Associates, Inc. was contacted on September 3, 2002 from the phone number listed in the TANKS Report. The representative indicated that the office had moved from the Fowler Avenue location “many years ago.” The representative believes that the former 8432 East Fowler Avenue address no longer exists. No information regarding the former tanks was available. It is anticipated that right-of-way would not be required from this property for the proposed project. Based on this information, this site was given a rating of NO.

**Site No. 4 - Tampa Towers, Inc.
Southeast of the I-75 and Fletcher Avenue Interchange**

This facility is a cellular telephone tower located southeast of the Fletcher Avenue interchange. This type of facility is usually involved with the use of petroleum products to power emergency generators. It is between the I-75 northbound lane and Old Morris Bridge Road. During a site visit in August 2002, a 10,000-gallon AST was found adjacent to the cellular tower, approximately 20 feet from the existing right-of-way. The AST was rusted and cut out at one end and AST did not contain any petroleum products. The soil around the AST did not appear to be disturbed.

There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. It is anticipated that right-of-way would not be required from this property for the proposed project. Based on this information, this site was given a rating of LOW.

Site photographs are included in Appendix B.

**Site No. 5 – Motor Vehicle Accident Fuel Spill
I-75 north of Fletcher Avenue**

According to the US EPA ERNS List, an automobile hit the I-75 median north of Fletcher Avenue and turned over on December 19, 1987. Approximately 2 gallons of gasoline spilled onto the soil within the I-75 median. The National Response Center received the report. The fire department responded and performed the necessary cleanup. It is anticipated that there would be no involvement from this spill associated with the proposed project. Based on this information, this site was given a rating of LOW.

**Site No. 6 – Bioxide AST
Hidden River Corporate Park**

One 2,500-gallon AST is located at the Hidden River Corporate Center, approximately 500 feet from the western edge of the I-75 existing right-of-way. The AST is constructed on top of a concrete pad adjacent to a sewage pump station. A stormwater retention pond is located approximately 50 feet from the AST. According to US Filter, the manufacturer of the tank and solution, the AST contains bioxide which is used for odor control at the sewage pump station. US Filter indicated that bioxide is non-hazardous, and the tank is not a regulated vessel under the Petroleum Storage Tank Program of the FDEP. The nearby stormwater retention pond has no involvement with this facility. There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. It is anticipated that right-of-way would not be required from this property for the proposed project. Based on this information, this site was given a rating of NO.

**Site No. 7 – SSE Transportation Company Fuel Spill
I-75 north at the bridge over the Hillsborough River**

According to the US EPA ERNS List, a semi-truck trailer went off the road, over the guardrail and ruptured its fuel tank on August 31, 1990. The fuel leaked into the Hillsborough River. The National Response Center and the US Coast Guard received the report. No information regarding cleanup was available. It is anticipated that there would be no involvement from this spill associated with the proposed project. Based on this information, this site was given a rating of LOW.

**Site No. 8 – Abandoned Drums
Hillsborough River along I-75**

According to the US EPA ERNS List, two 55-gallon drums containing waste oil were found sitting in the Hillsborough River on March 18, 1989. The National Response Center and the US Coast Guard received the report. The fire department indicated that the drums were upright and no further response was taken for this incident. The report does not indicate if the drums were removed. A site visit was conducted on February 2003 to investigate the areas or the I-75 right-of-way in the vicinity of the Hillsborough River crossing. The drums were not found and there was no visual evidence of soil or surface water petroleum contamination. It is anticipated that there would be no involvement from these drums associated with the proposed project. Based on this information, this site was given a rating of LOW.

**Site No. 9 - Tampa Electric Company Sprint Tower
West of I-75 mainline, south on Tampa Palms Boulevard East**

This facility is located approximately 25 feet from the western edge of the I-75 right-of-way along Tampa Palms Boulevard East. This type of facility is usually involved with the use of petroleum products to power emergency generators. The site visit conducted in August 2002 did not find any indication of hazardous material or petroleum involvement at the facility.

There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. It is anticipated that right-of-way would not be required from this property for the proposed project. Based on this information, this site was given a rating of NO.

**Site No. 10 - Morris Bridge Water Treatment Plant
17101 CR 581 (Bruce B. Downs Boulevard)**

This facility is a potable water treatment plant located adjacent to the existing right-of-way at the southeast quadrant of the Bruce B. Downs Boulevard interchange. The facility has been serving the New Tampa area since the 1970s. According to the FDEP TANKS Report, one 12,000-gallon AST containing diesel (emergency generator) and one 1,000-gallon AST containing unleaded gasoline were installed at this site on August 1, 1989. An additional 12,000-gallon AST containing diesel (emergency generator) was installed at this site in April 1995. The three ASTs are currently in service and are located approximately 265 feet from the I-75 right-of-way. One 12,000-gallon UST containing kerosene and one 1,000-gallon UST containing unleaded gasoline were removed from this site on July 1, 1978 and July 1, 1981, respectively. The facility also stores chlorine in an AST which is located approximately 325 feet from the I-75 right-of-way.

During a site visit in August 2002, the pavement around the ASTs was observed to be clean and no monitoring wells were found. There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. Based on this information, this site was given a rating of LOW.

**Site No. 11 – 7-11 Food Store #33019
5102 Pointe of Tampa Way**

This facility is a retail gasoline station located adjacent to the existing right-of-way in the northwest quadrant of the Bruce B. Downs Boulevard interchange. The facility has been located here since at least 1998. According to the FDEP TANKS Report, two USTs containing unleaded gasoline were installed at this site on January 1, 2002. Both USTs are currently in service.

During a site visit in August 2002, the concrete pads around the fuel island were observed to be clean. There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. Based on this information, this site was given a rating of LOW.

**Site No. 12 – USAA
17200 Commerce Park Boulevard**

This facility is a multi-story insurance company located in the northwest quadrant of the Bruce B. Downs Boulevard interchange. The facility has been located here since at least 1989. During a site visit in August 2002, one 2,000-gallon double-walled AST containing unleaded gasoline was observed in the USAA receiving area. It was situated approximately 185 feet from the I-75 right-of-way. The pavement around the AST was observed to be clean and no monitoring wells were found. There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. Based on this information, this site was given a rating of LOW.

**Site No. 13 – Cellular Telephone Tower
Northwest Quadrant of I-75 and Bruce B. Downs Boulevard Interchange**

This facility is a communication tower located within the right-of-way of the southbound off-ramp of I-75 to Bruce B. Downs Boulevard. This type of facility is usually involved with the use of petroleum products to power emergency generators. The site visit conducted in August 2002 did not find any indication of hazardous material or petroleum involvement at the facility.

There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. It is anticipated that right-of-way would not be required from this property for the proposed project. Based on this information, this site was given a rating of NO.

**Site No. 14 - Crown and Castle International Corporation Tower
Southwest Quadrant of I-75 and County Line Road**

This facility is a communication tower located approximately 75 feet from the western edge of the I-75 right-of-way, south of County Line Road. This type of facility is usually involved with the use of petroleum products to power emergency generators. The site visit conducted in August 2002 did not find any indication of hazardous material or petroleum involvement at the facility.

There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. It is anticipated that right-of-way would not be required from this property for the proposed project. Based on this information, this site was given a rating of NO.

**Site No. 15 – Former Construction Staging Area
Southeast Quadrant of the I-75 and SR 56 Interchange**

This property is located adjacent to the SR 56 right-of-way, southeast of the SR 56 interchange. According to the Pasco County Property Appraiser database, the property was purchased by the FDOT in 1998 and is classified as sewage disposal, waste lands and swamp. During a site visit in August 2002, one 500-gallon AST was found south of the SR

56 right-of-way on the adjacent property. The AST was under a steel secondary containment. A trash container full of construction debris was also located on the adjacent property. The adjacent property, north of the FDOT property, is classified as grazing land Class V. During a subsequent site visit in August 2002, the AST had been removed from the site. During a site visit in February 2003, it was observed that the trash and construction debris has been removed from the site.

There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. It is anticipated that there would be no involvement from this former construction staging area associated with the proposed project. Based on this information, this site was given a rating of NO.

Site photographs are included in Appendix B.

**Site No. 16 – Old Wesley Chapel Waste Water Treatment Plant
26400 Florida Power Road**

The structure is located approximately 325 feet from the I-75 right-of-way in the northeast quadrant of the SR 56 interchange. Formerly owned by Pasco County, the current owner is SB Associates Limited Partnership. The first phase construction permit was granted in 1987. According to the Pasco County Property Appraiser records, this facility has been here since 1989. This facility is no longer operating and has been replaced by the Wesley Chapel Waste Water Treatment Plant located north of the CR 54 interchange (outside of the project limits). The Domestic Waste Water Compliance Inspector for Pasco County facilities indicated that the facility was closed, sometime after 1994, due to non-compliance with permit issues and State regulations. In one incident of non-compliance, reject wastewater (wastewater which did not pass treatment standards) was discharged and transported through reclaimed water (treated water) lines to other areas of the Pasco County wastewater disposal systems (irrigation sites and percolation ponds). The Domestic Waste Water Compliance Inspector for Pasco County facilities indicated that non-operational wastewater percolation ponds are located in close proximity to the project boundary. A review of FDEP files indicated that the Saddlebrook Village Ponds are located along the east side of I-75 approximately 360 feet to the east of the I-75 right-of-way and adjacent to the south of the northbound rest area. One of the ponds is owned by SB Associates limited Partnership. It is not known if the Saddlebrook Village Ponds received reject wastewater in the past.

The facility had one lined pond that was used for reject water. There were no unlined disposal ponds in service at the site. According to the FDEP, there is no record of overflow or inappropriate discharge from the lined pond, and no record of plant system overflow. A background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. Based on this information, this site was given a rating of LOW.

Site photographs and support documentation are included in Appendix B.

**Site No. 17 –Tampa North Aero Park
4241 Birdsong Boulevard**

This facility is a privately owned 20-acre airport which provides flight instruction, Cessna pilot and Federal Aviation Administration testing. It is accessible from CR 54, west of I-75 near the southbound I-75 rest area. The facility has been located here since at least 1975. During a site visit in August 2002, two 200-gallon ASTs containing diesel (used for emergency generators) were found behind the Chevron building. Two 30,000-gallon ASTs containing jet fuel and two 500-gallon ASTs containing diesel and unleaded gasoline were located west of an office building. The two 500-gallon ASTs are fully contained. The ASTs are located approximately 800 feet from the I-75 right-of-way. The fuel island is situated approximately 750 feet from the I-75 right-of-way.

There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did not reveal the presence of any documentation that would support the potential for contamination involvement. Based on this information, this site was given a rating of LOW.

**Site No. 18 – Citrus Country Shell (Former Oakley Groves, Inc. Shell Oil)
28009 CR 54**

This facility is a retail gasoline station and convenience store located in the northeast quadrant of the CR 54 interchange. In an Addenda to a CAR, November 26, 1991, it was indicated that the former Oakley Groves facility conducted a citrus packing business in addition to selling fuel. The chemicals that were stored on site associated with the packing business did not pose an environmental threat to the subsurface. The petroleum products stored in the USTs included different grades of unleaded gasoline and diesel fuel. According to the FDEP TANKS Report, one 15,000-gallon UST containing unleaded gasoline was installed at this site on July 1, 1996. The UST is currently in service and is located approximately 190 feet from the I-75 right-of-way. One 10,000-gallon UST containing vehicular diesel, two 10,000-gallon USTs containing unleaded gasoline and one 10,000-gallon UST containing leaded gasoline were removed from this site on February 1, 1993.

According to the FDEP PCTS Report, an incident of contamination was reported for this site on July 19, 1990. The facility was found eligible for the EDI program on September 27, 2001. A Level 1 and 2 Environmental Assessment of the Oakley Groves Shell Oil site was conducted in December 1990. Results of the groundwater sampling program indicated that excessive petroleum related contamination was detected in several monitoring wells. The horizontal extent of the petroleum contaminant plume is primarily localized in the vicinity of the UST area and to the southeast, towards CR 54. A Remedial Action Plan (RAP) was approved for the facility. As of September 1993, it was proposed that the effluent be directed to the north of the facility into a wetland area owned by the facility owner.

During a site visit in August 2002, the concrete pads around the fuel island were observed to have minimal pavement staining. No remediation towers were present, but five monitoring wells were located on site. Based on this information, this site was given a rating of MEDIUM.

Site photographs and support documentation are included in Appendix B.

**Site No. 19 – Texaco – Wesley Chapel
28014 CR 54**

This facility is a retail gasoline station and car wash located in the southeast quadrant of the CR 54 interchange. The facility has been located here since at least 1990, when it opened and operated as Gas Kwick #49 (FDEP Facility No. 519046575). According to the FDEP TANKS Report, three 10,000-gallon USTs containing unleaded gasoline were installed at this site on May 1, 1990. All three USTs are currently in service and are located approximately 200 feet from the I-75 right-of-way.

According to the FDEP PCTS Report, an incident of contamination was reported for this site on June 13, 1991. The facility was found eligible for the FPLRIP program on February 26, 1992. A CAR was completed in February 1994 that indicated excessively contaminated soil was located north and east of the existing UST area. The source of the soil and groundwater contamination could not be determined, but did not appear to be the result of the existing product dispensing system. Based on the hydrogeological and chemical data included in the CAR, a RAP was approved by the FDEP in June 1996. The remedial action involved the pumping of groundwater from two recovery wells, treating the water by air stripping, discharging treated groundwater into the storm sewer, and no action on excessively contaminated soil in the vadose zone.

According to the November 2001 Statistical Inventory Reconciliation Report for the existing three USTs (includes the current month, previous month and two months prior), the test results were “pass.” Pass indicates that the calculated leak rate for the data set is less than the leak threshold and the minimum detectable leak rate is less than or equal to the certified performance standard. Results of the precision tank, line and line leak detector test of June 2000, indicated that the product lines are tight and the leak detectors are functioning properly. In a letter dated January 2002, it was indicated that the next tank upgrade event is set for 2005.

In a letter from the FDEP dated January 18, 2002, generalized comments were to be noted prior to the site entering into the Remedial Action Modification Plan Phase. During a site visit in August 2002, the concrete pads around the fuel island were observed to have medium staining. Approximately 16 monitoring wells were located on site and three were located off site. Based on this information, this site was given a rating of MEDIUM.

Site photographs and support documentation are included in Appendix B.

**Site No. 20 – RaceTrac #407
28053 CR 54**

This facility is a retail gasoline station located northeast of the CR 54 interchange. It is located east of Citrus Country Shell (Site No. 17). The facility has been located here since 1990. According to the FDEP TANKS Report, two 12,000-gallon USTs containing unleaded gasoline were installed at this site on December 1, 1990. One 20,000-gallon UST containing unleaded gasoline was installed at this site on November 1, 2000. All three USTs are in service and are located approximately 325 feet from the I-75 right-of-way.

During a site visit in August 2002, the concrete pads around the fuel island were observed to have minimal staining. There are no known incidents of hazardous materials or petroleum contamination associated with this site. Additionally, a background search of this facility did

not reveal the presence of any documentation that would support the potential for contamination involvement. Based on this information, this site was given a rating of LOW.

Site photographs are included in Appendix B.

**Site No. 21 – Citgo (Former Tillack & Sons, Inc. – Chevron)
27829 CR 54**

This facility is a retail gasoline station and convenience store located in the northwest quadrant of the CR 54 interchange. An automatic hand car wash is located adjacent to the convenience store. The facility has been located here since at least 1979. According to the FDEP TANKS Report, three 10,000-gallon USTs containing unleaded gasoline were installed at this site on July 1, 1983. One UST containing vehicular diesel was installed on July 1, 1979. All four USTs are currently in service and are located approximately 45 feet from the I-75 right-of-way. One UST containing waste oil was removed from this site on June 30, 1991.

According to the FDEP PCTS Report, contamination was reported for this site. The facility was found partially eligible for the EDI program and eligible for the PCPP program for a separate contamination incident. A CAR was completed in November 1994 that indicated excessively contaminated soil was limited to the site. The groundwater direction was measured to flow toward the south-southwest, towards CR 54. A Supplemental Site Assessment (SSA) Report was completed on February 20, 2002 to determine the extent of contaminated soil and groundwater due to two historical releases of petroleum hydrocarbons. Results of the assessment indicated that the highest reported concentrations of petroleum hydrocarbon-related vapors were from samples collected in the center of the site adjacent to the fuel dispenser islands. The SSA Report recommended that a RAP be prepared.

During a site visit in August 2002, the concrete pads around the fuel island were observed to have medium staining. Eleven monitoring wells were located on-site and one was located off-site. There was no remediation system in place during the site visit. Based on this information, this site was given a rating of MEDIUM.

Site photographs and support documentation are included in Appendix B.

**Site No. 22 – Denny's - Master's Economy Inn
27807 CR 54**

This facility is a restaurant located approximately 260 feet from the existing right-of-way and northwest of the CR 54 interchange. The Master's Economy Inn is situated behind the restaurant. The facility has been located here since at least 1982. There is no tank information available in the FDEP TANKS Report. According to the FDEP PCTS Report, two incidents of contamination have been reported for Masters Economy Inn. The discharge date for the first incident was on May 15, 1991. The facility was found eligible for the ATRP program on February 12, 1993. The discharge date for the second incident was on May 15, 1992. No additional information was available regarding the second discharge.

A CAR that was prepared for the Master's Economy Inn, dated January 6, 1994, indicated that USTs were removed from this facility in 1987. It is believed that the tanks were used to store unleaded gasoline.

According to a March 2002 Addenda to a SSA Report, a dispenser island and associated piping were removed from this site in May 1991. Documented contamination is on record for the properties bordering the subject facility. To the east is a Citgo gasoline station (Site No. 21), and to the west is an Amoco gasoline station (Site No. 23). Through field screening analysis, the SSA Report identified two source areas of soil and groundwater contamination. One is centered in the former tank farm, and the other is located northwest of the dispenser island. The groundwater flow direction has been shown to vary from a northeast direction to a southwest direction. A RAP is recommended in the SAA to mitigate the effect of the contaminant source. Based on this information, the site was given a rating of MEDIUM.

Site photographs and support documentation are included in Appendix B.

**Site No. 23 – Amoco
27741 CR 54**

This facility is a retail gasoline station located northwest of the CR 54 interchange. The facility has been located here since at least 1984. It is included in the US EPA RCRA NONTSD Report as a small quantity generator (<1,000 kg per month). No violation information was on file. According to the FDEP TANKS Report, three 10,000-gallon USTs containing unleaded gasoline and one 10,000-gallon UST containing vehicular diesel were installed at this site on June 1, 1984. All four USTs are currently in service and are located approximately 370 feet from the I-75 right-of-way. One AST (volume and installation date unknown) containing unleaded gasoline was removed from this site on July 1, 2000.

According to the FDEP PCTS Report, an incident of contamination was reported for this site on November 30, 1988. The facility was found eligible for the EDI program on June 7, 1990. A CAR dated February 1990 indicated that the USTs and accompanying product lines at the site were rated as acceptable in tightness tests that were conducted in January 1990. Water table elevations indicated that groundwater in the surficial aquifer generally flows to the south-southeast. The dissolved hydrocarbons are contained on-site and appear to be limited in extent. It was recommended in the CAR that this facility be placed in a "Monitoring Only" status.

The FDEP has reviewed a subsequent Site Assessment Report and No Further Action Proposal (NFAP) dated August 11, 1997. Documentation submitted with the NFAP confirmed that the criteria set forth in the Florida Administrative Code had been met and the NFAP was incorporated. In a letter dated March 3, 1999, however, the FDEP indicated that sampling information dated November 10, 1998 indicated that the site no longer meets the criteria approved in the NFAP. The FDEP required site rehabilitation in order to reduce contaminant concentrations to the levels approved in the NFAP. Since the proximity of the facility is a great distance from the existing right-of-way and the contamination appears to be contained within the property boundary, the site was given a rating of LOW.

Support documentation is included in Appendix B.

**Site No. 24 – Circle K #7475
27707 CR 54**

This facility is a retail gasoline station located northwest of the CR 54 interchange. The facility has been located here since at least 1985. It is included in the US EPA RCRIS and FDEP COMHAZ Reports as being a conditionally exempt small quantity generator (<100 kg

per month). According to the FDEP TANKS Report, three 10,120-gallon USTs containing unleaded gasoline and one 10,120-gallon UST containing vehicular diesel were installed at this site on July 1, 1985. All four USTs are currently in service and are located approximately 1,800 feet from the I-75 right-of-way.

According to the FDEP PCTS Report, one incident of contamination has been reported for this site. The discharge date was on December 9, 1987. The facility was found eligible for the EDI program on September 6, 1991. A CAR dated April 11, 1995, indicated that Circle K Corporation had filed a discharge notification form (DNF) with the FDEP on July 5, 1988. A discharge of approximately 100 gallons of leaded gasoline was reported when a truck broke a leak detector associated with the UST system.

The CAR indicated that the soil analysis resulted in total organic vapor concentrations of greater than 50 parts per million and the presence of dissolved petroleum hydrocarbons in the vicinity of the UST area. No free product was observed during the contamination assessment. The approximate direction of groundwater flow in the surficial aquifer is generally to the southeast.

Tank and line test results since 1990 indicate the UST system tested tight. The results of the second natural attenuation quarterly report were submitted to the FDEP on January 16, 2002. The report indicated that dissolved BTEX or MTBE were not detected above cleanup levels in the samples collected. MTBE was detected in MW-9 which exceeds the target level but is within the natural attenuation default concentration for a source well. Benzo (b) flouranthene was detected in DMW-3 at a concentration that exceeds the target level. It is recommended in the report that monitoring be extended for two additional quarters. Since the proximity of the facility is a great distance from the existing right-of-way and the contamination is currently being monitored, the site was given a rating of LOW.

Support documentation is included in Appendix B.

7.0 REGULATORY STATUS OF SITES

There are no activities associated with any of the identified potential contamination sites where a regulatory agency is taking, or has taken, action on any properties that could have an effect on the proposed project.

8.0 FINDINGS AND RECOMMENDATIONS

Fourteen sites were identified as having the potential for petroleum or hazardous materials contamination for the PD&E Study from south of Fowler Avenue to south of SR 56 in the vicinity of Cypress Creek. Of the 14 sites, 11 are considered to be potential petroleum sites, two are considered to be a potential hazardous materials sites and one is considered to be both a potential petroleum and hazardous materials site. No sites in the project area received a rating of HIGH. One site received a rating of MEDIUM, eight sites received a rating of LOW and five sites received a rating of NO.

The one site rated as having a MEDIUM potential for contamination involvement is Site No. 2 - Morris Bridge Landfill (Segment A).

Ten sites were identified as having the potential for petroleum or hazardous materials contamination for the Reevaluation from south of SR 56 in the vicinity of Cypress Creek to CR 54. Of the 10 sites, eight are considered to be potential petroleum sites and two are considered to be potential hazardous materials sites. No sites in the project area received a rating of HIGH. Four sites received a rating of MEDIUM, five sites received a rating of LOW and one site received a rating of NO.

The four sites rated as having a MEDIUM potential for contamination involvement are:

- Site No. 18 - Citrus Country Shell (Segment F)
- Site No. 19 - Texaco – Wesley Chapel (Segment F)
- Site No. 21 - Citgo (Segment F)
- Site No. 22 - Denny's – Master's Economy Inn (Segment F)

It is recommended that a Level 2 Contamination Assessment be conducted for the five sites rated as having a MEDIUM potential for contamination involvement.

This Level 2 Contamination Assessment should be accomplished prior to the project right-of-way phase and coordinated with appropriate offices to insure that where contamination is verified to exist and is likely to affect construction, appropriate steps are taken to avoid the contamination or have the contamination remediated prior to any construction activity at that location. Properties which are confirmed to have contamination present should be further assessed to completely identify the type, amount and area of contamination.

9.0 REFERENCES

- United States Department of Agriculture, Soil Conservation Service (now Natural Resources Conservation Service), Soil Survey of Hillsborough County, Florida, May 1989.
- United States Department of Agriculture, Soil Conservation Service (now Natural Resources Conservation Service), Soil Survey of Pasco County, Florida, June 1982.
- FDOT's Soils and Foundations Manual.
- United States Geological Survey Quadrangle Maps, Scale 1:24,000, Thonotosassa, FLA, 1974, Photorevised 1987; Lutz, FLA, 1974, Photorevised 1987; Sulphur Springs, FLA, 1956, Photorevised 1987; and Wesley Chapel, FLA, 1973.
- Tampa City Directories for years 1971, 1976, 1979, 1983, 1988, 1993, 1997, and 1999.
- Zephyrhills City Directory for year 1969.
- Hillsborough and Pasco Counties Aerial Photography, years 1966, 1972, 1991, 1994, and 2000.
- Hillsborough County Generalized Existing Land Use Map.
- Pasco County Generalized Existing Land Use Map.
- Hillsborough and Pasco Counties and Temple Terrace Future Land Use Maps.
- Hillsborough County Property Appraiser Documentation.
- Pasco County Property Appraiser Documentation.
- Florida Department of Transportation's Project Development and Environment Manual, Part 2, Chapter 22, February 8, 1994.
- Site visits October 2001, August 2002 and February 2003.
- Environmental Data Management, Inc. provided the following:
 - National Priorities List, July 20, 2001.
 - Comprehensive Environmental Response, Compensation and Liability Information System List, October 22, 2001.
 - No Further Remedial Action Planned List, October 23, 2001.
 - Emergency Response Notification System List, July 11, 2001.
 - Resource Conservation and Recovery Act Information System List, August 13, 2001.

RCRIS National Oversight Database Handlers With Corrective Action Activity, July 13, 2001.

Hazardous Waste Data Management System List, February 1, 1991.

Facility Index Data System List, November 23, 1998.

Toxic Release Inventory System List, February 28, 2001.

RCRA Notifiers With No Treatment, Storage and/or Disposal Activities, July 23, 2002.

Storage Tanks Report, July 26, 2001.

State Funded Action Sites List, October 29, 2001.

Petroleum Contamination Tracking System Report, August 8, 2001.

Florida Sites List, April 25, 1995.

Solid Waste Facilities List, August 16, 2001.

Hazardous Waste Compliance & Enforcement Tracking System Report, May 9, 2001.

Appendix A

Environmental Data Report

ENVIRONMENTAL DATA REPORT

**Approx. 14.5 X 0.25 Mile Corridor
Interstate 75,
From Fowler Avenue to State Road 54
Hillsborough and Pasco Counties, Florida**

Prepared For:

**Parsons, Brinckerhoff, Quade & Douglas
5405 West Cypress Street Suite 300
Tampa, FL 33607**

Prepared By:

**ENVIRONMENTAL DATA MANAGEMENT, INC.
12360 66th Street North
Largo, Florida 34643**

Friday, October 26, 2001



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<http://www.edm-net.com>

Friday, October 26, 2001

Ray Magsanoc
Parsons, Brinckerhoff, Quade & Douglas
5405 West Cypress Street Suite 300
Tampa, FL 33607

Subject: **Approx. 14.5 X 0.25 Mile Corridor – EDM Project #: 13060**

Dear Mr. Magsanoc:

Thank you for using Environmental Data Management, Inc. The following report provides the results of our environmental data search that you requested for the following location:

**Interstate 75,
From Fowler Avenue to State Road 54
Hillsborough and Pasco Counties, Florida**

The following is a summary of the components contained within this report:

- **Report Cover Letter and Executive Summary** - this page and a summary page that lists the databases searched, your search distance criteria and the number of sites identified for each database.
- **Map of Study Area** - shows the location of sites identified relative to the subject property. These sites are labeled with Map ID Numbers, used to correlate the map symbols with data detail within the report. A non-mapped option is available.
- **Summary Table** - Summary information concerning the records identified within your study area. The table provides corresponding Map ID Numbers, the site's Permit or Facility I.D. Number, the site's name and address and the government database(s) on which the site was listed.
- **Detail Portion of the Report** - data detail for each record identified, grouped by database listing.
- **Proximal Sites Table** - lists potentially relevant sites identified just beyond your search criteria. These records are provided to account for instances where the boundary of the parcel extends within the study area, if the site is mis-mapped slightly, or if you are just curious about a proximal site of potential concern.
- **Non-Mapped Records Table** - lists those government records that do not contain sufficient address information to plot within our GIS system, but may still exist within your study area.

We at EDM take great pride in our work, and continually strive to provide you with the most thorough and comprehensive service available. We accomplished this by manually screening your report against both computerized and hard copy maps, as well as additional address sources. This manual effort may add an hour or two to your report preparation, but we think a more thorough and accurate result is worth it. After all, what's the value of inaccurate information?

Thank you again for selecting EDM as your data research provider. Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with **Parsons, Brinckerhoff, Quade & Douglas** in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.

Executive Summary

Client Information	Project Information
Ray Magsanoc Parsons, Brinckerhoff, Quade & Douglas 813-289-5300 Client Job No# Client P.O. No	Approx. 14.5 X 0.25 Mile Corridor Interstate 75, From Fowler Avenue to State Road 54 Hillsborough and Pasco Counties, Florida EDM Job No#: 13060

The following table displays the databases that were included in the research provided, the respective search distance for each database, and the number of records identified for each database.

	# Found
EPA DATABASES	
National Priorities List(NPL)	0
Comprehensive Environmental Response, Compensation & Liability Information System List(CERCLIS)	1
No Further Remedial Action Planned List(NFRAP)	0
Emergency Response Notification System List(ERNS)	4
RCRIS Handlers with Corrective Action Report(CORRACTS)	0
Resource Conservation & Recovery Information System List(RCRIS)	2
Hazardous Waste Data Management System List(HWDMS-historical database)	0
Facility Index System List(FINDS-historical database)	3
Toxic Release Inventory System List(TRIS)	0
FDEP DATABASES	
State Funded Action Sites List(SFAS)	0
Florida Sites List(SITES)	0
Solid Waste Facilities List(SLDWST)	3
Petroleum Contamination Tracking System List(PCTS)	5
Stationary Tanks Inventory System List(TANKS)	10
Hazardous Waste Compliance & Enforcement Tracking System List(COMHAZ)	2

***** Disclaimer *****

Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Additionally, limitations exist in mapping data detail and accuracy. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel and regulatory file review. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. The EDM Service Request Form, signed by all of our clients before EDM issues a report, contains more detailed language with regard to such limitations, the terms of which the reader must accept in their entirety before utilizing this report. If the signed contract is not available to the reader, EDM will gladly furnish a copy upon request.

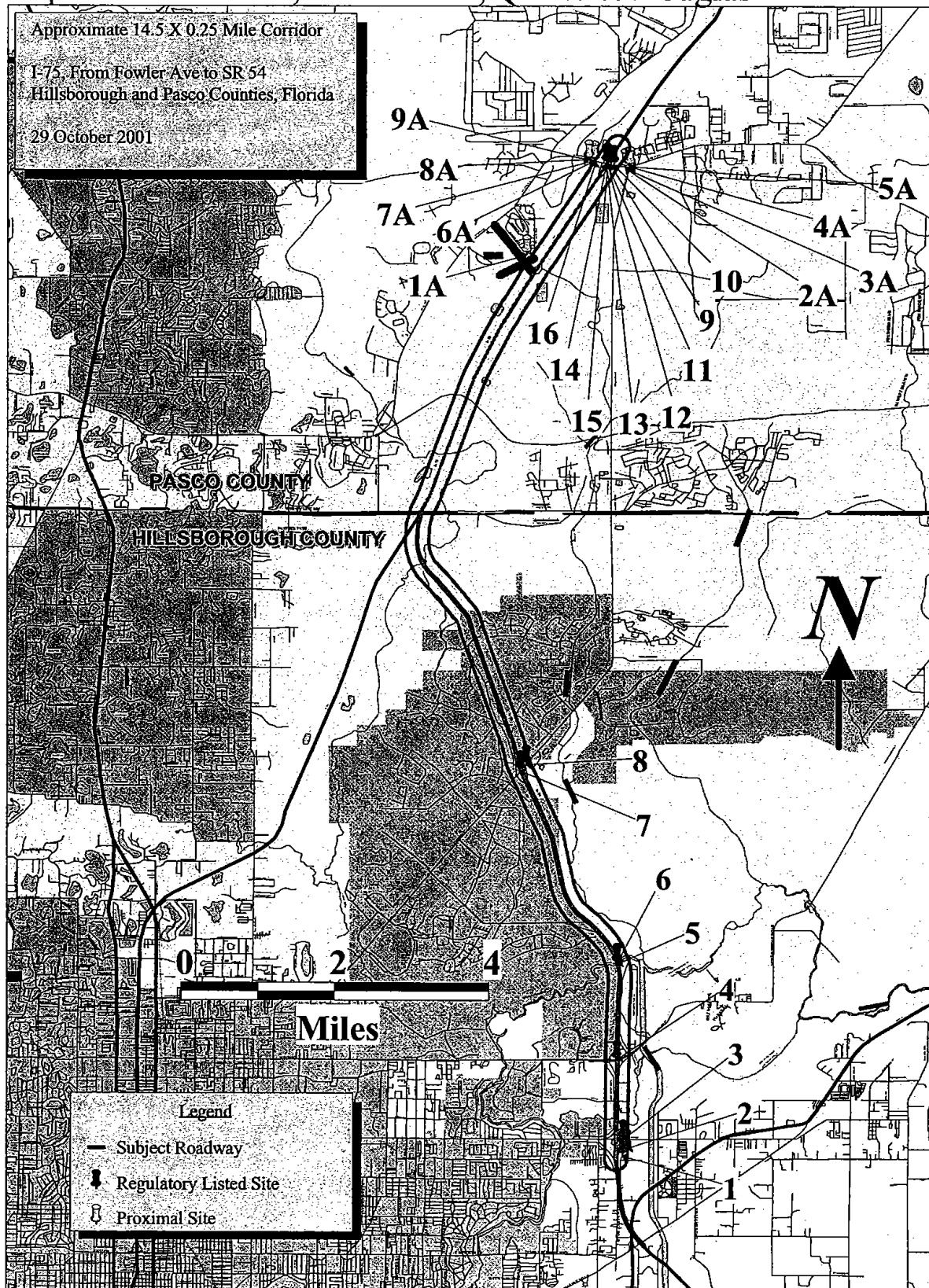


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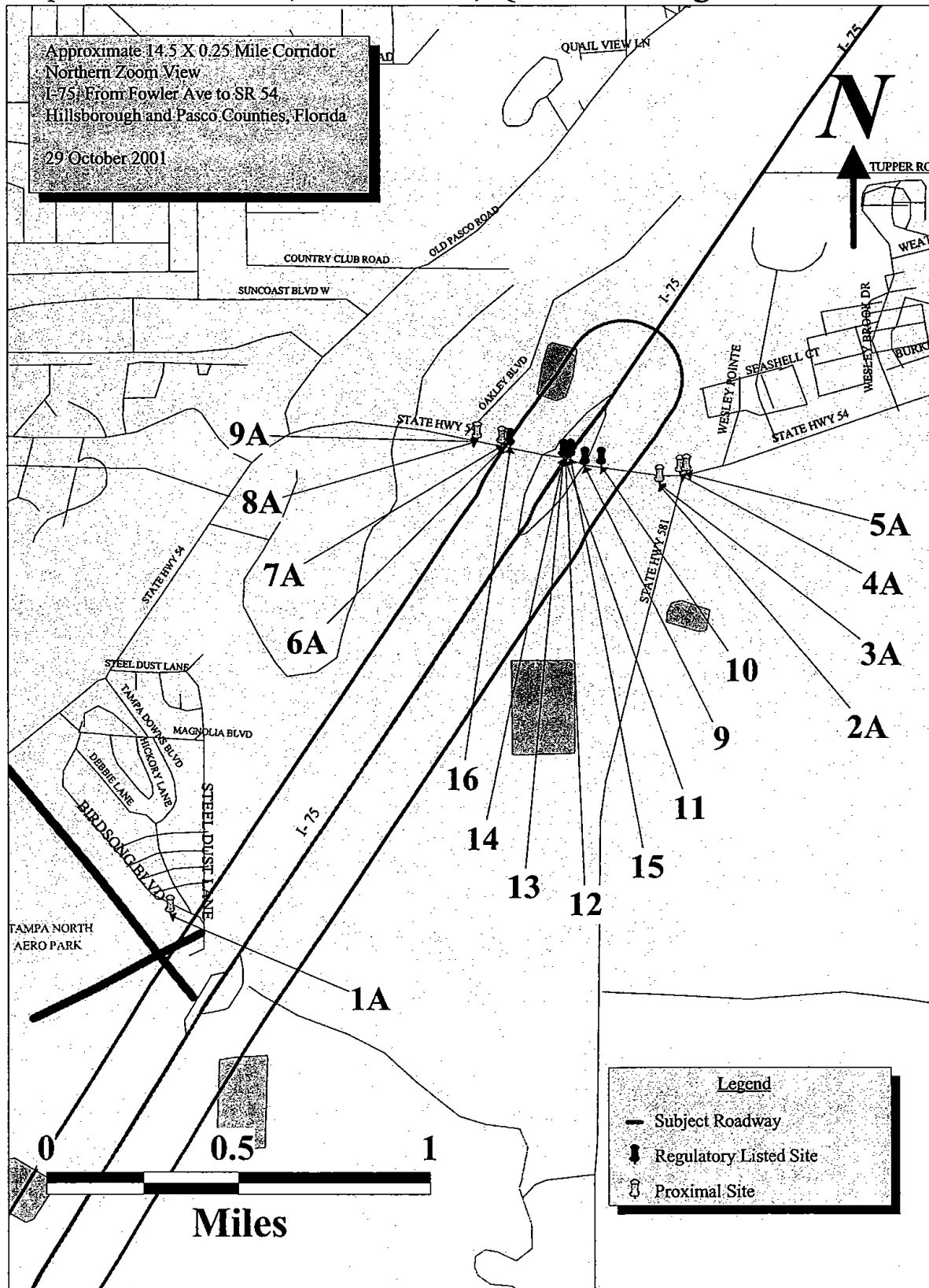
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Prepared For: Parsons, Brinkerhoff, Quade & Douglas



Prepared For: Parsons, Brinkerhoff, Quade & Douglas

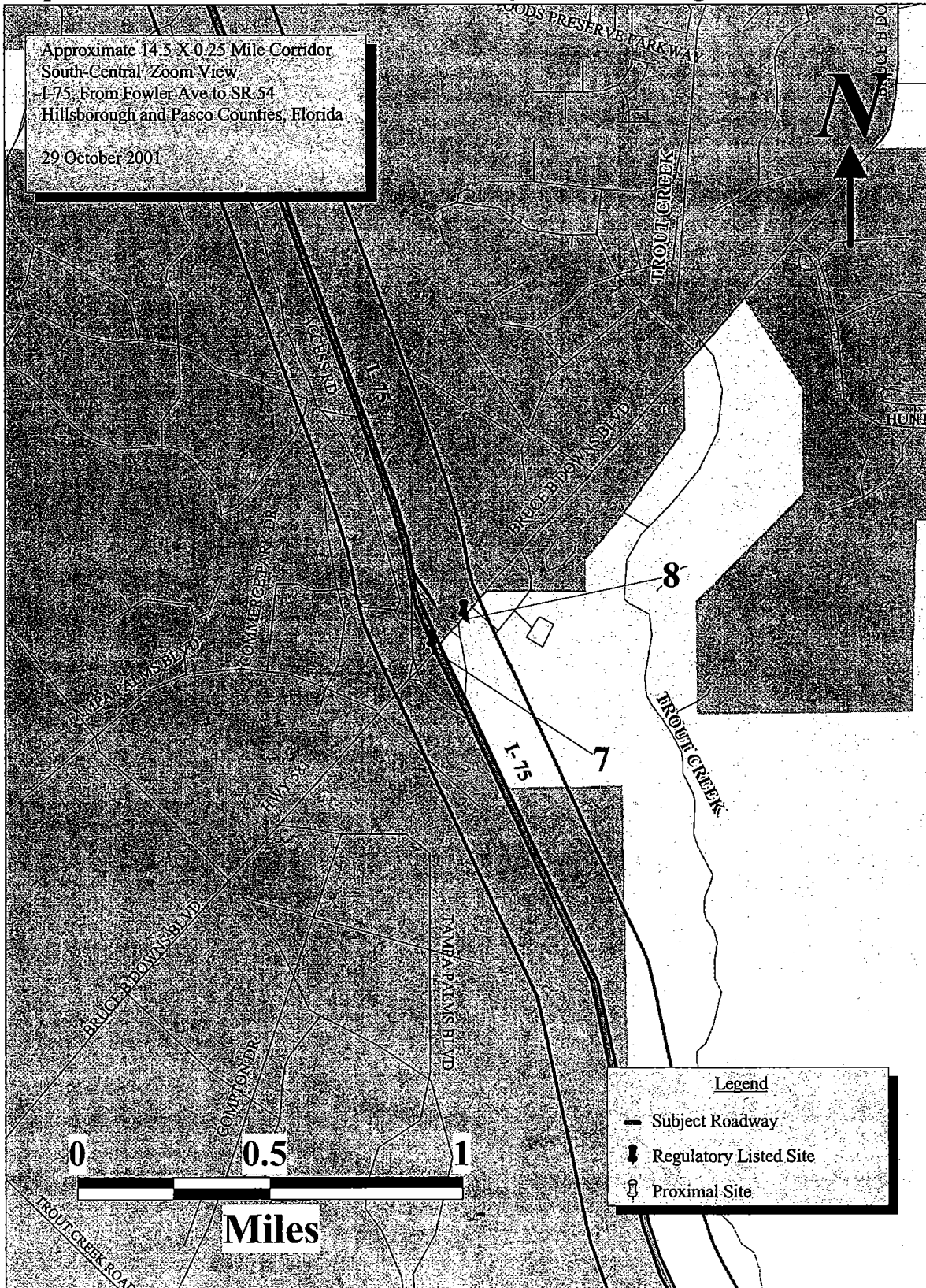


EDM

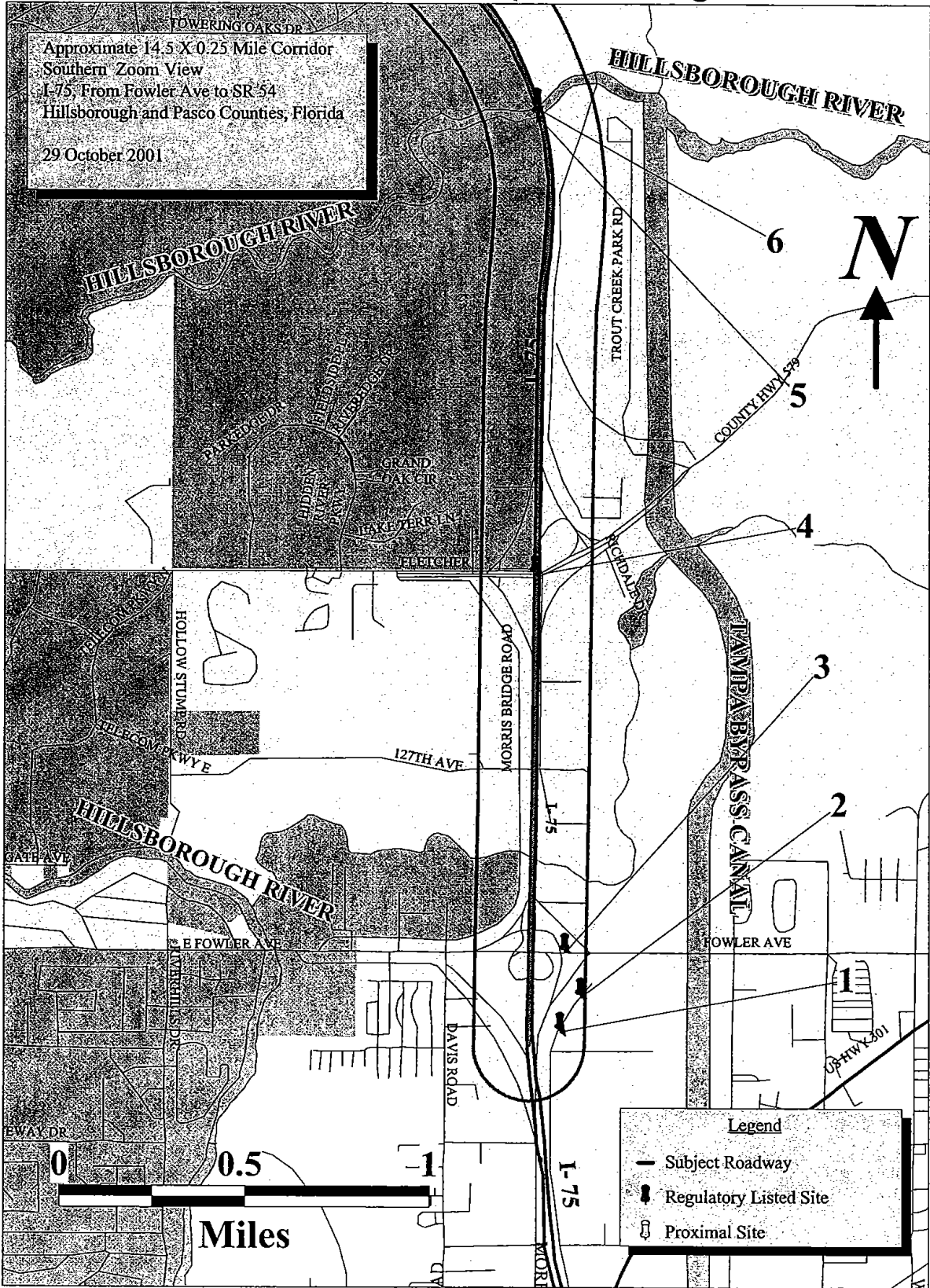
Environmental Data Management, Inc.
12360 66th Street North
Largo, Florida 34643
Tel (727) 536-8989 Fax (727) 535-9757

Map Scale and Site Locations
are Approximate

Prepared For: Parsons, Brinkerhoff, Quade & Douglas



Prepared For: Parsons, Brinkerhoff, Quade & Douglas



EDM

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12360 66th Street North
Largo, Florida 34643
Tel (727) 536-8989 Fax (727) 535-9757

Map Scale and Site Locations
are Approximate

**** ENVIRONMENTAL DATA MANAGEMENT ****
STANDARD RADIUS REPORT

10/29/2001

SUMMARY TABLE

Page 1 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS									
		FEDERAL					STATE				
		N P L	C F L	N F R P	C R R A C T S	H W I M D S	T R I N I S	S F A T S	S L D T S	P C A N K S	C O M H A Z
1)	8736769 RAULERSON & SON INC 10611 RAULERSON RANCH RD TAMPA, FL. 33637										X
2)	4029P81636 MORRIS BRIDGE LANDFILL MORRIS BRIDGE & FOWLER AVE 07-28S-20E TAMPA, FL.									X	
2)	FLD981748080 MORRIS BRIDGE LANDFILL FOWLER AVE/MORRIS BRIDGE RD. TAMPA, FL. 33612		X				X				
2)	NONE 2970.## MORRIS BRIDGE RD I-75 OFFRAMP OLD MORRIS BRIDGE RD & FOWLER GARBAGE FILL-20 TAMPA, FL.									X	
2)	NONE 2990 MORRIS BRIDGE LANDFILL MORRIS BRIDGE & FOWLER AVE 07-28S-20E TAMPA, FL.									X	
3)	8736726 MITCHELL ASSOCIATES, INC., BOB 8432 E FOWLER AVE TAMPA, FL. 33637										X
4)	19223 Unknown MEDIUM OF I-75 NORTH FLETCHER AVE TEMPLE TERRACE, FL.			X							
5)	178562 SSE TRANSPORTATION CO I-75 NORTH & I-275 AT THE BRIDGE OVER THE HILLSBO TAMPA, FL.			X							
6)	104149 Unknown HILSBOROUGH RIVER AT I-75 , FL.			X							
7)	9802116 HESS #09277 BRUCE B DOWNS BLVD & I-75 TAMPA, FL. 33647										X



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**** ENVIRONMENTAL DATA MANAGEMENT ****
STANDARD RADIUS REPORT

10/29/2001

SUMMARY TABLE

Page 2 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL							STATE				
		NC PE LR CA LI S	NE FR CA P	NE OR RI AS CT S	CR OR RI AS S	HI WA ID MS S	TR IN S	SS FI AT ES S	SS IL D W S T	SP CA NK S	TC AN H A Z	CO M S A Z	
8)	8624903 TAMPA, CITY-WATER DEPT., PRODUCTION DIV 17101 HWY 581 TAMPA, FL. 33647											X	
9)	9046575 TEXACO - WESLEY CHAPEL 28014 CR 54 WESLEY CHAPEL, FL. 34249											X	X
10)	9100181 RACETRAC #407 28053 HWY 54 ZEPHYRHILLS, FL. 33543												X
11)	FLD984195438 EXXON CO USA #49131 HWY 54 & I75 LAND O LAKES, FL. 772100000				X	X							
12)	FLD984195438 EXXON CO USA #49131 HWY 54 & I-75 LAND O LAKES, FL. 34639												X
13)	FLD984254748 CIRCLE K #7475 US HWY 54/I-75 ZEPHYRHILLS, FL. 33619												X
14)	8520488 CIRCLE K #7475 27707 HWY 54 W ZEPHYRHILLS, FL. 33543										X	X	
14)	8520488. CIRCLE K #7475 HWY 54 & I-75 ZEPHYRHILLS, FL. 33599										X	X	
14)	FLD984254748 CIRCLE K #7475 US HWY 54/I-75 ZEPHYRHILLS, FL. 336190				X	X							
15)	312820 D & D SHEET METAL HWY 54 & 75 LUTZ, FL.			X									



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**** ENVIRONMENTAL DATA MANAGEMENT ****
STANDARD RADIUS REPORT

10/29/2001

SUMMARY TABLE

Page 3 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS										
		FEDERAL					STATE					
		N P L	C E R C L S	N E F R C A S P	C R O R R A C T S	R H W I D N S	F T R I S	S F A T S	S I T E S	S P L D T W S T	P C A N K S	C O M H A Z
16)	8515078 CITGO-NII 27829 HWY 54 W WESLEY CHAPEL, FL. 33543-										X	X
16)	8515078. CHEVRON #47128-TILLACK'S I-75 & SR 54 WESLEY CHAPEL, FL.										X	X



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USEPA NATIONAL PRIORITIES LIST

10/29/01

(NPL)

NPL Page 1 of 2

The US EPA National Priorities List (NPL) is a listing of facilities and/or locations where environmental contamination has been confirmed and prioritized for "Superfund" cleanup activities. The NPL was devised as a method for the EPA to prioritize these sites for the purpose of taking remedial action as funded by the Hazardous Waste Substance Superfund program, which was initially established under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). Please see the CERCLIS database description for further information relative to the CERCLA program.

The EDM NPL report includes records identified in your study area that are listed as a NPL facility. Please note that the data detail provided in the EDM NPL report was either enhanced by adding more site-specific information provided in EPA Publication "Superfund: Progress at National Priority List Sites", or by simply inserting a description page obtained from the US EPA via the internet (with source referenced at the bottom of the page).

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. The EDM 2 MILE SUMMARY APPENDIX is provided in the EDM comprehensive report format, and includes some of the more "potentially disconcerting" sites (including the NPL) mapped within an approximate 2 Mile radius of your requested study area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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Agency File Date: 6/13/01

Received by EDM: 7/17/01

EDM Database Updated: 7/20/01

1 Additional information (if provided) was manually input from EPA Publication: "Superfund: Progress at National Priority List Sites"



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US EPA NATIONAL PRIORITIES LIST

10/29/01

(NPL)

NPL Page 2 of 2

FACILITY ID NUMBER, NAME AND LOCATION:

N
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NO DATA FOUND FOR STUDY AREA

Date Proposed:
Date Finalized:
Date Deleted:
Date Partial Deleted:

NPL STATUS:

1
****ADDITIONAL SITE INFORMATION****

1 Additional information (if provided) was manually input from EPA Publication: "Superfund: Progress at National Priority List Sites"



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USEPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY INFORMATION SYSTEM LIST

(CERCLIS)

10/29/01

CERCLIS Page 1 of 2

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list contains facilities and/or locations that the USEPA is investigating to determine if an existing or threatened release of hazardous substances is present. The CERCLIS list contains sites that have been proposed for inclusion on the NPL, are actually on the NPL and/or are in the screening and assessment phase for possible inclusion on the NPL. Once identified as a potential environmental problem, a preliminary site assessment is typically conducted by the USEPA or State agency for all sites listed on the CERCLIS list. Based upon the findings of the preliminary assessment, further assessment and remediation activities may be deemed necessary. If warranted, the site may be ranked according to the degree of environmental health and safety concerns and placed on the NPL for cleanup per the Hazardous Waste Substance Superfund program, initially established under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA).

As of February 15, 1995, CERCLIS no longer includes sites which the EPA has assessed and designated "No Further Remedial Action Planned" (NFRAP). A NFRAP designation means, to the best of EPA's knowledge, Superfund completed its assessment at a site and has determined no further steps to list this site on the NPL will be taken unless information indicating this decision was not appropriate or other considerations make a recommendation for listing appropriate at a later time. An NFRAP decision does not necessarily mean that there is no hazard associated with a given site; it means only that based upon available information, the location is not judged to be a potential NPL site (see our NFRAP database description).

The EDM CERCLIS report includes CERCLIS records identified within your study area. The appearance of a site on this list does not necessarily indicate environmental problems on the site, but rather that the site is listed by the EPA as one that requires further assessment or remedial activities. These activities may include preliminary assessment activities that might lead to the site being removed from the CERCLIS list.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. The EDM 2 MILE SUMMARY APPENDIX is provided in the EDM comprehensive report format, and includes some of the more "potentially disconcerting" sites (including CERCLIS listings) mapped within an approximate 2 mile radius of your requested study area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

Agency File Date: 7/12/01

Received by EDM: 10/22/01

EDM Database Updated: 10/22/01

CERCLIS DATABASE



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USEPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY INFORMATION SYSTEM LIST

10/29/01

(CERCLIS)

CERCLIS Page 2 of 2

FACILITY ID NUMBER, NAME AND LOCATION:

MAP ID NUMBER:

2

CERCLIS

FLD981748080
MORRIS BRIDGE LANDFILL
FOWLER AVE/MORRIS BRIDGE RD.
TAMPA, FL 33612

NPL DESCRIPTION: NOT ON THE NPL

OWNERSHIP TYPE: OTHER

FEDERAL FACILITY STATUS: NOT A FEDERAL FACILITY

NON NPL STATUS: OTHER CLEANUP ACTIVITY:STATE-LEAD CLEANUP

SITE INCIDENT CATEGORY:

****CERCLIS EVENT DETAIL FOR EACH OPERABLE UNIT****

Descriptions for a specific response, non-response or support event within the pre-remedial, remedial and/or community relations components of the Superfund Program.

Table with 4 columns: OPERABLE UNIT ID, OPERABLE UNIT NAME, STATE, and COMMENTS. Row 1: 00, STREWEDE

**EVENT NAME: DISCOVERY

START DATE: EVENT LEAD: EPA FUND-FINANCED

COMPLETION DATE: 19860827 EVENT QUALIFIER:

**EVENT NAME: PRELIMINARY ASSESSMENT

START DATE: 19870731 EVENT LEAD: STATE, FUND FINANCED

COMPLETION DATE: 19870813 EVENT QUALIFIER: LOW

**EVENT NAME: SITE INSPECTION

START DATE: EVENT LEAD: EPA FUND-FINANCED

COMPLETION DATE: 19890823 EVENT QUALIFIER: HIGH

ADDITIONAL EPA COMMENTS FOR THIS FACILITY:



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USEPA NO FURTHER REMEDIAL ACTION PLANNED LIST

10/29/01

(NFRAP)

NFRAP Page 1 of 2

As of February 15, 1995, CERCLIS no longer includes sites that the EPA has assessed and designated as a No Further Remedial Action Planned (NFRAP) site. A NFRAP designation means, to the best of EPA's knowledge, the EPA (or its agent) has completed assessment activities at the site, and has determined no further steps to list this site on the NPL will be taken unless information indicating this decision was not appropriate or other considerations make a recommendation for listing appropriate at a later time. These NFRAP sites may be reviewed by the states in which they are located to determine if they should be returned to CERCLIS because of newly identified contamination problems at the site.

NFRAP sites were previously maintained in the CERCLIS database. However, this policy led to unintended barriers to the redevelopment of these properties and the EPA decided to remove these sites from the CERCLIS database and place them in the NFRAP database to both remove the apparent "stigma" as well as creating an archive of historical records so EPA does not needlessly repeat the investigations in the future.

The EDM NFRAP report includes records identified in your study area that are listed as a NFRAP facility. An NFRAP decision does not necessarily mean that there is no hazard associated with a given site, but rather that, based upon available information, the location is not judged to be a potential NPL site. Please see the CERCLIS database description for further information relative to the CERCLA program.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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Agency File Date: 7/12/01

Received by EDM: 10/22/01

EDM Database Updated: 10/23/01



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USEPA NO FURTHER REMEDIAL ACTION PLANNED LIST

10/29/01

(NFRAP)

NFRAP Page 2 of 2

FACILITY ID NUMBER, NAME AND LOCATION:

NO DATA FOUND FOR STUDY AREA

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**USEPA EMERGENCY RESPONSE NOTIFICATION SYSTEM LIST
(ERNS)**

10/29/01

ERNS Page 1 of 5

The US EPA Emergency Response Notification System (ERNS) list is a database used to store information on the notification of oil discharges and hazardous substance releases. The ERNS program is a cooperative data sharing effort among the Environmental Protection Agency (EPA), various program offices of the Department of Transportation (DOT) and the National Response Center (NRC). This database is in place to meet provisions of the revised National Oil and Hazardous Substance Pollution Contingency Plan (NCP) and US EPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) to provide EPA headquarters and regional management and staff with information on the nature and types of releases occurring on a nationwide basis.

The ERNS database integrates both initial notification information concerning releases of oil and hazardous substances, as well as additional follow-up information specific to those incidents. Typically, information about a release is received from the reporting parties by one of three entities, the NRC, EPA or the Marine Safety Information System (MSIS).

The EDM ERNS report includes ERNS records identified within your study area , and includes data compiled from 1987 to the date of our latest quarterly update. The report indicates the date of the reported incident, the type and quantity of materials involved and the reported incident details and response actions that were taken. Please note that approximately 1% of the ERNS records retrieved from the EPA database do not contain information on the name or location of sites where incidents have occurred. These records are not included in the EDM ERNS report.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. The EDM 2 MILE SUMMARY APPENDIX is provided in the EDM comprehensive report format, and includes some of the more "potentially disconcerting" sites (including ERNS listings) mapped within an approximate 2 mile radius of your requested study area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

Agency File Date: 8/7/00

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ERNS
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**USEPA EMERGENCY RESPONSE NOTIFICATION SYSTEM LIST
(ERNS)**

10/29/01

ERNS Page 3 of 5

FACILITY ID NUMBER, NAME AND LOCATION:

MAP ID NUMBER:

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**E
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178562
SSE TRANSPORTATION CO
I-75 NORTH & I-275 AT THE BRIDGE OVER T
TAMPA, FL

County: HILLSBOROUGH

US EPA REGION 4 ID #:

NATIONAL RESPONSE CENTER ID #: 37800

AGENCY RECEIVING REPORT: NATIONAL RESPONSE CENTER

RESPONDING AGENCY:

US COAST GUARD UNIT RECEIVING REPORT: TAMMS

SPILL DATE: 8/31/90

MATERIAL AND QUANTITY SPILLED:

OIL, FUEL: NO. 2 0 UNK

MEDIA AFFECTED (Y/N): AIR LAND WATER GROUNDWATER FACILITY OTHER OTHER WATERWAY AFFECTED:
N N Y N N N HILLSBOROUGH RIVER

INCIDENT

CAUSE (Y/N): TRANSPORTATION EQUIP FAILURE OPERATOR ERROR NATURAL PHENOMENON DUMPING OTHER CAUSE UNKNOWN
N N N N N N N N

**IF TRANSPORTATION-RELATED, THE
TYPE OF TRANSPORTATION INVOLVED:** HIGHWAY RELATED

DESCRIPTION: SEMI-TRUCK FUEL TANK / TRUCK WENT OFF ROAD, OVER GUARDRAIL, AND RUPTURED
ITS FUEL TANK. FUEL LEAKED INTO THE HILLSBOROUGH RIVER.

RESPONSE: CALLER DIDN'T HAVE INFO ON CLEANUPS.

MISC INFO: NONE



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**USEPA RCRIS NATIONAL OVERSITE DATABASE HANDLERS
WITH CORRECTION ACTION ACTIVITY
(CORRACTS)**

10/29/01

CORRACTS Page 1 of 2

The USEPA Corrective Action Sites (CORRACTS) database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity. This information is compiled by the EPA Regional and State RCRA program personnel, as well as the RCRA facilities themselves. Please see the RCRIS database description for further information relative to the RCRA program.

The EDM NON-MAPPED RECORDS TABLE is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed in this table is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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Agency File Date: 4/20/01

Received by EDM: 7/12/01

EDM Database Updated: 7/13/01



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**USEPA RCRIS NATIONAL OVERSITE DATABASE HANDLERS
WITH CORRECTION ACTION ACTIVITY
(CORRACTS)**

10/29/01

CORRACTS Page 2 of 2

FACILITY ID NUMBER, NAME AND LOCATION:

NO DATA FOUND FOR STUDY AREA

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**USEPA RESOURCE CONSERVATION AND RECOVERY ACT
INFORMATION SYSTEM LIST
(RCRIS)**

10/29/01

RCRIS Page 1 of 2

The US EPA Resource Conservation and Recovery Information System (RCRIS) identifies those facilities or locations that have notified the EPA of their activities relative to the handling of hazardous wastes. These activities include hazardous waste generation, hazardous waste transportation, and hazardous waste treatment, storage and disposal, as defined by federally recognized hazardous waste codes. Generators are typically divided into large-quantity and small-quantity generators (LQG and SQG, respectively). Hazardous waste facilities involved in the Treatment, Storage and Disposal are often grouped into a "TSD" category.

The EDM RCRIS report includes records identified in your study area that are listed as a RCRIS facility. The appearance of a site on this list does not necessarily indicate environmental problems on the site, but rather that the site is (or was) engaged in hazardous waste handling activities and therefore may have the potential to cause environmental degradation if hazardous wastes have been mishandled or otherwise released in an uncontrolled manner. Each RCRIS facility listed in the EDM report will have its status (i.e. Generator, Transporter or TSD) indicated beneath the Facility Name and Location information.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed this summary Appendix is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

RCRIS DATABASE

Agency File Date: 8/9/01

Received by EDM: 8/13/01

EDM Database Updated: 8/13/01



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USEPA RESOURCE CONSERVATION AND RECOVERY ACT
INFORMATION SYSTEM LIST

(RCRIS)

10/29/01

RCRIS Page 2 of 2

MAP ID NUMBER:

11

RCRIS

FACILITY ID NUMBER, NAME AND LOCATION:

FLD984195438
EXXON CO USA #49131
HWY 54 & I-75
LAND O LAKES, FL 346390

MAILING ADDRESS AND CONTACT:

1200 TIMBERLOCH PL
THE WOODLANDS TX 77380-4999
Contact: ALDA S POOL
Contact Tel: (281)296-3579

Notification Date: 10/06

Source: NCRBY

GENERATOR STATUS: N-NOT A GENERATOR
TRANSPORTER STATUS:
TSD STATUS:
OTHER STATUS: N-NOT A USED OIL HANDLER

MAP ID NUMBER:

14

RCRIS

FACILITY ID NUMBER, NAME AND LOCATION:

FLD984254748
CIRCLE K #7475
US HWY 54/I-75
ZEPHYRHILLS, FL 336190

MAILING ADDRESS AND CONTACT:

500 FAULKENBURG RD
TAMPA FL 336190
Contact: STEVE BELIN
Contact Tel: (813)689-8161

Notification Date: 12/03

Source: NCRBY

GENERATOR STATUS: 3-CONDITIONALLY EXEMPT SQG(<100 KG PER MONTH)
TRANSPORTER STATUS:
TSD STATUS:
OTHER STATUS:



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USEPA HAZARDOUS WASTE DATA MANAGEMENT SYSTEM LIST

10/29/01

(HWDMS)

HWDMS Page 1 of 2

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The US EPA Hazardous Waste Data Management System (HWDMS) list is a historical database, previously maintained by the USEPA and subsequently replaced by the RCRIS list. The HWDMS list identified those facilities or locations that have notified the EPA of their activities relative to the handling of hazardous wastes. These activities include hazardous waste generation, hazardous waste transportation, and hazardous waste treatment, storage and disposal, as defined by federally-recognized hazardous waste codes. Generators are typically divided into large quantity and small-quantity generators (LQG and SQG, respectively). Hazardous waste facilities involved in the Treatment, Storage and Disposal are often grouped into a "TSD" category.

The EDM HWDMS report includes records identified in your study area that are listed as a HWDMS facility. The appearance of a site on this list does not necessarily indicate environmental problems on the site, but rather that the site was engaged in hazardous waste handling activities and therefore may have the potential to cause environmental degradation if hazardous wastes have been mishandled or otherwise released in an uncontrolled manner.

Each HWDMS facility listed in the EDM HWDMS report will have its status (i.e. Generator, Transporter or TSD) indicated beneath the Facility Name and Location information.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed this summary Appendix is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

*The HWDMS list is no longer an active database, and has been replaced by the RCRIS list. The HWDMS list was last updated by EDM on 2/01/91.



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USEPA HAZARDOUS WASTE DATA MANAGEMENT SYSTEM LIST

10/29/01

(HWDMS)

HWDMS Page 2 of 2

NO DATA FOUND FOR STUDY AREA

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USEPA FACILITY INDEX SYSTEM LIST

10/29/01

(FINDS)

FINDS Page 1 of 2

The FINDS list is a **historical database** that identifies facilities and/or locations that are subject to regulation under certain EPA programs, due to operations conducted at these sites. The appearance of a site on this list does not necessarily indicate Environmental problems on the site, but rather that the site conducts operations that may have a potential to cause environmental degradation if hazardous compounds are released in an uncontrolled manner.

The EDM FINDS report includes FINDS records identified within your study area. Each site exhibited on the EDM FINDS report will have an "X" beneath one or more of the source indicators shown on the right side of the report. These source indicators denote which EPA program, such as Air, Water or Hazardous Waste, is responsible for regulating the activities conducted on the site. The "Explanation of Codes" table exhibited below, shows each source indicator and the corresponding EPA office responsible for regulating these activities.

EXPLANATION OF CODES

SOURCE INDICATOR	DESCRIPTION OF SOURCE	EPA PROGRAM OFFICE
*RCRIS	RCRA INFORMATION SYSTEM	WASTE-RCRA
*PCS	PERMIT COMPLIANCE SYSTEM	OFFICE OF ENFORCEMENT
*AFS/AIRS	COMPLIANCE DATA & AIR FAC	AIR ENFORCEMENT
*SSTS	PESTICIDES & TOXIC SUBST	AIR-PESTICIDES & OPTS
*CERCLIS	SUPERFUND-HAZARDOUS WASTE SITES	WASTE-SUPERFUND
*FTTS/NCDB	PESTICIDES & TOXIC SUBSTANCE	TSCA
*DOCKET	ENFCMNT & COMPLIANCE MONIT SYS	ENV ACCOUNTABILITY DIV
*CONTROL	HAZARDOUS WASTE CONTROL TECH	HQ-EPA,ORC,OSW&OECM
*CRIM DOC	CRIMINAL DOCKET SYSTEM	ENV ACCOUNTABILITY DIV
*FFIS	FEDERAL FACILITY INFORMATION SYSTEM	FEDERAL ACTIVITIES
*CICIS	CHEMICALS IN COMMERCE INF SYS	TSCA
*STATE	STATE PROGRAM SYSTEM	STATE OFFICES
*PADS	PCB ACTIVITY DATA SYSTEM	TSCA
*RCRA-J	MEDICAL WASTE UNDER RCRA / SOLID WASTE	WASTE-RCRA
*TRIS	TOXIC RELEASE INVENTORY SYSTEM	TSCA-AIR TOXICS
*CUS	CHEMICAL UPDATE SYSTEM	TSCA

For more information on sites identified under these programs you may contact the USEPA Region IV office at (404) 562-9891.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed this summary Appendix is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

As of October 1, 1998 the EPA discontinued actively updating the FINDS database and replaced its function with the Facility Identification Initiative (FII). For more information on the FII, you may visit the EPA's ENVIROFACTS web page. **EDM last obtained this data on 11/23/98.**

FINDS DATABASE



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USEPA FACILITY INDEX SYSTEM LIST

10/29/01

(FINDS)

FINDS Page 2 of 2

SOURCE INDICATOR

R	B	A	S	C	D	G	C	F	C	S	P	R	T	C
C	A	F	S	R	O	O	R	I	I	T	A	C	R	J
R	S	S	S	S	C	N	M	S	S	A	D	R	I	S
I	S	S	S	L	K	R	D	C	S	S	S	A	S	S
S				I	E	O	O			E				

FACILITY ID NUMBER,
NAME AND LOCATION:

FLD981748080
MORRIS BRIDGE LANDFILL
FOWLER AVE & MORRIS BRIDGE RD
TAMPA, FL 33612

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MAP ID #: **2**
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FLD984195438
EXXON CO USA #49131
HWY 54 & 175
LAND O LAKES, FL 772100000

X														
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MAP ID #: **11**
F
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FLD984254748
CIRCLE K #7475
I-75 & HIGHWAY 54
ZEPHYRHILLS, FL 336190000

X														
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MAP ID #: **14**
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**USEPA TOXIC RELEASE INVENTORY SYSTEM LIST
(TRIS)**

10/29/01

TRIS Page 1 of 1

The USEPA Toxic Release Inventory (TRIS) list identifies those facilities that are required to submit annual reports relative to the estimated release of toxic chemicals to the environment, as stipulated under section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA, or Title III of the Superfund Amendment and Reauthorization Act of 1986). This reporting is required to provide the public with information on the release of listed toxic chemicals in their communities and to provide the EPA with release information to assist the Agency in determining the need for future regulations. Facilities subject to these provisions must report the quantities of both routine and accidental releases of listed toxic chemicals.

The EDM NON-MAPPED RECORDS TABLE is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed this table is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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Agency File Date: 9/14/00

Received by EDM: 2/8/01

EDM Database Updated: 2/28/01



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USEPA TOXIC RELEASE INVENTORY SYSTEM LIST
(TRIS)

10/29/01

TRIS Page 1 of 1

TRIS FACILITY ID NUMBER, NAME AND LOCATION:

NO DATA FOUND FOR STUDY AREA

TRIS

EPA ID #:
NPDES #:
FACILITY DUN/BRAD #:
SIC Code:
CONTACT:

UIC ID#:
FACILITY STATUS:
FED AGENCY (IF APPL):

**** TRIS RELEASE DETAIL FOR EACH SUBSTANCE REPORTED ****
(GROUPED BY REPORTING YEAR)



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**FDEP STATE FUNDED ACTION LIST
(SFAS)**

10/29/01

SFAS Page 1 of 2

The Florida State Funded Action Sites (SFAS) list is maintained by the Florida Department of Environmental Protection (FDEP), and contains facilities and/or locations that have been identified by the FDEP as having known environmental contamination and are currently being addressed through State funded cleanup action.

The EDM NON-MAPPED RECORDS TABLE is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. The EDM 2 MILE SUMMARY TABLE is provided in the EDM comprehensive report format, and includes some of the more "potentially disconcerting" sites (including SFAS listings) mapped within an approximate 2 mile radius of your requested study area. If more specific information relative to a particular site listed in either of these tables is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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Agency File Date: 7/26/01

Received by EDM: 8/20/01

EDM Database Updated: 8/21/01



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FDEP STATE FUNDED ACTION LIST

10/29/01

(SFAS)

SFAS Page 2 of 2

NO DATA FOUND FOR STUDY AREA

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FDEP SITES LIST
(SITES)

10/29/01

SITES Page 1 of 2

The Florida SITES list is a historical database, once maintained by the Florida Department of Environmental Protection (FDEP), that contains facilities and/or locations that have been identified as having known or suspected environmental contamination.

The EDM SITES report includes SITES records identified within your study area. The SITES list contains information detailing the lead agency (FDEP, EPA or local) and project manager responsible for overseeing the assessment and cleanup activities required for a site. The EDM SITES report utilizes agency codes, listed below, that identify the lead and support agencies involved with the activities conducted on each site.

**EXPLANATION OF FLORIDA SITES LIST CODES AND ABBREVIATIONS
FOR LEAD UNITS AND/OR SUPPORT UNITS**

DIST = FDEP OFFICE (i.e. southwest, central,...)

EPA = ENVIRONMENTAL PROTECTION AGENCY REGIONAL OFFICE

BWC = FDEP BUREAU OF WASTE CLEANUP

OGC = FDEP OFFICE OF GENERAL COUNSEL

LOCAL = LOCAL AGENCY (i.e. county or municipality)

DERM = DADE COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT

GW = FDEP GROUNDWATER SECTION

3012 = EPA/CERCLA SITE SCREENING SECTION

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. The EDM 2 MILE SUMMARY APPENDIX is provided in the EDM comprehensive report format, and includes some of the more "potentially disconcerting" sites (including Florida Sites listings) mapped within an approximate 2 mile radius of your requested study area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

*The SITES list is no longer an active database. According to sources at the FDEP, this list has not been updated since 1989. **The SITES list was last updated by EDM on 4/25/95.**

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FDEP SITES LIST
(SITES)

10/29/01

SITES Page 2 of 2

NO DATA FOUND FOR STUDY AREA

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**FDEP SOLID WASTE FACILITIES LIST
(SLDWST)**

10/29/01

SLDWST Page 1 of 3

SLDWST DATABASE

The Florida Department of Environmental Protection (FDEP) Solid Waste List (SLDWST) identifies locations that have been permitted to conduct solid waste landfilling activities or other waste handling activities such as those conducted at transfer stations. In addition, sites handling bio-hazardous wastes are also included on this list. Sites listed with "##" after the GMS ID Number are historical locations, obtained from documents on record at the Tampa Bay Regional Planning Council office or other sources.

The EDM SLDWST report includes SLDWST records identified within your study area. The appearance of a site on this list does not necessarily indicate environmental problems at the site, but rather that the site is (or was) engaged in handling solid or bio-hazardous wastes, and therefore may have the potential to cause environmental degradation if such wastes have been mishandled or otherwise released in an uncontrolled manner.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. The EDM 2 MILE SUMMARY APPENDIX is provided in the EDM comprehensive report format, and includes some of the more "potentially disconcerting" sites (including SLDWST listings) mapped within an approximate 2 Mile radius of your requested study area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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EDM Database Updated: 8/16/01



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FDEP SOLID WASTE FACILITIES LIST

(SLDWST)

10/29/01

SLDWST Page 2 of 3

GMS ID NUMBER, NAME AND LOCATION:

4029PB1636
MORRIS BRIDGE LANDFILL
MORRIS BRIDGE & FOWLER AVE 07-28S-20E
TAMPA, FL

MAP ID NUMBER:

2

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RESPONSIBLE AUTHORITY:

SINSLEY, ZAMORE, DOT
??
??, FL

SEC/TWN/RNG (IF REPORTED): 07-28S-20E

WACS ID#: 44597 FAC STATUS/STATUS DATE: INACTIVE--6/01/84
FACILITY CLASS: CLASS 500 OTHER DISPOSAL FACILITY
OPERATION BEGAN---EXPECTED LIFE (Yrs): /---
TOTAL AREA (Acres): DISPOSAL AREA (Acres):
DESIGN CAPACITY (Tons): WASTE/DAY (Tons): # MONITOR WELLS: SURF. SAMPLE PTS:
TREATMENT TYPE: LINER TYPE:
WATER TABLE DEPTH (FT): CELL REFUSE DEPTH (FT):
NPDES PERMIT? (Y/N): LEACHATE DISCHARGED? (Y/N): LOCATION TYPE:

GMS ID NUMBER, NAME AND LOCATION:

NONE 2970 ##
MORRIS BRIDGE RD I-75 OFFRAMP
OLD MORRIS BRIDGE RD & FOWLER GARBAGE
TAMPA, FL

MAP ID NUMBER:

2

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RESPONSIBLE AUTHORITY:

SEVERAL PRIVATE & FDOT

SEC/TWN/RNG (IF REPORTED):

WACS ID#: FAC STATUS/STATUS DATE: CLOSED-1970--
FACILITY CLASS: CLASS
OPERATION BEGAN---EXPECTED LIFE (Yrs): /---
TOTAL AREA (Acres): DISPOSAL AREA (Acres):
DESIGN CAPACITY (Tons): WASTE/DAY (Tons): # MONITOR WELLS: SURF. SAMPLE PTS:
TREATMENT TYPE: LINER TYPE:
WATER TABLE DEPTH (FT): CELL REFUSE DEPTH (FT):
NPDES PERMIT? (Y/N): LEACHATE DISCHARGED? (Y/N): LOCATION TYPE:



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FDEP SOLID WASTE FACILITIES LIST

(SLDWST)

10/29/01

SLDWST Page 3 of 3

GMS ID NUMBER, NAME AND LOCATION:

MAP ID NUMBER:

NONE 2990
MORRIS BRIDGE LANDFILL
MORRIS BRIDGE & FOWLER AVE 07-28S-20E
TAMPA, FL

2

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RESPONSIBLE AUTHORITY:

SINSLEY, ZAMORE, DOT

SEC/TWN/RNG (IF REPORTED): 07-28S-20E

WACS ID#: FAC STATUS/STATUS DATE: INACTIVE-6/84--

FACILITY CLASS: CLASS 500 OTHER DISPOSAL FACILITY

OPERATION BEGAN---EXPECTED LIFE (Yrs): /---

TOTAL AREA (Acres): DISPOSAL AREA (Acres):

DESIGN CAPACTY (Tons): 0.0 WASTE/DAY (Tons): # MONITOR WELLS: 0 SURF.SAMPLE PTS:

TREATMENT TYPE: LINER TYPE:

WATER TABLE DEPTH (FT): CELL REFUSE DEPTH (FT):

NPDES PERMIT? (Y/N): LEACHATE DISCHARGED? (Y/N): LOCATION TYPE:



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 1 of 9

The Florida Department of Environmental Protection (FDEP) Petroleum Contamination Tracking System (PCTS) list is a subset of the FDEP Storage Tank and Contamination Monitoring Database and identifies facilities and/or locations that have notified the FDEP of a possible release of contaminants from petroleum storage systems.

Sites that have been accepted into the State-sponsored EDI, PLIRP, ATRP or PCPP programs were typically issued a rank and score relative to the severity of the release that has occurred. The score that a site received was compiled by assigning numerical values relative to the circumstances of the release and various risk factors. The rank was determined by the relative value of the score issued to the site and represents the priority that the State has placed on initiating cleanup activities at the site. In general, a site that was issued a high score was assigned a relatively low numerical rank. A low rank value indicates a higher priority for response from the State.

The EDM NON-MAPPED RECORDS TABLE is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed in this table is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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Agency File Date: 7/22/01

Received by EDM: 7/26/01

EDM Database Updated: 8/8/01



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 2 of 9

FACILITY ID NUMBER, NAME AND LOCATION:

9046575
TEXACO - WESLEY CHAPEL
28014 CR 54
WESLEY CHAPEL, FL 34249

OWNERSHIP INFORMATION:

RADIANT GROUP LLC
1302 N 19TH ST #300
TAMPA, FL 33605-
OWNER CONTACT TEL #: 8132474731
OWNER CONTACT: JOHN P MYERS JR

MAP ID NUMBER:



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FAC TEL #:

FACILITY STATUS: OPEN

FAC OPERATOR:

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS: ONGO

*****DISCHARGE INFORMATION*****

Discharge Date: 6/13/91 Discharge ID: 22077

SCORE/RANK: 30 / SCORE EFF DATE: 1/6/98 INSPECTION DATE: 1/29/92
LEAD AGENCY: BUREAU OF WASTE CLEANUP CLEANUP WORK STATUS: ACTIVE COMB CLEANUP W/DIS ID:
INFO SOURCE: PLIRP (INSURANCE) FDEP 62-770 DESCR: NEW CLEANUP REQUIRED
DISCH CLNUP STATUS: 6/26/01 RA ONGOING-REMEDIAL ACTION CLEANUP ACTIVITY IN PROGRESS

SOIL: N SUR WATER: N GR WATER: N MON WELL: Y # DW WELLS CONTAMINATED: 0

POLLUTANT TYPE AND ESTIMATED GALLONS (IF REPORTED):
1) UNLEADED GAS/ 2) /
3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****
(for specific discharge noted above)

CLNUP PROG: PLIRP-PETROLEUM LIABILITY INSURANCE & RESTORATION PROGRAM CLNUP LEAD: REIMBURSEMENT
APPL RCVD: 7/12/91 ELIG STATUS: ELIGIBLE ELIG STATUS DATE: 2/26/92 ELIG REDETERMINED?: N

FREE PRODUCT REMOVAL? (Y/N): SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT? (Y/N): OTHER TREATMENT?:

****SITE ASSESSMENT****

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COMPLETION DATE: 9/1/94
PAYMENT DATE:
ACTUAL COST:

****REMEDIAL ACTION PLAN****

CLEANUP RESP: RESPONSIBLE PARTY
ORDER COMPL DATE: 6/26/95
ACTUAL COMPL DATE: 6/26/95
PAYMENT DATE:
ACTUAL COST:

****REMEDIAL ACTION****

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COST:
YEARS TO COMPL:

****SITE REHABILITATION COMPLETION REPORT****

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

****SOURCE REMOVAL****

CLEANUP RESP: RESPONSIBLE PARTY
ORAL DATE:
WRITTEN DATE:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
COST:
COMPLETION STATUS:



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 3 of 9

FACILITY ID NUMBER, NAME AND LOCATION:

8520488
CIRCLE K #7475
27707 HWY 54 W
ZEPHYRHILLS, FL 33543

OWNERSHIP INFORMATION:

CIRCLE K STORES INC
5650 BRECKENRIDGE PARK DR #300
TAMPA, FL 33610-
OWNER CONTACT TEL #: 8137445266
OWNER CONTACT: STEVE BELIN

MAP ID NUMBER:

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FAC TEL #: 8136898161
FAC OPERATOR: CIRCLE K CORP
FACILITY CLEANUP STATUS: ONGO

FACILITY STATUS: OPEN
FACILITY TYPE: RETAIL STATION

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 12/09/87 DISCHARGE ID: 22232

SCORE/RANK: 45 / SCORE EFF DATE: 9/19/99 INSPECTION DATE: 10/12/88
LEAD AGENCY: BUREAU OF WASTE CLEANUP CLEANUP WORK STATUS: ACTIVE COMB CLEANUP W/DIS ID:
INFO SOURCE: EDI FDEP 62-770 DESCR: NEW CLEANUP REQUIRED
DISCH CLNUP STATUS: 12/21/00 SA ONGOING- SITE ASSESSMENT CLEANUP ACTIVITY IN PROGRESS

SOIL: N SUR WATER: N GR WATER: N MON WELL: Y # DW WELLS CONTAMINATED: 0

POLLUTANT TYPE AND ESTIMATED GALLONS (IF REPORTED):
1) LEADED GAS/ 2) /
3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****
(for specific discharge noted above)

CLNUP PROG: EDI-EARLY DETECTION INCENTIVE CLNUP LEAD: REIMBURSEMENT
APPL RCVD: 7/11/88 ELIG STATUS: ELIGIBLE ELIG STATUS DATE: 9/06/91 ELIG REDETERMINED?: N

FREE PRODUCT REMOVAL? (Y/N): Y SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT? (Y/N): OTHER TREATMENT?:

****SITE ASSESSMENT****

****REMEDIAL ACTION PLAN****

****REMEDIAL ACTION****

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COMPLETION DATE: 12/12/95
PAYMENT DATE:
ACTUAL COST:

CLEANUP RESP: RESPONSIBLE PARTY
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COST:
YEARS TO COMPL:

****SITE REHABILITATION COMPLETION REPORT****

****SOURCE REMOVAL****

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

CLEANUP RESP: RESPONSIBLE PARTY
ORAL DATE:
WRITTEN DATE: 3/16/88
ACTUAL COMPLETION DATE:
PAYMENT DATE: 8/25/93
COST: \$19,291.71
COMPLETION STATUS:



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 4 of 9

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MAP ID NUMBER:

FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

8520488 - HISTORICAL ENTRY
CIRCLE K #7475
HWY 54 & I-75
ZEPHYRHILLS, FL 33599

CIRCLE K STORES INC
5650 BRECKENRIDGE PARK DR #300
TAMPA, FL 33610
OWNER CONTACT TEL #: 8137445266
OWNER CONTACT: STEVE BELIN

FAC TEL #: 8136898161

FACILITY STATUS: OPEN

FAC OPERATOR: CIRCLE K CORP

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS: ONGOING--AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE

*******DISCHARGE INFORMATION*******

DISCHARGE DATE: 12/09/87 DISCHARGE ID: 102244

SCORE/RANK: / SCORE EFF DATE: INSPECTION DATE:
LEAD AGENCY: BUREAU OF WASTE CLEANUP CLEANUP WORK STATUS: COMB CLEANUP W/DIS ID:
INFO SOURCE: EDI FDEP 62-770 DESCR: NEW CLEANUP REQUIRED
DISCH CLNUP STATUS: SA ONGOING- SITE ASSESSMENT CLEANUP ACTIVITY IN PROGRESS

SOIL: N SUR WATER: N GR WATER: N MON WELL: Y # DW WELLS CONTAMINATED: 0
POLLUTANT TYPE AND ESTIMATED 1) LEADED GAS/ 2) / 0
GALLONS (IF REPORTED): 3) / 0 4) / 0
5) / 0 6) /
7) / 8) /

*******CLEANUP INFORMATION*******

(for specific discharge noted above)

CLNUP PROG: CLNUP LEAD:
APPL RCVD: ELIG STATUS: ELIG STATUS DATE: ELIG REDETERMINED?:
FREE PRODUCT REMOVAL? (Y/N): SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT? (Y/N): OTHER TREATMENT?:

****SITE ASSESSMENT****

****REMEDIAL ACTION PLAN****

****REMEDIAL ACTION****

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COMPLETION DATE: 11/2/95
PAYMENT DATE:
ACTUAL COST:

CLEANUP RESP:
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

CLEANUP RESP:
ACTUAL COST:
YEARS TO COMPL:

****SITE REHABILITATION COMPLETION REPORT****

****SOURCE REMOVAL****

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

CLEANUP RESP:
ORAL DATE:
WRITTEN DATE:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
COST:
COMPLETION STATUS:



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 5 of 9

FACILITY ID NUMBER, NAME AND LOCATION:

8515078
CITGO-NII
27829 HWY 54 W
WESLEY CHAPEL, FL 33543

OWNERSHIP INFORMATION:

NILOS INVESTMENTS INC
27829 HWY 54 W
WESLEY CHAPEL, FL 34249-
OWNER CONTACT TEL #: 8139730133
OWNER CONTACT: NILOS KORODIMAS

MAP ID NUMBER:

16

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FAC TEL #: 8139730133

FACILITY STATUS: OPEN

FAC OPERATOR: NILOS KORODIMAS

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS: ONGOING--AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 9/09/94 DISCHARGE ID: 22305

SCORE/RANK: 30 / 4526

SCORE EFF DATE: 11/4/97

INSPECTION DATE:

LEAD AGENCY: DISTRICT

CLEANUP WORK STATUS: ACTIVE

COMB CLEANUP W/DIS ID:

INFO SOURCE: DISCHARGE NOTIFICATION

FDEP 62-770 DESCR: NEW CLEANUP REQUIRED

DISCH CLNUP STATUS: 10/9/00

DISCHARGE NOTIFICATION RECEIVED

CONTAMINATED MEDIA SOIL: SUR WATER: GR WATER: MON WELL: # DW WELLS CONTAMINATED:

POLLUTANT TYPE AND ESTIMATED GALLONS (IF REPORTED):

- 1) UNLEADED GAS/
- 3) /
- 5) /
- 7) /

- 2) /
- 4) /
- 6) /
- 8) /

*****CLEANUP INFORMATION*****

(for specific discharge noted above)

CLNUP PROG: PCPP-PETROLEUM CONTAMINATION PARTICIPATION PROGRAM

CLNUP LEAD: PREAPPROVAL

APPL RCVD:

ELIG STATUS:

ELIG STATUS DATE:

ELIG REDETERMINED?: N

FREE PRODUCT REMOVAL? (Y/N):

SOIL REMOVAL? (Y/N):

SOIL TONNAGE REMOVED:

SOIL TREATMENT? (Y/N):

OTHER TREATMENT?:

****SITE ASSESSMENT****

CLEANUP RESP:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

****REMEDIAL ACTION PLAN****

CLEANUP RESP:
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

****REMEDIAL ACTION****

CLEANUP RESP:
ACTUAL COST:
YEARS TO COMPL:

****SITE REHABILITATION COMPLETION REPORT****

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

****SOURCE REMOVAL****

CLEANUP RESP:
ORAL DATE:
WRITTEN DATE:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
COST:
COMPLETION STATUS:



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 6 of 9

FACILITY ID NUMBER, NAME AND LOCATION:

8515078
CITGO-NII
27829 HWY 54 W
WESLEY CHAPEL, FL 33543-

OWNERSHIP INFORMATION:

NILOS INVESTMENTS INC
27829 HWY 54 W
WESLEY CHAPEL, FL 34249-
OWNER CONTACT TEL #: 8139730133
OWNER CONTACT: NILOS KORODIMAS

MAP ID NUMBER:

16

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FAC TEL #: 8139730133

FACILITY STATUS: OPEN

FAC OPERATOR: NILOS KORODIMAS

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS: ONGO

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 11/21/88 DISCHARGE CODE: 22306

SCORE/RANK: 30 / SCORE EFF DATE: 1/6/98 INSPECTION DATE: 4/10/90
LEAD AGENCY: BUREAU OF WASTE CLEANUP CLEANUP WORK STATUS: ACTIVE COMB CLEANUP W/DIS ID:
INFO SOURCE: EDI FDEP 62-770 DESCR: NEW CLEANUP REQUIRED
DISCH CLNUP STATUS: 10/9/00 SA ONGOING- SITE ASSESSMENT CLEANUP ACTIVITY IN PROGRESS

SOIL: N SUR WATER: N GR WATER: N MON WELL: Y # DW WELLS CONTAMINATED: 0

POLLUTANT TYPE AND ESTIMATED GALLONS (IF REPORTED):
1) UNKNOWN/NOT REPORTED/ 2) /
3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****
(for specific discharge noted above)

CLNUP PROG: EDI-EARLY DETECTION INCENTIVE CLNUP LEAD: REIMBURSEMENT
APPL RCVD: 12/19/88 ELIG STATUS: PARTIAL ELIG STATUS DATE: 11/09/94 ELIG REDETERMINED?: N

FREE PRODUCT REMOVAL? (Y/N): SOIL REMOVAL? (Y/N): Y SOIL TONNAGE REMOVED:
SOIL TREATMENT? (Y/N): OTHER TREATMENT?:

****SITE ASSESSMENT****

****REMEDIAL ACTION PLAN****

****REMEDIAL ACTION****

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COMPLETION DATE: 4/14/95
PAYMENT DATE:
ACTUAL COST:

CLEANUP RESP: RESPONSIBLE PARTY
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COST:
YEARS TO COMPL:

****SITE REHABILITATION COMPLETION REPORT****

****SOURCE REMOVAL****

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

CLEANUP RESP: RESPONSIBLE PARTY
ORAL DATE:
WRITTEN DATE:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
COST:
COMPLETION STATUS:



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 7 of 9

FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

MAP ID NUMBER:

16

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8515078
CITGO-NII
27829 HWY 54 W
WESLEY CHAPEL, FL 33543

NILOS INVESTMENTS INC
27829 HWY 54 W
WESLEY CHAPEL, FL 34249-
OWNER CONTACT TEL #: 8139730133
OWNER CONTACT: NILOS KORODIMAS

FAC TEL #: 8139730133
FAC OPERATOR: NILOS KORODIMAS
FACILITY CLEANUP STATUS: ONGO

FACILITY STATUS: OPEN
FACILITY TYPE: RETAIL STATION

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 2/02/99 DISCHARGE ID: 51163

SCORE/RANK: / SCORE EFF DATE: INSPECTION DATE: 2/9/99
LEAD AGENCY: DISTRICT CLEANUP WORK STATUS: ACTIVE COMB CLEANUP W/DIS ID:
INFO SOURCE: DISCHARGE NOTIFICATION FDEP 62-770 DESCR: NEW CLEANUP REQUIRED
DISCH CLNUP STATUS: 1/26/01 SA ONGOING- SITE ASSESSMENT CLEANUP ACTIVITY IN PROGRESS

CONCENTRATED MEDIA SOIL: Y SUR WATER: GR WATER: Y MON WELL: # DW WELLS CONTAMINATED:
POLLUTANT TYPE AND ESTIMATED GALLONS (IF REPORTED):
1) UNLEADED GAS/ 2) /
3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****
(for specific discharge noted above)

CLNUP PROG: CLNUP LEAD:
APPL RCVD: ELIG STATUS: ELIG STATUS DATE: ELIG REDETERMINED?:
FREE PRODUCT REMOVAL? (Y/N): SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT? (Y/N): OTHER TREATMENT?:

****SITE ASSESSMENT****

****REMEDIAL ACTION PLAN****

****REMEDIAL ACTION****

CLEANUP RESP: CLEANUP RESP: CLEANUP RESP:
ACTUAL COMPLETION DATE: ORDER COMPL DATE: ACTUAL COST:
PAYMENT DATE: ACTUAL COMPL DATE: YEARS TO COMPL:
ACTUAL COST: PAYMENT DATE:
ACTUAL COST:

****SITE REHABILITATION COMPLETION REPORT****

****SOURCE REMOVAL****

ACTION TYPE: CLEANUP RESP:
SUBMIT DATE: ORAL DATE:
REVIEW DATE: WRITTEN DATE:
ISSUE DATE: ACTUAL COMPLETION DATE:
STATUS EFFECTIVE DATE: PAYMENT DATE:
COMMENTS: COST:
COMPLETION STATUS:



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 8 of 9

FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

MAP ID NUMBER:

16

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8515078 HISTORICAL ENTRY
CHEVRON #47128-TILLACK'S
I-75 & SR 54
WESLEY CHAPEL, FL

CHEVRON USA PRODUCTS CO
PO BOX 1706
ATLANTA, GA 303011706
OWNER CONTACT TEL #: 4049843000
OWNER CONTACT: CHERYL TENEYCK

FAC TEL #: 8139730133

FACILITY STATUS:

FAC OPERATOR:

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS:

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 11/21/88 DISCHARGE ID: 101519

SCORE/RANK: / SCORE EFF DATE: INSPECTION DATE:
LEAD AGENCY: BUR WASTE CLEANUP CLEANUP WORK STATUS: COMB CLEANUP W/DIS ID:
INFO SOURCE: EDI FDEP 62-770 DESCR: NEW C/U REQUIRED
DISCH CLNUP STATUS:

SOIL: N SUR WATER: N GR WATER: N MON WELL: Y # DW WELLS CONTAMINATED:
POLLUTANT TYPE AND ESTIMATED 1) UNKNOWN/NOT REPOR/ 2) /
GALLONS (IF REPORTED): 3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****
(for specific discharge noted above)

CLNUP PROG: CLNUP LEAD:
APPL RCVD: ELIG STATUS: ELIG STATUS DATE: ELIG REDETERMINED?:
FREE PRODUCT REMOVAL?(Y/N): SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N): OTHER TREATMENT?:

****SITE ASSESSMENT****

****REMEDIAL ACTION PLAN****

****REMEDIAL ACTION****

CLEANUP RESP: CLEANUP RESP: CLEANUP RESP:
ACTUAL COMPLETION DATE: ORDER COMPL DATE: ACTUAL COST:
PAYMENT DATE: ACTUAL COMPL DATE: YEARS TO COMPL:
ACTUAL COST: PAYMENT DATE:
ACTUAL COST:

****SITE REHABILITATION COMPLETION REPORT****

****SOURCE REMOVAL****

ACTION TYPE: CLEANUP RESP:
SUBMIT DATE: ORAL DATE:
REVIEW DATE: WRITTEN DATE:
ISSUE DATE: ACTUAL COMPLETION DATE:
STATUS EFFECTIVE DATE: PAYMENT DATE:
COMMENTS: COST:
COMPLETION STATUS:



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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

10/29/01

(PCTS)

PCTS Page 9 of 9

FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

MAP ID NUMBER:

16

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8515078 - HISTORICAL ENTRY
CHEVRON #47128-TILLACK'S
I-75 & SR 54
WESLEY CHAPEL, FL

CHEVRON USA PRODUCTS CO
PO BOX 1706
ATLANTA, GA 303011706
OWNER CONTACT TEL #: 4049843000
OWNER CONTACT: CHERYL TENEYCK

FAC TEL #: 8139730133

FACILITY STATUS:

FAC OPERATOR:

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS:

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 9/09/94 DISCHARGE ID: 101520

SCORE/RANK: / SCORE EFF DATE: INSPECTION DATE:
LEAD AGENCY: DISTRICT CLEANUP WORK STATUS: COMB CLEANUP W/DIS ID:
INFO SOURCE: DISCHARGE NOTIFICATION FDEP 62-770 DESCR: NEW C/U REQUIRED
DISCH CLNUP STATUS:

CONDENSED MEDIA: SOIL: N SUR WATER: N GR WATER: N MON WELL: Y # DW WELLS CONTAMINATED:
POLLUTANT TYPE AND ESTIMATED 1) UNLEADED GAS/ 2) /
GALLONS (IF REPORTED): 3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****
(for specific discharge noted above)

CLNUP PROG: CLNUP LEAD:
APPL RCVD: ELIG STATUS: ELIG STATUS DATE: ELIG REDETERMINED?:
FREE PRODUCT REMOVAL?(Y/N): SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N): OTHER TREATMENT?:

****SITE ASSESSMENT****

****REMEDIAL ACTION PLAN****

****REMEDIAL ACTION****

CLEANUP RESP: CLEANUP RESP: CLEANUP RESP:
ACTUAL COMPLETION DATE: ORDER COMPL DATE: ACTUAL COST:
PAYMENT DATE: ACTUAL COMPL DATE: YEARS TO COMPL:
ACTUAL COST: PAYMENT DATE:
ACTUAL COST:

****SITE REHABILITATION COMPLETION REPORT****

****SOURCE REMOVAL****

ACTION TYPE: CLEANUP RESP:
SUBMIT DATE: ORAL DATE:
REVIEW DATE: WRITTEN DATE:
ISSUE DATE: ACTUAL COMPLETION DATE:
STATUS EFFECTIVE DATE: PAYMENT DATE:
COMMENTS: COST:
COMPLETION STATUS:



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**FDEP STORAGE TANKS REPORT
(TANKS)**

10/29/01

TANKS Page 1 of 12

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The Florida Department of Environmental Protection (FDEP) STORAGE TANKS Report identifies those facilities or locations that have registered aboveground and/or underground storage tanks pursuant to the notification requirements found in applicable chapters of the Florida Administrative Code. This Report is generated from the FDEP Storage Tank and Contamination Monitoring Database. In addition, this report contains facilities or locations that have registered with the FDEP as current and former dry cleaning operations. The EDM TANKS report contains tank system details including the age of the tank(s), capacity, construction type, contents, type of leak monitoring system and current status (i.e. active or removed). An explanation of codes for tank construction, monitoring and piping is provided on the following page.

The EDM TANKS report includes TANKS records identified within your study area. The appearance of a site on this list does not necessarily indicate environmental problems at the site, but rather that the site is (or was) engaged in the storage of petroleum-related or dry cleaning-related products, and therefore may have the potential to cause environmental degradation if such products have been mishandled or otherwise released in an uncontrolled manner.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

Please see the following page for an explanation of tank construction, monitoring and piping codes.

Agency File Date: 7/22/01

Received by EDM: 7/24/01

EDM Database Updated: 7/26/01



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FDEP STORAGE TANKS REPORT (TANKS)

10/29/01

TANKS Page 2 of 12

EXPLANATION OF CODES

CONSTRUCTION TYPE CODES

A = BALL CHECK VALVE
B = INTERNAL LINING
C = STEEL
D = UNKNOWN
E = FIBERGLASS
F = FIBERGLASS-CLAD STEEL
G = CATHODIC PROTECTION-SACRIFICIAL ANODE
H = CATHODIC PROTECTION -IMPRESSED CURRENT
I = DBL WALL/SINGLE MATERIAL
J = SYNTHETIC LINER IN TANK EXCAVATION
K = AST CONTAINMENT: CONCRETE /SYNTHETIC MATERIAL AREA
L = COMPARTMENTED
M = SPILL CONTAINMENT BUCKET
N = FLOW SHUT OFF
O = TIGHT FILL
P = LEVEL GAUGES, HI LEVEL ALARMS
Q = OTHER DER APPROVED PROTECTION METHOD
R = DBL WALL/DUAL MATERIAL/ (TANK "JACKET")
S = OTHER DEP APPROVED SECONDARY CONTAINMENT SYSTEM
T = SMALL USE TANK
U = FIELD ERECTED TANK
V = PIPELESS UST W/SECONDARY CONTAINMENT
W = BUILT ON SUPPORTS
X = CONCRETE
Y = POLYETHYLENE
Z = OTHER DEP APPROVED TANK MATERIAL

PIPING TYPE CODES

A = ABOVE GROUND-NO CONTACT W/SOIL
B = STEEL OR GALVANIZED METAL
C = FIBERGLASS
D = EXTERNAL PROTECTIVE COATING
E = CATHODIC PROTECTION (SACRIFICIAL ANODE / IMPRESSED CURRENT)
F = DBLWALL/SINGLE MATERIAL
G = SYNTHETIC OR BOX/TRENCH LINER
H = AIRPORT/SEAPORT HYDRANT SYSTEM
I = SUCTION PIPING SYSTEM
J = PRESSURIZED PIPING SYSTEM
K = DISPENSER LINERS
L = BULK PRODUCT SYSTEM
M = DOUBLE WALL / DUAL MATERIAL (PIPE "JACKET")
N = APPROVED SYNTHETIC MATERIAL
O = SEVERE VIOLATION
P = INTERNAL PIPING WITHIN INTERNAL SUMP RISER
V = VIOLATION
X = NO PIPING ASSOCIATED WITH TANK
Y = UNKNOWN
Z = OTHER DEP APPROVED PIPING MATERIAL

LEAK MONITORING CODES

1 = CONTINUOUS ELECTRONIC SENSING EQUIPMENT
2 = VISUAL INSPECTIONS OF PIPING SUMPS
3 = ELECTRONIC MONITORING OF PIPING SUMPS
4 = VISUAL INSPECTIONS OF DISPENSING LINERS
5 = ELECTRONIC MONITORING OF DISPENSER LINERS
6 = EXTERNAL PIPING MONITORING
7 = AUTOMATICALLY SAMPLED WELLS
8 = MANUALLY SAMPLED WELLS
A = SITE SUITABILITY PLAN
B = SITE SUITABILITY PLAN EXEMPTION
C = GROUNDWATER MONITOR PLAN
D = SPCC PLAN
E = INTERSTITIAL MONITORING UST LINERS
F = INTERSTITIAL SPACE-DOUBLE WALL TANK
G = ELECTRONIC LINE LEAK DETECTOR W/FLOW SHUTOFF
H = MECHANICAL LINE LEAK DETECTOR
I = NOT REQUIRED-SEE RULE FOR EXEMPTIONS
J = INTERSTITIAL MONITORING-PIPING LINER
K = INTERSTITIAL MONITORING- DOUBLE WALL PIPING
L = AUTOMATIC TANK GAUGING SYSTEM (USTS)
M = MANUAL TANK GAUGING SYSTEM (USTS)
N = GROUNDWATER MONITORING SYSTEM
O = VAPOR MONITORING SYSTEM
P = VAPOR MONITORING W/DILUTION PROCEDURES
Q = VISUAL INSPECTION OF AST SYSTEMS
R = INTERSTITIAL MONITORING OF TANK BOTTOM
S = STATISTICAL INVENTORY RECONCILIATION (SIR/USTS)
T = ANNUAL TIGHTNESS TEST WITH INVENTORY (UST)
U = BULK PIPING PRESSURE TEST
V = SUCTION PUMP CHECK VALVE
W = FIBER-OPTIC TECHNOLOGIES
X = NONE
Y = UNKNOWN
Z = OTHER DEP APPROVED MONITORING METHOD



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FDEP STORAGE TANKS REPORT
(TANKS)

10/29/01

TANKS Page 3 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

8736769
RAULERSON & SON INC
10611 RAULERSON RANCH RD
TAMPA, FL 33637

MAP ID NUMBER:

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OWNERSHIP INFORMATION:

RAULERSON & SON INC
PO BOX 290137
TAMPA, FL 33637

FACILITY TEL #: 813-985-6886

FACILITY OPERATOR:

FACILITY TYPE: Agricultural

FACILITY CLEANUP STATUS:

CONTACT TEL #: 813-985-6886

CONTACT: JOHNNIE RAULERSON

FACILITY STATUS: OPEN

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
500			Vehicular Diesel	UNDERGROUND	IN SERVICE
<u>CONSTRUCTION TYPE(see code sheet):</u> D					
<u>PIPING TYPE(see code sheet):</u> Y					
<u>LEAK MONITORING(see code sheet):</u> Y					

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
1000		01-JAN-1989	Vehicular Diesel	ABOVEGROUND	IN SERVICE 01-JAN-1989
<u>CONSTRUCTION TYPE(see code sheet):</u> CT					
<u>PIPING TYPE(see code sheet):</u> A					
<u>LEAK MONITORING(see code sheet):</u> I					



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FDEP STORAGE TANKS REPORT

(TANKS)

10/29/01

TANKS Page 4 of 12

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FACILITY ID NUMBER, NAME AND LOCATION:
 8736726
 MITCHELL ASSOCIATES, INC., BOB
 8432 E FOWLER AVE
 TAMPA, FL 33637

OWNERSHIP INFORMATION:
MAP ID NUMBER:

FACILITY TEL #: 813-985-2642
FACILITY OPERATOR:
FACILITY TYPE: Fuel user/Non-retail
FACILITY CLEANUP STATUS:

CONTACT TEL #:
CONTACT:
FACILITY STATUS: CLOSED

<u>TANK #:</u>	<u>TANK VOL.(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
500			Leaded Gas	ABOVEGROUND	REMOVED
CONSTRUCTION TYPE(see code sheet): D PIPING TYPE(see code sheet): Y LEAK MONITORING(see code sheet): Y					

<u>TANK #:</u>	<u>TANK VOL.(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
1000			Leaded Gas	UNDERGROUND	REMOVED
CONSTRUCTION TYPE(see code sheet): D PIPING TYPE(see code sheet): Y LEAK MONITORING(see code sheet): Y					

<u>TANK #:</u>	<u>TANK VOL.(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
1000			Leaded Gas	UNDERGROUND	REMOVED
CONSTRUCTION TYPE(see code sheet): D PIPING TYPE(see code sheet): Y LEAK MONITORING(see code sheet): Y					



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FDEP STORAGE TANKS REPORT

(TANKS)

10/29/01

TANKS Page 5 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

9802116
 HESS #09277
 BRUCE B DOWNS BLVD & I-75
 TAMPA FL 33647

MAP ID NUMBER:

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OWNERSHIP INFORMATION:

AMERADA HESS CORP
 1 HESS PLAZA ATTN: JANICE FLAHE
 WOODBRIDGE, NJ 33647

FACILITY TEL #: 813-903-0523
FACILITY OPERATOR:
FACILITY TYPE: Retail Station
FACILITY CLEANUP STATUS:

CONTACT TEL #: 732-750-6350
CONTACT: JANICE FLAHERTY
FACILITY STATUS: OPEN

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
10000		01-AUG-1999	Unleaded Gas	UNDERGROUND	IN SERVICE 01-AUG-1999
<p><small>CONSTRUCTION TYPE(see code sheet):</small> EMIBN <small>PIPING TYPE(see code sheet):</small> CDFJK <small>LEAK MONITORING(see code sheet):</small> EFK3GL</p>					
10000		01-AUG-1999	Unleaded Gas	UNDERGROUND	IN SERVICE 01-AUG-1999
<p><small>CONSTRUCTION TYPE(see code sheet):</small> EMIBN <small>PIPING TYPE(see code sheet):</small> CDEJK <small>LEAK MONITORING(see code sheet):</small> EFK3GL</p>					
10000		01-AUG-1999	Unleaded Gas	UNDERGROUND	IN SERVICE 01-AUG-1999
<p><small>CONSTRUCTION TYPE(see code sheet):</small> EMIBN <small>PIPING TYPE(see code sheet):</small> CDFJK <small>LEAK MONITORING(see code sheet):</small> EFK3GL</p>					
10000		01-AUG-1999	Vehicular Diesel	UNDERGROUND	IN SERVICE 01-AUG-1999
<p><small>CONSTRUCTION TYPE(see code sheet):</small> EMIBN <small>PIPING TYPE(see code sheet):</small> CDEJK <small>LEAK MONITORING(see code sheet):</small> EFK3GL</p>					



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FDEP STORAGE TANKS REPORT

(TANKS)

10/29/01

TANKS Page 6 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

8624903
 TAMPA CITY WATER DEPT., PRODUCTION DIV.
 17101 HWY 581
 TAMPA, FL 33647

MAP ID NUMBER:



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OWNERSHIP INFORMATION:

TAMPA WATER DEPARTMENT
 306 E JACKSON ST, 5TH FLOOR
 TAMPA, FL 33647

FACILITY TEL #: 813-231-5256

FACILITY OPERATOR:

FACILITY TYPE: Fuel user/Non-retail

FACILITY CLEANUP STATUS:

CONTACT TEL #: 813-274-7103

CONTACT: MARK OURAL

FACILITY STATUS: OPEN

TANK #: TANK VOL.(GALS): INST.DATE: TANK CONTENTS: TANK POSITION: TANK STATUS (as of...):

12000 01-JUL-1978 Kerosene UNDERGROUND REMOVED 31-AUG-1989

CONSTRUCTION TYPE(see code sheet): C

PIPING TYPE(see code sheet): C

LEAK MONITORING(see code sheet): Y

TANK #: TANK VOL.(GALS): INST.DATE: TANK CONTENTS: TANK POSITION: TANK STATUS (as of...):

12000 01-AUG-1989 Diesel-Emergen Generator ABOVEGROUND IN SERVICE

CONSTRUCTION TYPE(see code sheet): CKP

PIPING TYPE(see code sheet): A

LEAK MONITORING(see code sheet): Z

TANK #: TANK VOL.(GALS): INST.DATE: TANK CONTENTS: TANK POSITION: TANK STATUS (as of...):

1000 01-JUL-1981 Unleaded Gas UNDERGROUND REMOVED 31-AUG-1989

CONSTRUCTION TYPE(see code sheet): C

PIPING TYPE(see code sheet): C

LEAK MONITORING(see code sheet): Y

TANK #: TANK VOL.(GALS): INST.DATE: TANK CONTENTS: TANK POSITION: TANK STATUS (as of...):

1000 01-AUG-1989 Unleaded Gas ABOVEGROUND IN SERVICE

CONSTRUCTION TYPE(see code sheet): CK

PIPING TYPE(see code sheet): ABJ

LEAK MONITORING(see code sheet): Z

TANK #: TANK VOL.(GALS): INST.DATE: TANK CONTENTS: TANK POSITION: TANK STATUS (as of...):

12000 01-APR-1995 Diesel-Emergen Generator ABOVEGROUND IN SERVICE 01-APR-1995

CONSTRUCTION TYPE(see code sheet): CMNPR

PIPING TYPE(see code sheet): BA

LEAK MONITORING(see code sheet): FZ



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FDEP STORAGE TANKS REPORT (TANKS)

10/29/01

TANKS Page 7 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

9046575
TEXACO - WESLEY CHAPEL
28014 CR 54
WESLEY CHAPEL, FL 34249

MAP ID NUMBER:



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OWNERSHIP INFORMATION:

RADIANT GROUP LLC
1302 N 19TH ST #300
TAMPA, FL 34249

FACILITY TEL #:
FACILITY OPERATOR:
FACILITY TYPE: Retail Station
FACILITY CLEANUP STATUS:

CONTACT TEL #: 813-247-4731
CONTACT: JOHN P MYERS JR
FACILITY STATUS: OPEN

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
10000		01-MAY-1990	Unleaded Gas	UNDERGROUND	IN SERVICE
<u>CONSTRUCTION TYPE(see code sheet):</u> FMNO					
<u>PIPING TYPE(see code sheet):</u> CFJ					
<u>LEAK MONITORING(see code sheet):</u> 2HS					

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
10000		01-MAY-1990	Unleaded Gas	UNDERGROUND	IN SERVICE
<u>CONSTRUCTION TYPE(see code sheet):</u> FMNO					
<u>PIPING TYPE(see code sheet):</u> JCF					
<u>LEAK MONITORING(see code sheet):</u> 2HS					

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
10000		01-MAY-1990	Unleaded Gas	UNDERGROUND	IN SERVICE
<u>CONSTRUCTION TYPE(see code sheet):</u> FMNO					
<u>PIPING TYPE(see code sheet):</u> CFJ					
<u>LEAK MONITORING(see code sheet):</u> 2HS					



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FDEP STORAGE TANKS REPORT

(TANKS)

10/29/01

TANKS Page 8 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

9100181
RACETRAC #407
28053 HWY 54
ZEPHYRHILLS, FL 33543

MAP ID NUMBER:

10

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OWNERSHIP INFORMATION:

RACETRAC PETROLEUM INC
PO BOX 105035 ATTN: LISA CIOTOL
ATLANTA, GA 33543

FACILITY TEL #: 770-431-7600
FACILITY OPERATOR:
FACILITY TYPE: Retail Station
FACILITY CLEANUP STATUS:

CONTACT TEL #: 770-431-7600
CONTACT: LISA CIOTOLI
FACILITY STATUS: OPEN

TANK #: **TANK VOL(GALS):** **INST.DATE:** **TANK CONTENTS:** **TANK POSITION:** **TANK STATUS (as of...):**

12000 01-DEC-1990 Unleaded Gas UNDERGROUND IN SERVICE

CONSTRUCTION TYPE(see code sheet): AMFOR

PIPING TYPE(see code sheet): CFJ

LEAK MONITORING(see code sheet): FG24

TANK #: **TANK VOL(GALS):** **INST.DATE:** **TANK CONTENTS:** **TANK POSITION:** **TANK STATUS (as of...):**

12000 01-DEC-1990 Unleaded Gas UNDERGROUND IN SERVICE

CONSTRUCTION TYPE(see code sheet): AMFOR

PIPING TYPE(see code sheet): CFJ

LEAK MONITORING(see code sheet): FG24

TANK #: **TANK VOL(GALS):** **INST.DATE:** **TANK CONTENTS:** **TANK POSITION:** **TANK STATUS (as of...):**

20000 01-NOV-2000 Unleaded Gas UNDERGROUND IN SERVICE 01-NOV-2000

CONSTRUCTION TYPE(see code sheet):

PIPING TYPE(see code sheet):

LEAK MONITORING(see code sheet):



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FDEP STORAGE TANKS REPORT

(TANKS)

10/29/01

TANKS Page 9 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

8520488
 CIRCLE K #7475
 27707 HWY 54 W
 ZEPHYRHILLS, FL 33543

MAP ID NUMBER:

14

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OWNERSHIP INFORMATION:

CIRCLE K STORES INC
 5650 BRECKENRIDGE PARK DR #300
 TAMPA, FL 33543

FACILITY TEL #: 813-689-8161
FACILITY OPERATOR:
FACILITY TYPE: Retail Station
FACILITY CLEANUP STATUS:

CONTACT TEL #: 813-744-5266
CONTACT: STEVE BELIN
FACILITY STATUS: OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
10120		01-JUL-1985	Unleaded Gas	UNDERGROUND	IN SERVICE
<p>CONSTRUCTION TYPE(see code sheet): MONAF PIPING TYPE(see code sheet): CJFK LEAK MONITORING(see code sheet): HSK24</p>					
10120		01-JUL-1985	Unleaded Gas	UNDERGROUND	IN SERVICE
<p>CONSTRUCTION TYPE(see code sheet): MONAF PIPING TYPE(see code sheet): CJFK LEAK MONITORING(see code sheet): HSK24</p>					
10120		01-JUL-1985	Unleaded Gas	UNDERGROUND	IN SERVICE
<p>CONSTRUCTION TYPE(see code sheet): MONAF PIPING TYPE(see code sheet): CJFK LEAK MONITORING(see code sheet): HSK24</p>					
10120		01-JUL-1985	Vehicular Diesel	UNDERGROUND	IN SERVICE
<p>CONSTRUCTION TYPE(see code sheet): MONAF PIPING TYPE(see code sheet): CJFK LEAK MONITORING(see code sheet): HSK24</p>					



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FDEP STORAGE TANKS REPORT

(TANKS)

10/29/01

TANKS Page 10 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

8520488 ~~HISTORICAL ENTRY~~
CIRCLE K #7475
HWY 54 & I-75
ZEPHYRHILLS, FL 33599

MAP ID NUMBER:

14

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OWNERSHIP INFORMATION:

CIRCLE K STORES INC
5650 BRECKENRIDGE PARK DR #200
TAMPA, FL 33610

FACILITY TEL #: 8136898161

CONTACT TEL #: 8137445266

FACILITY OPERATOR: CIRCLE K CORP

CONTACT: STEVE BELIN

FACILITY TYPE: RETAIL STATION

FACILITY STATUS: OPEN

FACILITY CLEANUP STATUS: ONGO- ONGOING (AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE).

TANK #: **TANK VOL.(GALS):** **INST.DATE:** **TANK CONTENTS:** **TANK POSITION:** **TANK STATUS (as of...):**
10120 7/01/85 UNLEADED GAS UNDERGRO IN SERVICE
CONSTRUCTION TYPE(see code sheet): GMOCN
PIPING TYPE(see code sheet): CJ
LEAK MONITORING(see code sheet): HS

TANK #: **TANK VOL.(GALS):** **INST.DATE:** **TANK CONTENTS:** **TANK POSITION:** **TANK STATUS (as of...):**
10120 7/01/85 UNLEADED GAS UNDERGRO IN SERVICE
CONSTRUCTION TYPE(see code sheet): GMOCN
PIPING TYPE(see code sheet): CJ
LEAK MONITORING(see code sheet): HS

TANK #: **TANK VOL.(GALS):** **INST.DATE:** **TANK CONTENTS:** **TANK POSITION:** **TANK STATUS (as of...):**
10120 7/01/85 UNLEADED GAS UNDERGRO IN SERVICE
CONSTRUCTION TYPE(see code sheet): GMOCN
PIPING TYPE(see code sheet): CJ
LEAK MONITORING(see code sheet): HS

TANK #: **TANK VOL.(GALS):** **INST.DATE:** **TANK CONTENTS:** **TANK POSITION:** **TANK STATUS (as of...):**
10120 7/01/85 VEHICULAR DIESEL UNDERGRO IN SERVICE
CONSTRUCTION TYPE(see code sheet): GMOCN
PIPING TYPE(see code sheet): CJ
LEAK MONITORING(see code sheet): HS



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FDEP STORAGE TANKS REPORT

(TANKS)

10/29/01

TANKS Page 11 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

8515078
 CITGO-NIT
 27829 HWY 54 W
 WESLEY CHAPEL, FL 33543

MAP ID NUMBER:

16

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OWNERSHIP INFORMATION:

NILOS INVESTMENTS INC
 27829 HWY 54 W
 WESLEY CHAPEL, FL 33543

FACILITY TEL #: 813-973-0133
 FACILITY OPERATOR:
 FACILITY TYPE: Retail Station
 FACILITY CLEANUP STATUS:

CONTACT TEL #: 813-973-0133
 CONTACT: NILOS KORODIMAS
 FACILITY STATUS: OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
10000		01-JUL-1979	Vehicular Diesel	UNDERGROUND	IN SERVICE
CONSTRUCTION TYPE(see code sheet): AEMN PIPING TYPE(see code sheet): CJ LEAK MONITORING(see code sheet): SHN					
10000		01-JUL-1983	Unleaded Gas	UNDERGROUND	IN SERVICE
CONSTRUCTION TYPE(see code sheet): AEMN PIPING TYPE(see code sheet): CJ LEAK MONITORING(see code sheet): SHN					
10000		01-JUL-1983	Unleaded Gas	UNDERGROUND	IN SERVICE
CONSTRUCTION TYPE(see code sheet): AEMN PIPING TYPE(see code sheet): CJ LEAK MONITORING(see code sheet): SHN					
10000		01-JUL-1983	Unleaded Gas	UNDERGROUND	IN SERVICE
CONSTRUCTION TYPE(see code sheet): AEMN PIPING TYPE(see code sheet): CJ LEAK MONITORING(see code sheet): SHN					
1000		01-JAN-1983	Waste Oil	UNDERGROUND	REMOVED 30-JUN-1991
CONSTRUCTION TYPE(see code sheet): E PIPING TYPE(see code sheet): C LEAK MONITORING(see code sheet): Y					



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FDEP STORAGE TANKS REPORT

(TANKS)

10/29/01

TANKS Page 12 of 12

FACILITY ID NUMBER, NAME AND LOCATION:

MAP ID NUMBER:

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8515078 --HISTORICAL ENTRY--
 CHEVRON #47128 TILLACK'S
 I-75 & SR 54
 WESLEY CHAPEL, FL

OWNERSHIP INFORMATION:

FACILITY TEL #: 8139730133
 FACILITY OPERATOR: TILLACK J
 FACILITY TYPE: A / Retail Station
 FACILITY CLEANUP STATUS:

CONTACT TEL #:
 CONTACT:
 FACILITY STATUS: OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
00010000		XX/79	VEHICULAR DIESEL	UNDER	In Service
CONSTRUCTION TYPE(see code sheet): AEMN					
PIPING TYPE(see code sheet): CJ					
LEAK MONITORING(see code sheet): BHN					

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
00010000		XX/83	UNLEADED GAS	UNDER	In Service
CONSTRUCTION TYPE(see code sheet): AEMN					
PIPING TYPE(see code sheet): CJ					
LEAK MONITORING(see code sheet): BHN					

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
00010000		XX/83	UNLEADED GAS	UNDER	In Service
CONSTRUCTION TYPE(see code sheet): AEMN					
PIPING TYPE(see code sheet): CJ					
LEAK MONITORING(see code sheet): BHN					

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
00010000		XX/83	UNLEADED GAS	UNDER	In Service
CONSTRUCTION TYPE(see code sheet): AEMN					
PIPING TYPE(see code sheet): CJ					
LEAK MONITORING(see code sheet): BHN					

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
00001000		01/83	WASTE OIL	UNDER	Removed
CONSTRUCTION TYPE(see code sheet): E					
PIPING TYPE(see code sheet): C					
LEAK MONITORING(see code sheet): Y					



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**FDEP HAZARDOUS WASTE COMPLIANCE AND
ENFORCEMENT TRACKING SYSTEM REPORT
(COMHAZ)**

10/29/01

COMHAZ Page 1 of 2

The Florida Department of Environmental Protection (FDEP) Hazardous Waste Compliance and Enforcement Tracking System (COMHAZ) list identifies facilities or locations that have notified the FDEP of their activities relative to the handling of hazardous wastes. These activities include hazardous waste generation, hazardous waste transportation, and hazardous waste treatment, storage and disposal, as defined by federally-recognized hazardous waste codes. Generators are typically divided into large-quantity and small-quantity generators (LQG and SQG, respectively). Hazardous waste facilities involved in the Treatment, Storage and Disposal are often grouped into a "TSD" category. The COMHAZ database is the State's equivalent of the US EPA RCRIS database.

The EDM COMHAZ report includes records identified in your study area that are listed as a RCRIS facility. The appearance of a site on this list does not necessarily indicate environmental problems on the site, but rather that the site is (or was) engaged in hazardous waste handling activities and therefore may have the potential to cause environmental degradation if hazardous wastes have been mishandled or otherwise released in an uncontrolled manner.

The EDM NON-MAPPED SITES APPENDIX is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed in either of these summary Appendices is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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Agency File Date: 5/2/01

Received by EDM: 5/7/01

EDM Database Updated: 5/9/01



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**FDEP HAZARDOUS WASTE COMPLIANCE AND
ENFORCEMENT TRACKING SYSTEM REPORT
(COMHAZ)**

10/29/01

COMHAZ Page 2 of 2

FACILITY ID NUMBER, NAME AND LOCATIO	MAILING ADDRESS AND CONTACT (IF REPORTED):	MAP ID NUMBER:
FLD984195438 EXXON CO USA #49131 HWY 54 & I-75 LAND O' LAKES, FL 34639	1200 TIMBERLOCH PL Contact: ALDA S POOL Contact Tel: 281-296-3579	12
STATUS: CLOSED	STATUS SOURCE: NOTIFICATION	

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FACILITY ID NUMBER, NAME AND LOCATIO	MAILING ADDRESS AND CONTACT (IF REPORTED):	MAP ID NUMBER:
FLD984254748 CIRCLE K #7475 US HWY 54/I-75 ZEPHYRHILLS, FL 33619	500 FAULKENBURG RD Contact: STEVE BELIN Contact Tel: 813-689-8161	13
STATUS: CONDITIONALLY EXEMPT SQG	STATUS SOURCE: NOTIFICATION	

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PROXIMAL RECORDS TABLE

10/29/01

Proximals Page 1 of 1

The Proximal Records Table includes mapped facilities that appear outside of the study area, but in the proximity of the research boundary. They are provided in a summary fashion to allow one to determine potential interest.

Generally, these sites may be of potential interest for three reasons:

- 1.) The location occurs so close to the research boundary that it merits inclusion in the evaluation.
- 2.) The site may be expansive with regard to the property boundary. The physical address of a landfill for example may occur outside of the research boundary, but the landfill boundary may extend into the research area. Large industrial complexes may also fall into this category.
- 3.) The U.S. Census Bureau data, from which our maps are created, is not always precise with regard to address information. A facility may therefore appear on the map outside of the research area, but actually fall within the research area. These inaccuracies are typically less than 500 feet. If you observe any such inaccuracies, we ask that you please notify us of the more precise location and we will use this information to improve our product.

If more specific information relative to one or more locations included in the Proximal Records Table is desired, please feel free to contact us and we will send you this information as an addendum to this report, at no additional cost.

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**** ENVIRONMENTAL DATA MANAGEMENT ****
STANDARD RADIUS REPORT

10/29/2001

PROXIMAL RECORDS TABLE

Page 1 of 2

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL					STATE				
		NC PL	NE FR CA SL IS	CR OR RI AS CT S	HI WI ND MS	TX RI IS	SS AT SS	SI IL DT WS ST	SP CA NT KS	TC AN H AZ	
1A)	9400278 TAMPA NORTH AERO PARK 4241 BIRDSONG BLVD LUTZ, FL. 33549									X	
2A)	9502685 WESLEY CHAPEL CLEAN & WASH 5331 VILLAGE MARKET WESLEY CHAPEL, FL. 33543-									X	
2A)	FL0001786722 WINN DIXIE 748 5351 VILLAGE MARKET WESLEY CHAPEL, FL. 34249				X						
2A)	FLR000013995 WINN DIXIE #748 5351 VILLAGE MARKET WESLEY CHAPEL, FL. 34249									X	
3A)	FLR000013995 WINN DIXIE #748 5351 VILLAGE MARKET WESLEY CHAPEL, FL. 342490			X							
4A)	8514915 CONVENIENT FOOD MART #5530 28225 HWY 54 W WESLEY CHAPEL, FL. 34249								X	X	
4A)	8514915. CONVENIENT FOOD MART #5530 14500 HWY 54 W WESLEY CHAPEL, FL. 34249								X	X	
4A)	8514915.. CONVENIENT FOOD MART #5530 14500 HWY 54 W WESLEY CHAPEL, FL. 34249								X		
5A)	9802188 HESS #09245 28232 HWY 54 WESLEY CHAPEL, FL. 33543									X	
6A)	8515016 CITRUS COUNTY GROVES 28009 HWY 54 W & I-75 WESLEY CHAPEL, FL. 33599								X	X	



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**** ENVIRONMENTAL DATA MANAGEMENT ****
STANDARD RADIUS REPORT

10/29/2001

PROXIMAL RECORDS TABLE

Page 2 of 2

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL					STATE				
		N C P L S	N E F R A S P	C R R A C T S	H F W I R D M S	T R I S	S F A S S	S I T S	S P I D T S	P C A N K S	T O M H A Z
7A)	9201573 MASTERS ECONOMY INN 27807 HWY 54 WESLEY CHAPEL, FL. 33543-									X	X
8A)	8520035 AMOCO-WESLEY CHAPEL 15016 W HWY 54 WESLEY CHAPEL, FL. 33543									X	X
8A)	8520035. AMOCO #10710 15016 W HWY 54 WESLEY CHAPEL, FL. 34249									X	X
8A)	FLD984211425 AMOCO SVC STA #10710 27741 STATE RD 54 ZEPHYRHILLS, FL. 335430000			X	X						
9A)	FLD984211425 AMOCO SERVICE STATION #10710 27741 SR 54 ZEPHYRHILLS, FL. 33543										X



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2-MILE SUMMARY RECORDS TABLE

10/29/01

2-Mile Summary Page 1 of 1

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The 2 Mile Summary Table includes mapped facilities appearing on the NPL, CERCLIS, ERNS, STATE HAZARDOUS WASTE SITES LISTS (if applicable), and STATE SOLID WASTE FACILITIES lists within an approximate two mile radius of your subject location. These facilities are provided in a summarized fashion, in that the facilities listed on these databases are typically associated with the highest level of concern. Additionally, large facilities (such as landfills) may have a street address located outside of both your research boundary as well as the proximal research we provide, but with facility boundaries existing well inside of your research area. You therefore may wish additional information regarding these locations.

If more specific information relative to one or more locations included on the 2 Mile Summary Table is desired, please feel free to contact us and we will send you this information as an addendum to this report, at no additional cost.



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**** ENVIRONMENTAL DATA MANAGEMENT ****
STANDARD RADIUS REPORT

10/29/2001

2-MILE SUMMARY TABLE

Page 1 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL					STATE					
		N P L	C E R C L I S	N E R O S P	C R O C R I A S T S	R E G I S T R E D	H E A L T H	T R I B U T E	S S I F I C A T E S	S I L T I C E S T	S P C I A L K E Y S	C O M M O N H A Z
1B)	19537 Unknown 8401 N. HWY 301 TEXACO GAS STATION TAMPA, FL.			X								
2B)	FLSFN0406909 ARKLA TERRA PROPERTY 11706 US HWY 301 THONOTOSASSA, FL. 335922948		X									
3B)	4029P81636 MORRIS BRIDGE LANDFILL MORRIS BRIDGE & FOWLER AVE 07-28S-20E TAMPA, FL.								X			
3B)	FLD981748080 MORRIS BRIDGE LANDFILL FOWLER AVE/MORRIS BRIDGE RD. TAMPA, FL. 33612		X									
3B)	NONE 2970.## MORRIS BRIDGE RD I-75 OFFRAMP OLD MORRIS BRIDGE RD & FOWLER GARBAGE FILL-20 TAMPA, FL.								X			
3B)	NONE 2990 MORRIS BRIDGE LANDFILL MORRIS BRIDGE & FOWLER AVE 07-28S-20E TAMPA, FL.								X			
4B)	FL0001575422 ENTREPRENEUR INC 11511 HW 301 NORTH TAMPA, FL. 33637		X									
5B)	NONE 2964.## FOWLER & HWY 301 FOWLER AVENUE & HWY 301 TRASH FILL (S17-T28-R20 THONOTOSASSA, FL.									X		
6B)	4029P49712 JAMSON ENVIRONMENTAL INC 11710 #A US HIGHWAY 301 NORTH 09-28S-20E THONOTOSASSA, FL.									X		
6B)	NONE 29106 FLORIDA RECYCLING & DISTRIBUTION 11710 HWY 301 N UNIT A (09-28S-20E) THONOTOSASSA, FL.									X		



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10/29/2001

2-MILE SUMMARY TABLE

Page 2 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL							STATE				
		NC PL	NE FR CA P	CR RR ACTS	HW IND MS	TR NIS	SS FI TES	SL DWS T	PC TKS	CA NK S	CO MH AZ		
6B)	NONE 2993.## FLORIDA RECYCLING & DISTRIBUTION 11710 HWY 301 N UNIT A (09-28S-20E) THONOTOSASSA, FL.									X			
7B)	4029P30090 CONIGLIO C & D LANDFILL 11981 N WILLIAMS RD 07-28S-20E THONOTOSASSA, FL.									X			
8B)	19223 Unknown MEDIUM OF I-75 NORTH FLETCHER AVE TEMPLE TERRACE, FL.			X									
9B)	364412 WASTE MANAGEMENT INC. 8500 HIDDEN RIVER PKWY TAMPA, FL. 33605			X									
9B)	404773 WASTE MANAGEMENT INC. SOLOMON BROTHERS INVEST. 8800 HIDDEN RIVER PK TAMPA, FL. 33605			X									
10B)	368636 TAMPA BAY PAVING 8800 HIDDEN RIVER PKWY TAMPA, FL. 33637			X									
11B)	398719 SALOMON BROTHERS 8800 HIDDEN RIVER PARKWAY TAMPA, FL. 33637			X									
12B)	178562 SSE TRANSPORTATION CO I-75 NORTH & I-275 AT THE BRIDGE OVER THE HILLSBO TAMPA, FL.			X									
13B)	104149 Unknown HILSBOROUGH RIVER AT I-75 , FL.			X									
14B)	4051P00020 TAMPA DOWNS DUMP N SR54, 1MI W TAMPA DOWNS 15-26S-19E LAND O' LAKES, FL.									X			



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STANDARD RADIUS REPORT

10/29/2001

2-MILE SUMMARY TABLE

Page 3 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL							STATE				
		N P L	N E R C A S	N E R C A S	C O R R A C T S	R C R T S	H F W D M S	T R I S	S S F I A T S	S S I D E S	P C T S	T C A N K S	C O M H A Z
14B)	NONE 519 TAMPA DOWNS DUMP HWY 54, 1MI W TAMPA DOWNS N 15-26S-19E LAND O LAKES, FL.										X		
15B)	312820 D & D SHEET METAL HWY 54 & 75 LUTZ, FL.			X									



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NON-MAPPED RECORDS TABLE

10/29/01

Non-Mapped Page 1 of 1

The Non-Mapped Sites Table is a listing of database records that lack sufficient address information to be placed within our mapping system, but may exist within your study area. These records have been manually screened, using two primary criteria. The first screening criteria is whether the non-mapped record can be identified as existing within your study area, and then adding it to the map and body of the report. The second criterion is whether the listed facility can possibly exist within the study area. If the site can be conclusively identified as existing outside of the study area, it is excluded from the report. All remaining, screened records are provided on the EDM Non-Mapped Table within this report.

The Non-Mapped Sites Table therefore consists of both listed sites identified as **possibly** existing within your study area (e.g. a valid street name, but no street number), or a listed address that is entirely unrecognized. Typically, these unrecognized addresses consist of a street name that isn't identified within the county in which the study area is located.

For your convenience, we have categorized these screened records into three groups:

- 1.) Non-mapped records that contain a zip code equal to the subject property (or any additional zip code data you provide on the order form). Because we extract all of the zip codes listed within records mapped within your study area (to help identify historical zip codes), you may see zip code values in this portion of your report that are unexpected.
- 2.) Non-mapped records that contain no zip code information, but are listed within the same city as the subject property (or any additional cities you provide on the order form). Adjacent city data may also be provided if the subject property is located very near another city boundary.
- 3.) Non-mapped records that contain no zip code or city information, but are listed within the same county as the subject property. Adjacent county data may also be provided if the subject property is located very near a county boundary.

If more specific information relative to one or more locations included in the Non-Mapped Sites Table is desired, please feel free to contact us and we will send you this information as an addendum to this report, at no additional cost.

NON-MAPPED RECORDS



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10/29/2001

ZIPCODE PORTION OF THE NON-MAPPED RECORDS TABLE

Page 1 of 7

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS													
		FEDERAL						STATE							
		N C L I S	N E P R C A S P	N E R R A S A C T S	C O C R R A C T S	C H W I D M S	F I R M S	T R I S	S I T E S	S I T E S	S I T E S	S I T E S	P T C A N K S	C O M H A Z	
For Zipcode of: 32399															
	FL0001770486 FLORIDA DEP SIS 291 S19 TWP 295 R19E TAMPA, FL. 32399						X								
	FLR000017731 FLORIDA DEP SIS #291 SEC 19 TOWNSHIP 295 RANGE 19E TAMPA, FL. 32399				X										X
For Zipcode of: 32627															
	FLD982140550 SILVER SPRINGS GROVES GENERAL DELIVERY SAME., FL. 326270000				X										
For Zipcode of: 33525															
	9200657 EVANS PROPERTIES INC-YENT GROVE UNKNOWN RICHLAND, FL. 33525														X
For Zipcode of: 33539															
	8837485 GTE MOBILNET OF TAMPA INC.-EHREN BOX 351 ZEPHYRHILLS, FL. 33539														X
	8520486. HESS #09414 9 CHAPMAN SQUARE LAND O' LAKES, FL. 33539-													X	
	9400140 FRED M AUSTIN PO BOX 351 LAND O' LAKES, FL. 33539													X	
	8520067 BEXLEY FARMS RT 2 BOX 2629 LAND O' LAKES, FL. 33539-												X	X	
	8734395 TUCKER & SON/GILBERT UNKNOWN LAND O' LAKES, FL. 33539													X	



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STANDARD RADIUS REPORT

10/29/2001

ZIPCODE PORTION OF THE NON-MAPPED RECORDS TABLE

Page 2 of 7

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS												
		FEDERAL					STATE							
		N P L	C E R C L S	F R A S P	R R A C T S	C O R R A C T S	H W I M S	F E R I S	T R I S	S I F A S	S I D T E S	S P I D T S	P C A N K S	C O M H A Z
For Zipcode of: 33540														
	9802787 CEMEX INC 9021 OLD WIRE RD ZEPHYRHILLS, FL. 33540													X
	8736684 CEMEX INC 9021 OLD WIRE RD ZEPHYRHILLS, FL. 33540													X
For Zipcode of: 33543														
	9602234 TAMPA BAY WATER (LAKE BRIDGE) 5825 COUNTY LINE RD!! WESLEY CHAPEL, FL. 33543													X
For Zipcode of: 33592														
	FLR000064303 JAMSON ENVIRONMENTAL INC 11817 ELYSSA RD THONOTOSASSA, FL. 33592					X								X
	8625778 EVANS PROPERTIES INC-OFFICE BLOCK FT KING HWY!! THONOTOSASSA, FL. 33592													X
	9202547 HARRIS GROVE KNIGHTS GROVE RD THONOTOSASSA, FL. 33592													X
	FL0000293514 THONOTOSASSA CHRISTIAN ACADEMY PO BOX 366 THONOTOSASSA, FL. 33592						X							
	9200658 EVANS PROPERTIES INC-SNAVELY GROVE UNKNOWN THONOTOSASSA, FL. 33592													X
For Zipcode of: 33599														
	8630299 VERIZON OF FL-WESLEY CHAPEL SR 581!! WESLEY CHAPEL, FL. 33599													X



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10/29/2001

ZIPCODE PORTION OF THE NON-MAPPED RECORDS TABLE

Page 3 of 7

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS											
		FEDERAL					STATE						
		N P L	C E R C L S	N E R C A S P	C R O C R A C T S	R W I D M S	H F I R I S	T R I S	S F I S	S I D E S	S P I D T S	P C A N K S	C O M H A Z
For Zipcode of 33601													
	FL0000494468 GTE-SUMTER REPORT CTR GTE-P O BOX 110 MC 711 TAMPA, FL. 33601						X						
	9500278 WINN-DIXIE TAMPA INC P O BOX 440 (CORPORATE OFFICE-REPRESENTS ALL TAMPA, FL. 33601-0												X
For Zipcode of 33602													
	FLD984170233 HILLSBOROUGH RIVER ABANDONED D HILLSBOROUGH COUNTY TAMPA, FL. 33602		X				X						
	FLD984170225 TAMPA UNKNOWN SPILL HILLSBOROUGH COUNTY TAMPA, FL. 33602		X				X						
For Zipcode of 33605													
	8625337 FIFE-FL SUPPLY INC 1600 DRAWER B TAMPA, FL. 33605												X
	9601587 INTL MARINE & INDUSTRIAL APPLICATORS 1207 MCARTHUR PLAZA TAMPA, FL. 33605-												X
	9803865 GEORGE B HOWELL MARITIME CTR NORTH OF BLDG 65 TAMPA, FL. 33605-											X	
	8842369 STANDARD GYPSUM UNKNOWN TAMPA, FL. 33605-6898										X	X	
For Zipcode of 33610													
	FLR000068114 FLEET PRODUCTS INC 6510 GOLDEN GROVES LA TAMPA, FL. 33610												X



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10/29/2001

ZIPCODE PORTION OF THE NON-MAPPED RECORDS TABLE

Page 4 of 7

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS									
		FEDERAL					STATE				
		N P L	C E R C L I S	N E F R C A S P	C R O C R I A C T S	R E W I D N I S	T R I S	S T A T E S	S I L D T S	S P C T A N K S	C O M H A Z
	9802037 HIGHLAND OAKS 10150 HIGHLAND MANOR DR TAMPA, FL. 33610										X
	9803342 HIGHLAND OAKS-CHASE 10430 HIGHLAND MANOR DR TAMPA, FL. 33610										X
	For Zipcode of: 33611 9100874 OSBORNE, H H USE #8625087 TAMPA, FL. 33611										X
	For Zipcode of: 33614 FLR000067926 PARKING AREA MAINTENANCE INC 6920 ASPHALT AVE TAMPA, FL. 33614										X
	9802034 LEVEL 3 COMMUNICATIONS 7901 WOODLANDS BLVD TAMPA, FL. 33614										X
	For Zipcode of: 33615 643011 SHELDON PALMS APARTMENTS 6601 SUSSMAN PLACE TAMPA, FL. 33615			X							
	639914 SHELDON PALMS APARTMENTS 6601 SUSSMAN PLACE TAMPA, FL. 33615			X							
	For Zipcode of: 33619 FLR000068551 MEDICAL INITIATIVES INC - CHEMOTHERAP 9280 BAY PLAZA #726 TAMPA, FL. 33619										X
	FLR000063891 INNOVATIVE ELECTRONIC RECYCLING TECH 8100 E BROADWAY #D TAMPA, FL. 33619				X						



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10/29/2001

ZIPCODE PORTION OF THE NON-MAPPED RECORDS TABLE

Page 5 of 7

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS											
		FEDERAL					STATE						
		N P L	C E R C L S	E R A S P	R R A C T S	C R O R R I M S	H W I D M S	F I N I S	T R I S	S F I A S	S I D T S	S P I C A N K S	C O M H A Z
	FLD984170241 PRB AREAWIDE GROUNDWATER STUDY HILLSBOROUGH CNTY TAMPA, FL. 33619		X					X					
	FLR000062729 W R S INFRASTRUCTURE & ENVIRONMENT 221 HOBBS ST #108 TAMPA, FL. 33619					X							X
	FLR000068684 MCKESSON MEDICAL SUPPLY 121-G KELSEY LANE TAMPA, FL. 33619												X
	FL0000592154 FMC CORP., ACG, ATTN.:DELIA D. MC GOE 2000 MARKET ST TAMPA, FL. 33619							X					
	FL0001662469 STARKEYS TRL PARK TAMPA RT 3 TAMPA, FL. 33619							X					
	FL0000612770 CAREY SALT, INC. RT 3, BOX 498 TAMPA, FL. 33619							X					
	For Zipcode of: 33622												
	FL0000494476 CELOTEX CORPORATION-CHESTER PO BOX 22602 TAMPA, FL. 33622							X					
	FL0000583427 J-DUCKS, INC POB 22843 TAMPA, FL. 33622							X					
	FLD984182360 POPS PAINTING TAMPA TAMPA, FL. 33622							X					
	For Zipcode of: 33626												



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10/29/2001

ZIPCODE PORTION OF THE NON-MAPPED RECORDS TABLE

Page 6 of 7

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS										
		FEDERAL					STATE					
		N C L	N E P G L S	N E R F R S A C T S	C R O C R I M S	R H W I D M S	H E T R I S	S F A S S	S I L T E S T	S P I D T S	P C A N K S	C O M H A Z
	FLR000060871 SHERWIN WILLIAMS STORE #2386 13925 LYNMAR BLVD TAMPA, FL. 33626				X							X
For Zipcode of: 33634												
	FLR000066241 MARIMARK 9423 CORPORATE LAKE DR TAMPA, FL. 33634				X							X
	9800202 UNITED PARCEL SERVICES 5201 EAGLE TRAIL DR TAMPA, FL. 33634										X	
	9802953 QWEST COMMUNICATIONS-TAMPA CYBER CTR 9302 FLORIDA PALM DR TAMPA, FL. 33634										X	
For Zipcode of: 33637												
	FLD981751118 COMMERCIAL FLEET FRAME BODY INC RT 4 BOX 595 TAMPA, FL. 336370000				X	X						X
For Zipcode of: 33635												
	FL0000314633 HILLSBOROUGH CHEMICAL CORP PO BOX 261598 TAMPA, FL. 33685					X						
For Zipcode of: 33686												
	8625708. HARDAWAY CO PRESTRESS CONCRETE YARD 6500 HARDAWAY RD TAMPA, FL. 33686											X
For Zipcode of: 34248												
	8519740 BLACKS DAIRY INC 2701 DEEM RD ZEPHYRHILLS, FL. 34248											X
For Zipcode of: 34639												



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STANDARD RADIUS REPORT

10/29/2001

ZIPCODE PORTION OF THE NON-MAPPED RECORDS TABLE

Page 7 of 7

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS												
		FEDERAL					STATE							
		N P L	C E R L S	N E F R P	C R O R R A C T S	R C R I M S	H W D M S	F R I S	T R I S	S I A S	S I T E S	S P L D T S	P C A N K S	C O M H A Z
	FLR000075739 WAL MART STORE #988 21703 VILLAGE LAKES SHP/CTR LAND O LAKES, FL. 34639													X



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10/29/2001

CITY PORTION OF THE NON-MAPPED RECORDS TABLE

Page 1 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS										
		FEDERAL					STATE					
		N P L	C E R C L S	N E F R A S P	C R O C R I S A C T S	H F W I D M S	T R I S	S F A S S	S I T E S	S P I L L S T	P T C A N K S	C O M H A Z
For City of: LAND O' LAKES												
9103022	UNDER CAR MUFFLER & BRAKE INC 101 LAKE FRANCISCO PLAZA LAND O' LAKES, FL.											X
For City of: LUTZ												
9802763	TAMPA ELECTRIC TRUCK SPILL-CHAPMAN LIVINGSTON RD LUTZ, FL. -										X	
For City of: TAMPA												
4029P30092	SPE RECYCLING C & D FACIL TAMPA, FL.									X		
644043	Unknown ARBOR LAKES APARTMENTS TAMPA, FL.			X								
618070	A AND L CARRIERS CORNER OF CHESTNUT BLVD AND MAYBERRY RD TAMPA, FL.			X								
89-3069	CLAUDE GATES - HUGHES HARD CHR 3520 FORT AVE TAMPA, FL.			X								
108329	HUGHES HARD CHROME 3520 FORT AVE. TAMPA, FL.			X								
88-878	HONEYWELL, INC. HONEYWELL, INC. TAMPA, FL.			X								
88-644	HOTLINE CITY BUS TERMINAL HOTLINE CITY BUS TERMINAL TAMPA, FL.			X								



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10/29/2001

CITY PORTION OF THE NON-MAPPED RECORDS TABLE

Page 2 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL					STATE				
		N C P L	N E F R O C L I S	C R O C R I S	R H W I D M S	F E R I S	S F A T S	S I L T S	S P C I A L	T A M P A	C O M H A Z
413058	BAXLEY OIL CO INTERSTATE 75 NORTHBOUND MILE MARKER 277!! TAMPA, FL.		X								
98-1335	CSX TRANSPORTATION MILEPOST:YOMAN YARD TAMPA, FL.		X								
58789	PAY-LESS OIL COMPANY PAY-LESS SERVICE STATION SOUTH OF COOPER'S PO TAMPA, FL.		X								
FLD981751118	COMMERCIAL FLEET FRM BODY INC ROUTE BOX 595 TAMPA, FL. 99999				X						
250723	CSX TRANSPORTATION YEOMAN RAIL YARD TAMPA, FL.		X								
157861	CSX TRANSPORTATION YEOMAN YARD TAMPA, FL.		X								
98-1343	Unknown YOEMAN YARD TAMPA TERMINAL TRACK 30 TAMPA, FL.		X								
368449	CSX TRANSPORTATION YULMAN YARD TAMPA, FL.		X								
For City of: TEMPLE TERRACE											
88-417	UNKNOWN I-75 N OF FLETCHER AVENUE!! TEMPLE TERRACE, FL.		X								
For City of: WESLEY CHAPEL											



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10/29/2001

CITY PORTION OF THE NON-MAPPED RECORDS TABLE

Page 3 of 3

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	FEDERAL						STATE				
		NC PE LR CA LI S	NE FR CA P	DE OR RI AS CT S	CO OR RI AS S	HI WA ID MO S	IL IN MI S	VA WV KY S	SS IL AT S	SD IL D T S	SP CA N S	TX OK KS S
221644	HESS PAVING 2777 HWY 54!! WESLEY CHAPEL, FL.		X									



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10/29/2001

COUNTY PORTION OF THE NON-MAPPED RECORDS TABLE

Page 1 of 1

REGULATORY LISTS

MAPID#	FACILITY ID NUMBER, NAME AND LOCATION	REGULATORY LISTS												
		FEDERAL					STATE							
		N P L	C E R C L S	N E F R A S P	C R O R R A C T S	R E C O R D S	H E R I T A G E	T R I B U T E	S T A T E	S I L T S	S P I T S	P C T S	T A N K S	C O M H A Z
For County of: HILLSBOROUGH														
	4029P24602 SAFETY DISPOSAL SYSTEMS INC . FL.											X		
	NONE 2923 SOUTHERN MILL PIEDMONT CO TO BE DET . FL.									X				
	NONE 292 AMERICAN CAN COMPANY TO BE DETERMINED . FL.									X				
	9047457 UNITED PETROLEUM, INC. UNKNOWN UNKNOWN, FL.											X	X	
	9047078 DUNMAR GROVES UNKNOWN HILLSBOROUGH COUNTY, FL.													X
For County of: PASCO														
	9047238 MITCHELL GROVE UNKNOWN PASCO COUNTY, FL.													X



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RCRA NOTIFIERS
WITH NO TREATMENT, STORAGE AND/OR DISPOSAL ACTIVITIES
(COMPILED FROM USEPA RCRIS, USEPA HWDMS AND FDEP COMHAZ LISTS)
(NONTSD)

8/28/02

NON-TSD Page 1 of 2

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The USEPA Resource Conservation and Recovery Information System (RCRIS) identifies those facilities or locations that have notified the EPA of their activities relative to the handling of hazardous wastes. These activities include hazardous waste generation, hazardous waste transportation, and hazardous waste treatment, storage and disposal, as defined by federally recognized hazardous waste codes. Generators are typically divided into large-quantity and small-quantity generators (LQG and SQG, respectively). Hazardous waste facilities involved in the Treatment, Storage and Disposal are often grouped into a "TSD" category.

The EDM NONTSD report includes records identified within your study area that are *not* listed as a TSD facility (thus including LQG, SQG, transporters and any other designation). The EDM NONTSD report for Florida is based upon the RCRIS database, as well as two additional databases -- the USEPA HWDMS database (historical RCRA database) and the FDEP COMHAZ database (State RCRA database). Data obtained from each of these sources are clearly differentiated in separate sections within the report.

The EDM NON-MAPPED RECORDS TABLE is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed this table is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

Agency File Date: 5/24/02

Received by EDM: 7/19/02

EDM Database Updated: 7/23/02

EDM

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RCRA NOTIFIERS
WITH NO TREATMENT, STORAGE AND/OR DISPOSAL ACTIVITIES
(COMPILED FROM USEPA RCRIS, USEPA HWDMS AND FDEP COMHAZ LISTS)
(NONTSD)

8/28/02

NON-TSD Page 2 of 2

FACILITY ID NUMBER, NAME AND LOCATION:

MAP ID NUMBER:

1

N
O
N
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T
S
D

FLD984211425
AMOCO SERVICE STATION #10710
27741 SR 54
ZEPHYRHILLS, FL 335430

MAILING ADDRESS AND CONTACT:

27741 SR 54
ZEPHYRHILLS, FL 335430
Contact: WAYNE SPENCER
Contact Telephone: (813)973-0884

HWDMS INFORMATION (HISTORICAL DATA)

GEN STATUS:
TRANS STATUS:
TSD STATUS:

COMHAZ INFORMATION

STATUS: SMALL QUANTITY GENERATOR
SOURCE: NOTIFICATION

RCRIS INFORMATION

Notification Date: [REDACTED]

Source: [REDACTED]

GENERATOR STATUS: 2-SMALL QUANTITY GENERATOR (<1000 KG PER MONTH)
TRANSPORTER STATUS:
TSD STATUS:
OTHER STATUS:

VIOLATION INFO

Violation Date: [REDACTED]

VIOL TYPE:

CITATION:

COMPL DATE:

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USEPA FACILITY INDEX SYSTEM LIST

8/28/02

(FINDS)

FINDS Page 1 of 2

The FINDS list is a **historical database** that identifies facilities and/or locations that are subject to regulation under certain EPA programs, due to operations conducted at these sites. The appearance of a site on this list does not necessarily indicate Environmental problems on the site, but rather that the site conducts operations that may have a potential to cause environmental degradation if hazardous compounds are released in an uncontrolled manner.

The EDM FINDS report includes FINDS records identified within your study area. Each site exhibited on the EDM FINDS report will have an "X" beneath one or more of the source indicators shown on the right side of the report. These source indicators denote which EPA program, such as Air, Water or Hazardous Waste, is responsible for regulating the activities conducted on the site. The "Explanation of Codes" table exhibited below, shows each source indicator and the corresponding EPA office responsible for regulating these activities.

EXPLANATION OF CODES

SOURCE INDICATOR	DESCRIPTION OF SOURCE	EPA PROGRAM OFFICE
*RCRIS	RCRA INFORMATION SYSTEM	WASTE-RCRA
*PCS	PERMIT COMPLIANCE SYSTEM	OFFICE OF ENFORCEMENT
*AFS/AIRS	COMPLIANCE DATA & AIR FAC	AIR ENFORCEMENT
*SSTS	PESTICIDES & TOXIC SUBST	AIR-PESTICIDES & OPTS
*CERCLIS	SUPERFUND-HAZARDOUS WASTE SITES	WASTE-SUPERFUND
*FTTS/NCDB	PESTICIDES & TOXIC SUBSTANCE	TSCA
*DOCKET	ENFCMNT & COMPLIANCE MONIT SYS	ENV ACCOUNTABILITY DIV
*CONTROL	HAZARDOUS WASTE CONTROL TECH	HQ-EPA,ORC,OSW&OECM
*CRIM DOC	CRIMINAL DOCKET SYSTEM	ENV ACCOUNTABILITY DIV
*FFIS	FEDERAL FACILITY INFORMATION SYSTEM	FEDERAL ACTIVITIES
*CICIS	CHEMICALS IN COMMERCE INF SYS	TSCA
*STATE	STATE PROGRAM SYSTEM	STATE OFFICES
*PADS	PCB ACTIVITY DATA SYSTEM	TSCA
*RCRA-J	MEDICAL WASTE UNDER RCRA / SOLID WASTE	WASTE-RCRA
*TRIS	TOXIC RELEASE INVENTORY SYSTEM	TSCA-AIR TOXICS
*CUS	CHEMICAL UPDATE SYSTEM	TSCA

For more information on sites identified under these programs you may contact the USEPA Region IV office at (404) 562-9891.

The EDM NON-MAPPED RECORDS TABLE is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed this table is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

As of October 1, 1998 the EPA discontinued actively updating the FINDS database and replaced its function with the Facility Identification Initiative (FII). For more information on the FII, you may visit the EPA's ENVIROFACTS web page. EDM last obtained this data on 11/23/98.

FINDS DATABASE

EDM

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USEPA FACILITY INDEX SYSTEM LIST

8/28/02

(FINDS)

FINDS Page 2 of 2

SOURCE INDICATOR:

R	H	A	B	C	F	D	G	C	R	C	C	P	R	T	C
C	A	F	S	E	T	O	O	R	I	I	T	A	C	R	D
R	S	S	T	R	S	C	N	M	S	S	D	S	A	I	S
I	S			L		K	E	D							
S				I		E	T	O							

FACILITY ID NUMBER,
NAME AND LOCATION:

FLD984211425
AMOGO SVG STA #10710
27741 STATE RD 54
ZEPHYRHILLS, FL 335430000

X															
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MAP ID #:

1

F
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N
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FLD984216325
VENICE EASTSIDE WWTP
401 W VENICE AVE
VENICE, FL 34292

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MAP ID #:

5

F
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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

8/28/02

(PCTS)

PCTS Page 1 of 8

The Florida Department of Environmental Protection (FDEP) Petroleum Contamination Tracking System (PCTS) list is a subset of the FDEP Storage Tank and Contamination Monitoring Database and identifies facilities and/or locations that have notified the FDEP of a possible release of contaminants from petroleum storage systems.

Sites that have been accepted into the State-sponsored EDI, PLIRP, ATRP or PCPP programs were typically issued a rank and score relative to the severity of the release that has occurred. The score that a site received was compiled by assigning numerical values relative to the circumstances of the release and various risk factors. The rank was determined by the relative value of the score issued to the site and represents the priority that the State has placed on initiating cleanup activities at the site. In general, a site that was issued a high score was assigned a relatively low numerical rank. A low rank value indicates a higher priority for response from the State.

The EDM NON-MAPPED RECORDS TABLE is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed in this table is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

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Agency File Date: 5/3/02

Received by EDM: 6/20/02

EDM Database Updated: 6/21/02

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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

(PCTS)

8/28/02

PCTS Page 2 of 8

FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

MAP ID NUMBER:



P
C
T
S

8526035
AMOCO-WESLEY CHAPEL
27741 HWY 54
WESLEY CHAPEL, FL 33543

RADIANT GROUP LLC
P O BOX 5238
TAMPA, FL 33675
OWNER CONTACT TEL #: 8132474731
OWNER CONTACT: JOHN P MYERS JR

FAC TEL #: 8139730884

FACILITY STATUS: OPEN

FAC OPERATOR:

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS: ONGOING--AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 11/30/88 DISCHARGE ID: 22252

SCORE/RANK: 66 / 1658 SCORE EFF DATE: 1/6/98 INSPECTION DATE: 4/10/90
LEAD AGENCY: BUREAU OF WASTE CLEANUP CLEANUP WORK STATUS: ACTIVE COMB CLEANUP W/DIS ID: 2225
INFO SOURCE: OTHER FDEP 62-770 DESCR: NEW CLEANUP REQUIRED
DISCH CLNUP STATUS: 9/18/01 RA ONGOING-REMEDIAL ACTION CLEANUP ACTIVITY IN PROGRESS

CONDEMNATED MEDIA SOIL: N SUR WATER: N GR WATER: N MON WELL: Y # DW WELLS CONTAMINATED: 0

POLLUTANT TYPE AND ESTIMATED GALLONS (IF REPORTED):
1) LEADED GAS/ 2) UNLEADED GAS/
3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****

(for specific discharge noted above)

CLNUP PROG: EDI-EARLY DETECTION INCENTIVE CLNUP LEAD: REIMBURSEMENT
APPL RCVD: 12/27/88 ELIG STATUS: ELIGIBLE ELIG STATUS DATE: 6/07/90 ELIG REDETERMINED?: N

FREE PRODUCT REMOVAL? (Y/N): SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT? (Y/N): OTHER TREATMENT?:

SITE ASSESSMENT

REMEDIAL ACTION PLAN

REMEDIAL ACTION

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COMPLETION DATE: 10/20/93
PAYMENT DATE:
ACTUAL COST:

CLEANUP RESP: RESPONSIBLE PARTY
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

SOURCE REMOVAL

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

CLEANUP RESP: RESPONSIBLE PARTY
ORAL DATE:
WRITTEN DATE:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
COST:
COMPLETION STATUS:

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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

8/28/02

(PCTS)

PCTS Page 3 of 8

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FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

MAP ID NUMBER:

1

8520035 --HISTORICAL ENTRY-
AMOCO #10710
15016 W HWY 54
WESLEY CHAPEL, FL 34249

BP AMOCO OIL CORP
600 CORPORATE DR #500
FORT LAUDERDALE, FL 33334
OWNER CONTACT TEL #: 9549382700
OWNER CONTACT: RICHARD ALVEAR

FAC TEL #: 8139730884

FACILITY STATUS: OPEN

FAC OPERATOR: SPENCER, WAYNE

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS: ONGOING- AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 11/30/88 DISCHARGE ID: 22252

SCORE/RANK: /

SCORE EFF DATE:

INSPECTION DATE:

LEAD AGENCY:

CLEANUP WORK STATUS:

COMB CLEANUP W/DIS ID:

INFO SOURCE:

FDEP 62-770 DESCR:

DISCH CLNUP STATUS:

CONTAMINATED WELLS SOIL: SUR WATER: GR WATER: MON WELL: # DW WELLS CONTAMINATED:
POLLUTANT TYPE AND ESTIMATED 1) / 2) /
GALLONS (IF REPORTED): 3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****

(for specific discharge noted above)

CLNUP PROG:

CLNUP LEAD:

APPL RCVD:

ELIG STATUS:

ELIG STATUS DATE:

ELIG REDETERMINED?:

FREE PRODUCT REMOVAL? (Y/N):

SOIL REMOVAL? (Y/N):

SOIL TONNAGE REMOVED:

SOIL TREATMENT? (Y/N):

OTHER TREATMENT?:

SITE ASSESSMENT

REMEDIAL ACTION PLAN

REMEDIAL ACTION

CLEANUP RESP:

CLEANUP RESP:

CLEANUP RESP:

ACTUAL COMPLETION DATE:

ORDER COMPL DATE:

ACTUAL COST:

PAYMENT DATE:

ACTUAL COMPL DATE:

YEARS TO COMPL:

ACTUAL COST:

PAYMENT DATE:

ACTUAL COST:

SITE REHABILITATION COMPLETION REPORT

SOURCE REMOVAL

ACTION TYPE:

CLEANUP RESP:

SUBMIT DATE:

ORAL DATE:

REVIEW DATE:

WRITTEN DATE:

ISSUE DATE:

ACTUAL COMPLETION DATE:

STATUS EFFECTIVE DATE:

PAYMENT DATE:

COMMENTS:

COST:

COMPLETION STATUS:

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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

8/28/02

(PCTS)

PCTS Page 4 of 8

FACILITY ID NUMBER, NAME AND LOCATION:

8515016
CITRUS COUNTY GROVES
28009 HWY 54 W & I-75
WESLEY CHAPEL, FL 33599

OWNERSHIP INFORMATION:

MOTIVA ENTERPRISES LLC
650 S NORTH LAKE BLVD #450 ATTN
ALTAMONTE SPRING, FL 32701
OWNER CONTACT TEL #: 4072637029
OWNER CONTACT: CATHERINE FIELDS OR KEN W

MAP ID NUMBER:

2

PCTS

FAC TEL #: 8139737998

FACILITY STATUS: OPEN

FAC OPERATOR: JIM GUEDRY

FACILITY TYPE: RETAIL STATION

FACILITY CLEANUP STATUS: ONGOING--AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 7/19/90 DISCHARGE ID: 22328

SCORE/RANK: 30 / 4886

SCORE EFF DATE: 3/8/01

INSPECTION DATE:

LEAD AGENCY: BUR OF PETROL STOR SYSTM

CLEANUP WORK STATUS: ACTIVE

COMB CLEANUP W/DIS ID: 2232

INFO SOURCE: DISCHARGE NOTIFICATION

FDEP 62-770 DESCR: NEW CLEANUP REQUIRED

DISCH CLNUP STATUS: 10/26/01

RA ONGOING-REMEDIAL ACTION CLEANUP ACTIVITY IN PROGRESS

CONTAMINATED MEDIA? SOIL: N SUR WATER: N GR WATER: Y MON WELL: N # DW WELLS CONTAMINATED: 0

POLLUTANT TYPE AND ESTIMATED GALLONS (IF REPORTED):

- 1) UNLEADED GAS/ 2) /
3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****

(for specific discharge noted above)

CLNUP PROG: PCPP-PETROLEUM CONTAMINATION PARTICIPATION PROGRAM

CLNUP LEAD: PREAPPROVAL

APPL RCVD: 7/19/90

ELIG STATUS: ELIGIBLE

ELIG STATUS DATE: 9/27/2001

ELIG REDETERMINED?: N

FREE PRODUCT REMOVAL? (Y/N):

SOIL REMOVAL? (Y/N): Y

SOIL TONNAGE REMOVED:

SOIL TREATMENT? (Y/N):

OTHER TREATMENT?:

SITE ASSESSMENT

CLEANUP RESP: OTHER
ACTUAL COMPLETION DATE: 12/19/91
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: OTHER
ORDER COMPL DATE: 8/23/93
ACTUAL COMPL DATE: 8/23/93
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: OTHER
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: OTHER
ORAL DATE:
WRITTEN DATE: 3/4/92
ACTUAL COMPLETION DATE:
PAYMENT DATE:
COST:
COMPLETION STATUS:

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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

8/28/02

(PCTS)

PCTS Page 5 of 8

FACILITY ID NUMBER, NAME AND LOCATION:

9201573
MASTERS ECONOMY INN
27807 HWY 54
WESLEY CHAPEL, FL 33543

OWNERSHIP INFORMATION:

HLC PROPERTIES INC
PO BOX 13069
SAVANNAH, GA 31416
OWNER CONTACT TEL #: 9123524493
OWNER CONTACT: MAX C RISTER

MAP ID NUMBER:

3

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S

FAC TEL #: 8139730155

FACILITY STATUS: CLOSED

FAC OPERATOR: HLC PROPERTIES INC

FACILITY TYPE: FUEL USER/NON-RETAIL

FACILITY CLEANUP STATUS: ONGOING--AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 5/15/91 DISCHARGE ID: 22012

SCORE/RANK: 30 / 4886

SCORE EFF DATE: 1/6/98

INSPECTION DATE: 5/28/91

LEAD AGENCY: BUREAU OF WASTE CLEANUP

CLEANUP WORK STATUS: INACTIVE

COMB CLEANUP W/DIS ID: 2201

INFO SOURCE: ABANDONED TANK RESTORATION FDEP 62-770 DESCR: NEW CLEANUP REQUIRED

DISCH CLNUP STATUS: 10/9/00

RAP ONGOING-REMEDIAL ACTION PLAN CLEANUP ACTIVITY IN PROGRESS

CONTAMINATED DWELLS: SOIL: Y SUR WATER: N GR WATER: N MON WELL: N # DW WELLS CONTAMINATED: 0

POLLUTANT TYPE AND ESTIMATED
GALLONS (IF REPORTED):

1) LEADED GAS/
3) /
5) /
7) /

2) UNLEADED GAS/
4) /
6) /
8) /

*****CLEANUP INFORMATION*****

(for specific discharge noted above)

CLNUP PROG: ATRP-ABANDONED TANK RESTORATION PROGRAM

CLNUP LEAD: REIMBURSEMENT

APPL RCVD: 6/12/92

ELIG STATUS: ELIGIBLE

ELIG STATUS DATE: 2/12/93

ELIG REDETERMINED?: N

FREE PRODUCT REMOVAL? (Y/N):

SOIL REMOVAL? (Y/N):

SOIL TONNAGE REMOVED:

SOIL TREATMENT? (Y/N):

OTHER TREATMENT?:

****SITE ASSESSMENT****

CLEANUP RESP: RESPONSIBLE PARTY
ACTUAL COMPLETION DATE: 8/1/94
PAYMENT DATE:
ACTUAL COST:

****REMEDIAL ACTION PLAN****

CLEANUP RESP: RESPONSIBLE PARTY
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

****REMEDIAL ACTION****

CLEANUP RESP:
ACTUAL COST:
YEARS TO COMPL:

****SITE REHABILITATION COMPLETION REPORT****

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

****SOURCE REMOVAL****

CLEANUP RESP:
ORAL DATE:
WRITTEN DATE:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
COST:
COMPLETION STATUS:

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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

8/28/02

(PCTS)

PCTS Page 6 of 8

FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

MAP ID NUMBER:

3

PCTS

9201573
MASTERS ECONOMY INN
27807 HWY 54
WESLEY CHAPEL, FL 33543

HLC PROPERTIES INC
PO BOX 13069
SAVANNAH, GA 31416-
OWNER CONTACT TEL #: 9123524493
OWNER CONTACT: MAX C RISTER

FAC TEL #: 8139730155 FACILITY STATUS: CLOSED
FAC OPERATOR: HLC PROPERTIES INC FACILITY TYPE: FUEL USER/NON-RETAIL
FACILITY CLEANUP STATUS: ONGOING- AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 5/15/92 DISCHARGE ID: 101544

SCORE/RANK: 30 / 4520 SCORE EFF DATE: 11/4/97 INSPECTION DATE:
LEAD AGENCY: BUR WASTE CLEANUP CLEANUP WORK STATUS: COMB CLEANUP W/DIS ID:
INFO SOURCE: DISCHARGE NOTIFICATION FDEP 62-770 DESCR: NEW C/U REQUIRED
DISCH CLNUP STATUS:

CONCENTRATION: SOIL: Y SUR WATER: N GR WATER: Y MON WELLS: N # DW WELLS CONTAMINATED:
POLLUTANT TYPE AND ESTIMATED 1) / 2) /
GALLONS (IF REPORTED): 3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****

(for specific discharge noted above)

CLNUP PROG: CLNUP LEAD:
APPL RCVD: ELIG STATUS: ELIG STATUS DATE: ELIG REDETERMINED?:
FREE PRODUCT REMOVAL?(Y/N): SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N): OTHER TREATMENT?:

SITE ASSESSMENT

REMEDIAL ACTION PLAN

REMEDIAL ACTION

CLEANUP RESP: CLEANUP RESP: CLEANUP RESP:
ACTUAL COMPLETION DATE: ORDER COMPL DATE: ACTUAL COST:
PAYMENT DATE: ACTUAL COMPL DATE: YEARS TO COMPL:
ACTUAL COST: PAYMENT DATE:
ACTUAL COST: ACTUAL COST:

SITE REHABILITATION COMPLETION REPORT

SOURCE REMOVAL

ACTION TYPE: CLEANUP RESP:
SUBMIT DATE: ORAL DATE:
REVIEW DATE: WRITTEN DATE:
ISSUE DATE: ACTUAL COMPLETION DATE:
STATUS EFFECTIVE DATE: PAYMENT DATE:
COMMENTS: COST:
COMPLETION STATUS:

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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

8/28/02

(PCTS)

PCTS Page 7 of 8

FACILITY ID NUMBER, NAME AND LOCATION:

8943150
WATERFORD GOLF CLUB
N W CORNER OF AUBURN & BORDER RD
VENICE, FL 34292

OWNERSHIP INFORMATION:

CAPRI ISLES GOLF INC
1454 GLENEAGLES DR
VENICE, FL 34292-2201
OWNER CONTACT TEL #: 9414846621
OWNER CONTACT: ROB MCCOY

MAP ID NUMBER:



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FAC TEL #: 9414846621

FACILITY STATUS: OPEN

FAC OPERATOR: ROB MCCOY

FACILITY TYPE: FUEL USER/NON-RETAIL

FACILITY CLEANUP STATUS: ONGOING--AT LEAST ONE CLEANUP ACTIVITY IS IN PROGRESS AT A RELATED DISCHARGE

*******DISCHARGE INFORMATION*******

DISCHARGE ID: 6/29/95 DISCHARGE ID: 25137

SCORE/RANK: 71 /

SCORE EFF DATE: 1/6/98

INSPECTION DATE: 6/29/95

LEAD AGENCY: LOCAL PROGRAM

CLEANUP WORK STATUS: ACTIVE

COMB CLEANUP W/DIS ID: 2513

INFO SOURCE: DISCHARGE NOTIFICATION

FDEP 62-770 DESCR: NEW CLEANUP REQUIRED

DISCH CLNUP STATUS: 6/27/01

SA ONGOING- SITE ASSESSMENT CLEANUP ACTIVITY IN PROGRESS

OVERFLOWED MEDIA SOIL: Y SUR WATER: N GR WATER: Y MON WELL: Y # DW WELLS CONTAMINATED: 0

POLLUTANT TYPE AND ESTIMATED GALLONS (IF REPORTED):

1) VEHICULAR DIESEL/
3) /
5) /
7) /

2) UNLEADED GAS/
4) /
6) /
8) /

*******CLEANUP INFORMATION*******

(for specific discharge noted above)

CLNUP PROG: PLIRP-PETROLEUM LIABILITY INSURANCE & RESTORATION PROGRAM

CLNUP LEAD: REIMBURSEMENT

APPL RCVD: 7/24/95

ELIG STATUS: ELIGIBLE

ELIG STATUS DATE: 8/11/95

ELIG REDETERMINED?: N

FREE PRODUCT REMOVAL? (Y/N):

SOIL REMOVAL? (Y/N):

SOIL TONNAGE REMOVED:

SOIL TREATMENT? (Y/N):

OTHER TREATMENT?:

****SITE ASSESSMENT****

CLEANUP RESP:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

****REMEDIAL ACTION PLAN****

CLEANUP RESP:
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

****REMEDIAL ACTION****

CLEANUP RESP:
ACTUAL COST:
YEARS TO COMPL:

****SITE REHABILITATION COMPLETION REPORT****

ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
STATUS EFFECTIVE DATE:
COMMENTS:

****SOURCE REMOVAL****

CLEANUP RESP:
ORAL DATE:
WRITTEN DATE:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
COST:
COMPLETION STATUS:

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FDEP PETROLEUM CONTAMINATION TRACKING SYSTEM REPORT

8/28/02

(PCTS)

PCTS Page 8 of 8

FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

MAP ID NUMBER:

6

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8943150 --HISTORICAL ENTRY--
CAPRI ISLES GOLF, INC
849 CAPRI ISLES BLVD
VENICE, FL 34292

CAPRI ISLES GOLF INC
849 CAPRI ISLES BLVD
VENICE, FL 34292201
OWNER CONTACT TEL #: 8134853371
OWNER CONTACT: ROB MCCOY

FAC TEL #: 9414846621

FACILITY STATUS:

FAC OPERATOR:

FACILITY TYPE: NON-RETAIL BUSINESS

FACILITY CLEANUP STATUS:

*****DISCHARGE INFORMATION*****

DISCHARGE DATE: 6/29/95 DISCHARGE ID: 101885

SCORE/RANK: / SCORE EFF DATE: INSPECTION DATE:
LEAD AGENCY: LOCAL PROGRAM CLEANUP WORK STATUS: COMB CLEANUP W/DIS ID:
INFO SOURCE: DISCHARGE NOTIFICATION FDEP 62-770 DESCR: NEW C/U REQUIRED
DISCH CLNUP STATUS:

CONTAMINATED WELLS: SOIL: Y SUR WATER: N GR WATER: Y MON WELL: Y # DW WELLS CONTAMINATED:
POLLUTANT TYPE AND ESTIMATED 1) UNLEADED GAS/ 2) VEHIC DIESEL/
GALLONS (IF REPORTED): 3) / 4) /
5) / 6) /
7) / 8) /

*****CLEANUP INFORMATION*****
(for specific discharge noted above)

CLNUP PROG: CLNUP LEAD:
APPL RCVD: ELIG STATUS: ELIG STATUS DATE: ELIG REDETERMINED?:
FREE PRODUCT REMOVAL? (Y/N): SOIL REMOVAL? (Y/N): SOIL TONNAGE REMOVED:
SOIL TREATMENT? (Y/N): OTHER TREATMENT?:

****SITE ASSESSMENT****

****REMEDIAL ACTION PLAN****

****REMEDIAL ACTION****

CLEANUP RESP: CLEANUP RESP: CLEANUP RESP:
ACTUAL COMPLETION DATE: ORDER COMPL DATE: ACTUAL COST:
PAYMENT DATE: ACTUAL COMPL DATE: YEARS TO COMPL:
ACTUAL COST: PAYMENT DATE:
ACTUAL COST:

****SITE REHABILITATION COMPLETION REPORT****

****SOURCE REMOVAL****

ACTION TYPE: CLEANUP RESP:
SUBMIT DATE: ORAL DATE:
REVIEW DATE: WRITTEN DATE:
ISSUE DATE: ACTUAL COMPLETION DATE:
STATUS EFFECTIVE DATE: PAYMENT DATE:
COMMENTS: COST:
COMPLETION STATUS:

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**FDEP STORAGE TANKS REPORT
(TANKS)**

8/28/02

TANKS Page 1 of 10

The Florida Department of Environmental Protection (FDEP) STORAGE TANKS REPORT identifies those facilities or locations that have registered aboveground and/or underground storage tanks pursuant to the notification requirements found in applicable chapters of the Florida Administrative Code. This Report is generated from the FDEP Storage Tank and Contamination Monitoring Database. In addition, this report contains facilities or locations that have registered with the FDEP as current and former dry cleaning operations. The EDM TANKS report contains tank system details including the age of the tank(s), capacity, construction type, contents, type of leak monitoring system and current status (i.e. active or removed). An explanation of codes for tank construction, monitoring and piping is provided on the following page.

The EDM NON-MAPPED RECORDS TABLE is a listing of those records that could not be mapped, due to insufficient address information. We recommend reviewing this section since it is possible that a facility listed in this section may fall within your search area. If more specific information relative to a particular site listed in this table is required, please contact us and we will send you this more detailed information as an addendum to this report, at no additional charge.

Please see the following page for an explanation of tank construction, monitoring and piping codes.

T
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Agency File Date: 5/3/02

Received by EDM: 6/21/02

EDM Database Updated: 6/24/02

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FDEP STORAGE TANKS REPORT (TANKS)

8/28/02

TANKS Page 2 of 10

EXPLANATION OF CODES

CONSTRUCTION TYPE CODES

A = BALL CHECK VALVE
B = INTERNAL LINING
C = STEEL
D = UNKNOWN
E = FIBERGLASS
F = FIBERGLASS-CLAD STEEL
G = CATHODIC PROTECTION-SACRIFICIAL ANODE
H = CATHODIC PROTECTION -IMPRESSED CURRENT
I = DBL WALL/SINGLE MATERIAL
J = SYNTHETIC LINER IN TANK EXCAVATION
K = AST CONTAINMENT: CONCRETE /SYNTHETIC MATERIAL AREA
L = COMPARTMENTED
M = SPILL CONTAINMENT BUCKET
N = FLOW SHUT OFF
O = TIGHT FILL
P = LEVEL GAUGES, HI LEVEL ALARMS
Q = OTHER DER APPROVED PROTECTION METHOD
R = DBL WALL/DUAL MATERIAL/ (TANK "JACKET")
S = OTHER DEP APPROVED SECONDARY CONTAINMENT SYSTEM
T = SMALL USE TANK
U = FIELD ERECTED TANK
V = PIPELESS UST W/SECONDARY CONTAINMENT
W = BUILT ON SUPPORTS
X = CONCRETE
Y = POLYETHYLENE
Z = OTHER DEP APPROVED TANK MATERIAL

PIPING TYPE CODES

A = ABOVE GROUND-NO CONTACT W/SOIL
B = STEEL OR GALVANIZED METAL
C = FIBERGLASS
D = EXTERNAL PROTECTIVE COATING
E = CATHODIC PROTECTION (SACRIFICIAL ANODE / IMPRESSED CURRENT)
F = DBLWALL/SINGLE MATERIAL
G = SYNTHETIC OR BOX/TRENCH LINER
H = AIRPORT/SEAPORT HYDRANT SYSTEM
I = SUCTION PIPING SYSTEM
J = PRESSURIZED PIPING SYSTEM
K = DISPENSER LINERS
L = BULK PRODUCT SYSTEM
M = DOUBLE WALL / DUAL MATERIAL (PIPE "JACKET")
N = APPROVED SYNTHETIC MATERIAL
O = SEVERE VIOLATION
P = INTERNAL PIPING WITHIN INTERNAL SUMP RISER
V = VIOLATION
X = NO PIPING ASSOCIATED WITH TANK
Y = UNKNOWN
Z = OTHER DEP APPROVED PIPING MATERIAL

LEAK MONITORING CODES

1 = CONTINUOUS ELECTRONIC SENSING EQUIPMENT
2 = VISUAL INSPECTIONS OF PIPING SUMPS
3 = ELECTRONIC MONITORING OF PIPING SUMPS
4 = VISUAL INSPECTIONS OF DISPENSING LINERS
5 = ELECTRONIC MONITORING OF DISPENSER LINERS
6 = EXTERNAL PIPING MONITORING
7 = AUTOMATICALLY SAMPLED WELLS
8 = MANUALLY SAMPLED WELLS
A = SITE SUITABILITY PLAN
B = SITE SUITABILITY PLAN EXEMPTION
C = GROUNDWATER MONITOR PLAN
D = SPCC PLAN
E = INTERSTITIAL MONITORING UST LINERS
F = INTERSTITIAL SPACE-DOUBLE WALL TANK
G = ELECTRONIC LINE LEAK DETECTOR W/FLOW SHUTOFF
H = MECHANICAL LINE LEAK DETECTOR
I = NOT REQUIRED-SEE RULE FOR EXEMPTIONS
J = INTERSTITIAL MONITORING-PIPING LINER
K = INTERSTITIAL MONITORING- DOUBLE WALL PIPING
L = AUTOMATIC TANK GAUGING SYSTEM (USTS)
M = MANUAL TANK GAUGING SYSTEM (USTS)
N = GROUNDWATER MONITORING SYSTEM
O = VAPOR MONITORING SYSTEM
P = VAPOR MONITORING W/DILUTION PROCEDURES
Q = VISUAL INSPECTION OF AST SYSTEMS
R = INTERSTITIAL MONITORING OF TANK BOTTOM
S = STATISTICAL INVENTORY RECONCILIATION (SIR/USTS)
T = ANNUAL TIGHTNESS TEST WITH INVENTORY (UST)
U = BULK PIPING PRESSURE TEST
V = SUCTION PUMP CHECK VALVE
W = FIBER-OPTIC TECHNOLOGIES
X = NONE
Y = UNKNOWN
Z = OTHER DEP APPROVED MONITORING METHOD

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FDEP STORAGE TANKS REPORT (TANKS)

8/28/02

TANKS Page 3 of 10

FACILITY ID NUMBER, NAME AND LOCATION:

8520035
 AMOCO-WESLEY CHAPEL
 27741 HWY 54
 WESLEY CHAPEL, FL 33543

MAP ID NUMBER:

1

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OWNERSHIP INFORMATION:

RADIANT GROUP LLC
 P O BOX 5238
 TAMPA, FL 33675

FACILITY TEL #: 8139730884
 FACILITY OPERATOR:
 FACILITY TYPE: Retail Station

CONTACT TEL #: 813-247-4731
 CONTACT: JOHN P MYERS JR
 FACILITY STATUS: OPEN

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
10000		01-JUN-1984	Unleaded Gas	UNDERGROUND	IN SERVICE
CONSTRUCTION TYPE(see code sheet): GMCN PIPING TYPE(see code sheet): EJBK LEAK MONITORING(see code sheet): LHG214					
10000		01-JUN-1984	Unleaded Gas	UNDERGROUND	IN SERVICE
CONSTRUCTION TYPE(see code sheet): NCGM PIPING TYPE(see code sheet): EJBK LEAK MONITORING(see code sheet): 214HGL					
10000		01-JUN-1984	Unleaded Gas	UNDERGROUND	IN SERVICE
CONSTRUCTION TYPE(see code sheet): GMCN PIPING TYPE(see code sheet): EJBK LEAK MONITORING(see code sheet): LGH241					
10000		01-JUN-1984	Vehicular Diesel	UNDERGROUND	IN SERVICE
CONSTRUCTION TYPE(see code sheet): CNGM PIPING TYPE(see code sheet): EJBK LEAK MONITORING(see code sheet): 241LHG					

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FDEP STORAGE TANKS REPORT (TANKS)

8/28/02

TANKS Page 4 of 10

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FACILITY ID NUMBER, NAME AND LOCATION:
 8520035 - HISTORICAL ENTRY
 AMOCO #10710
 15016 W HWY 54
 WESLEY CHAPEL, FL 34249

MAP ID NUMBER:
OWNERSHIP INFORMATION:
 BP AMOCO OIL CORP
 600 CORPORATE DR #500
 FORT LAUDERDALE, FL 33334

FACILITY TEL #: 8139730884
FACILITY OPERATOR: SPENCER, WAYNE
FACILITY TYPE: RETAIL STATION

CONTACT TEL #: 9549382709
CONTACT: KELLY DOMBROSKI DAVID POR
FACILITY STATUS: OPEN

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
10000		6/1/84	UNLEADED GAS	UNDERGROUND	IN SERVICE
<p><small>CONSTRUCTION TYPE(see code sheet): GMCN</small></p> <p><small>PIPING TYPE(see code sheet): EJBK</small></p> <p><small>LEAK MONITORING(see code sheet): L8H</small></p>					
10000		6/1/84	UNLEADED GAS	UNDERGROUND	IN SERVICE
<p><small>CONSTRUCTION TYPE(see code sheet): GMCN</small></p> <p><small>PIPING TYPE(see code sheet): EJBK</small></p> <p><small>LEAK MONITORING(see code sheet): L8H</small></p>					
10000		6/1/84	UNLEADED GAS	UNDERGROUND	IN SERVICE
<p><small>CONSTRUCTION TYPE(see code sheet): GMCN</small></p> <p><small>PIPING TYPE(see code sheet): EJBK</small></p> <p><small>LEAK MONITORING(see code sheet): L8H</small></p>					
10000		6/1/84	VEHICULAR DIESEL	UNDERGROUND	IN SERVICE
<p><small>CONSTRUCTION TYPE(see code sheet): GMCN</small></p> <p><small>PIPING TYPE(see code sheet): EJBK</small></p> <p><small>LEAK MONITORING(see code sheet): L8H</small></p>					

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FDEP STORAGE TANKS REPORT (TANKS)

8/28/02

TANKS Page 5 of 10

FACILITY ID NUMBER, NAME AND LOCATION:

9802983
BP AMOCO (USE #8520035)
27741 S R 54
WESLEY CHAPEL, FL 34249-

MAP ID NUMBER:

1

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OWNERSHIP INFORMATION:

BP AMOCO OIL CORP
8736 W COMMERCIAL BLVD
LAUDERHILL, FL 33351-

FACILITY TEL #:

CONTACT TEL #: 9545782100

FACILITY OPERATOR:

CONTACT: RICHARD ALVEAR

FACILITY TYPE: RETAIL STATION

FACILITY STATUS: DELETED

TANK #: **TANK VOL(GALS):** **INST.DATE:** **TANK CONTENTS:**

TANK POSITION: **TANK STATUS (as of...):**

0

UNLEADED GAS

ABOVEGROUND

DELETED 7/1/00

CONSTRUCTION TYPE(see code sheet):

PIPING TYPE(see code sheet):

LEAK MONITORING(see code sheet):

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FDEP STORAGE TANKS REPORT

(TANKS)

8/28/02

TANKS Page 6 of 10

FACILITY ID NUMBER, NAME AND LOCATION:

8515016
 CITRUS COUNTY GROVES
 28009 HWY 54 W & I-75
 WESLEY CHAPEL, FL 33599

MAP ID NUMBER:

2

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OWNERSHIP INFORMATION:

MOTIVA ENTERPRISES LLC
 650 S NORTH LAKE BLVD #450
 ALTAMONTE SPRING, FL 32701

FACILITY TEL #: 8139737998

FACILITY OPERATOR:

FACILITY TYPE: Retail Station

CONTACT TEL #: 407-263-7029

CONTACT: CATHERINE FIELDS OR KEN W

FACILITY STATUS: OPEN

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
10000		01-NOV-1982	Vehicular Diesel	UNDERGROUND	REMOVED 01-FEB-1993
<i>CONSTRUCTION TYPE(see code sheet): AC</i>					
<i>PIPING TYPE(see code sheet): B</i>					
<i>LEAK MONITORING(see code sheet): 8</i>					
10000		01-NOV-1982	Unleaded Gas	UNDERGROUND	REMOVED 01-FEB-1993
<i>CONSTRUCTION TYPE(see code sheet): AC</i>					
<i>PIPING TYPE(see code sheet): B</i>					
<i>LEAK MONITORING(see code sheet): 8</i>					
10000		01-NOV-1982	Unleaded Gas	UNDERGROUND	REMOVED 01-FEB-1993
<i>CONSTRUCTION TYPE(see code sheet): AC</i>					
<i>PIPING TYPE(see code sheet): B</i>					
<i>LEAK MONITORING(see code sheet): 8</i>					
10000		01-NOV-1982	Leaded Gas	UNDERGROUND	REMOVED 01-FEB-1993
<i>CONSTRUCTION TYPE(see code sheet): AC</i>					
<i>PIPING TYPE(see code sheet): B</i>					
<i>LEAK MONITORING(see code sheet): 8</i>					
15000		01-JUL-1996	Unleaded Gas	UNDERGROUND	IN SERVICE 01-JUL-1996
<i>CONSTRUCTION TYPE(see code sheet): AMOIE</i>					
<i>PIPING TYPE(see code sheet): CFJK</i>					
<i>LEAK MONITORING(see code sheet): FKL</i>					

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FDEP STORAGE TANKS REPORT
(TANKS)

8/28/02

TANKS Page 7 of 10

FACILITY ID NUMBER, NAME AND LOCATION:

9201573
MASTERS ECONOMY INN
27807 HWY 54
WESLEY CHAPEL, FL 33543

MAP ID NUMBER:

3

T
A
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OWNERSHIP INFORMATION:

HLC PROPERTIES INC
PO BOX 13069
SAVANNAH, GA 31416

FACILITY TEL #: 8139730155

FACILITY OPERATOR:

FACILITY TYPE: Fuel user/Non-retail

CONTACT TEL #: 912-352-4493

CONTACT: MAX C RISTER

FACILITY STATUS: CLOSED

TANK #: TANK VOL(GALS): INST.DATE: TANK CONTENTS:

TANK POSITION: TANK STATUS (as of...):

[REDACTED]

CONSTRUCTION TYPE(see code sheet):

PIPING TYPE(see code sheet):

LEAK MONITORING(see code sheet):

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FDEP STORAGE TANKS REPORT (TANKS)

8/28/02

TANKS Page 8 of 10

FACILITY ID NUMBER, NAME AND LOCATION:

OWNERSHIP INFORMATION:

MAP ID NUMBER:

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9804628
7-ELEVEN FOOD STORE #33019
5102 POINTE OF TAMPA WAY
TAMPA, FL 33647

FACILITY TEL #: 8132748000

CONTACT TEL #:

FACILITY OPERATOR:

CONTACT:

FACILITY TYPE: Retail Station

FACILITY STATUS: OPEN

TANK #: TANK VOL(GALS): INST.DATE: TANK CONTENTS: TANK POSITION: TANK STATUS (as of...):

1 10000 01-JAN-2002 Unleaded Gas UNDERGROUND IN SERVICE

CONSTRUCTION TYPE(see code sheet): AEIMNOP

PIPING TYPE(see code sheet): NMJK

LEAK MONITORING(see code sheet): 1234FHKL

TANK #: TANK VOL(GALS): INST.DATE: TANK CONTENTS: TANK POSITION: TANK STATUS (as of...):

2 15000 01-JAN-2002 Unleaded Gas UNDERGROUND IN SERVICE

CONSTRUCTION TYPE(see code sheet): AEIMNOP

PIPING TYPE(see code sheet): NMJK

LEAK MONITORING(see code sheet): 1234FHKL

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FDEP STORAGE TANKS REPORT
(TANKS)

8/28/02

TANKS Page 9 of 10

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FACILITY ID NUMBER, NAME AND LOCATION:

9201543
VENICE CITY-E WWTP
3510 LAUREL RD
NOKOMIS, FL 34275

MAP ID NUMBER:

OWNERSHIP INFORMATION:

VENICE CITY
401 W VENICE AVE
VENICE, FL 34285

FACILITY TEL #: 9414862788

FACILITY OPERATOR:

FACILITY TYPE: Local Government

CONTACT TEL #: 813-485-3311

CONTACT: L A HEATH JR

FACILITY STATUS: OPEN

TANK #: TANK VOL(GALS): INST.DATE: TANK CONTENTS: TANK POSITION: TANK STATUS (as of...):

3500 01-JAN-1991 Vehicular Diesel

ABOVEGROUND IN SERVICE

CONSTRUCTION TYPE(see code sheet): CKP

PIPING TYPE(see code sheet): BIA

LEAK MONITORING(see code sheet): Q

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FDEP STORAGE TANKS REPORT

(TANKS)

8/28/02

TANKS Page 10 of 10

FACILITY ID NUMBER, NAME AND LOCATION:

8943150
 WATERFORD GOLF CLUB
 N W CORNER OF AUBURN & BORDER RD
 VENICE, FL 34292

MAP ID NUMBER:

6

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OWNERSHIP INFORMATION:

CAPRI ISLES GOLF INC
 1454 GLENEAGLES DR
 VENICE, FL 34292

FACILITY TEL #: 9414846621

CONTACT TEL #: 941-484-6621

FACILITY OPERATOR:

CONTACT: ROB MCCOY

FACILITY TYPE: Fuel user/Non-retail

FACILITY STATUS: OPEN

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...):</u>
1	550	01-OCT-1988	Unleaded Gas	UNDERGROUND	REMOVED 01-APR-1991
<p>CONSTRUCTION TYPE(see code sheet): AF PIPING TYPE(see code sheet): C LEAK MONITORING(see code sheet): 8</p>					
2	550	01-OCT-1988	Vehicular Diesel	UNDERGROUND	REMOVED 01-APR-1991
<p>CONSTRUCTION TYPE(see code sheet): AF PIPING TYPE(see code sheet): C LEAK MONITORING(see code sheet): 8</p>					
3	500	01-MAY-1991	Unleaded Gas	ABOVEGROUND	IN SERVICE 02-DEC-1996
<p>CONSTRUCTION TYPE(see code sheet): CK PIPING TYPE(see code sheet): BG LEAK MONITORING(see code sheet): Z</p>					
4	500	01-MAY-1991	Vehicular Diesel	ABOVEGROUND	IN SERVICE 02-DEC-1996
<p>CONSTRUCTION TYPE(see code sheet): CK PIPING TYPE(see code sheet): BG LEAK MONITORING(see code sheet): Z</p>					

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Appendix B

Site Specific Data

Site No. 2 – Morris Bridge Landfill



Site No. 2 – Morris Bridge Landfill



Site No. 2 – Morris Bridge Landfill

Site No. 4 – Tampa Towers, Inc.



Site No. 4 – Tampa Towers, Inc.



Site No. 4 – Tampa Towers, Inc.

Site No. 15 – Former Construction Staging Area



Site No. 15 – Former Construction Staging Area



Site No. 15 – Former Construction Staging Area

**Site No. 16 – Old Wesley Chapel Waste Water
Treatment Plant**



Site No. 16 – Old Wesley Chapel Waste Water Treatment Plant



Site No. 16 – Old Wesley Chapel Waste Water Treatment Plant

INTRODUCTION

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WEST REGIONAL DISTRICT

Since 1987, when the first phase construction permit was granted, Pasco County has been developing the Wesley Chapel Subregional Wastewater Reuse Facility. The term subregional as used by Pasco County, evolved from the deliberate downsizing of the larger regional facility concept that was popular in the 1970's when federal grants funded reserve capacity in such facilities. Pasco County's plan involves subdividing the County into modestly sized subregional service areas allowing for similar treatment facility type and size. This similarity between sister facilities allows Pasco County to maximize commonality between facilities and achieve economies of design, construction, operation, maintenance, and parts inventory.

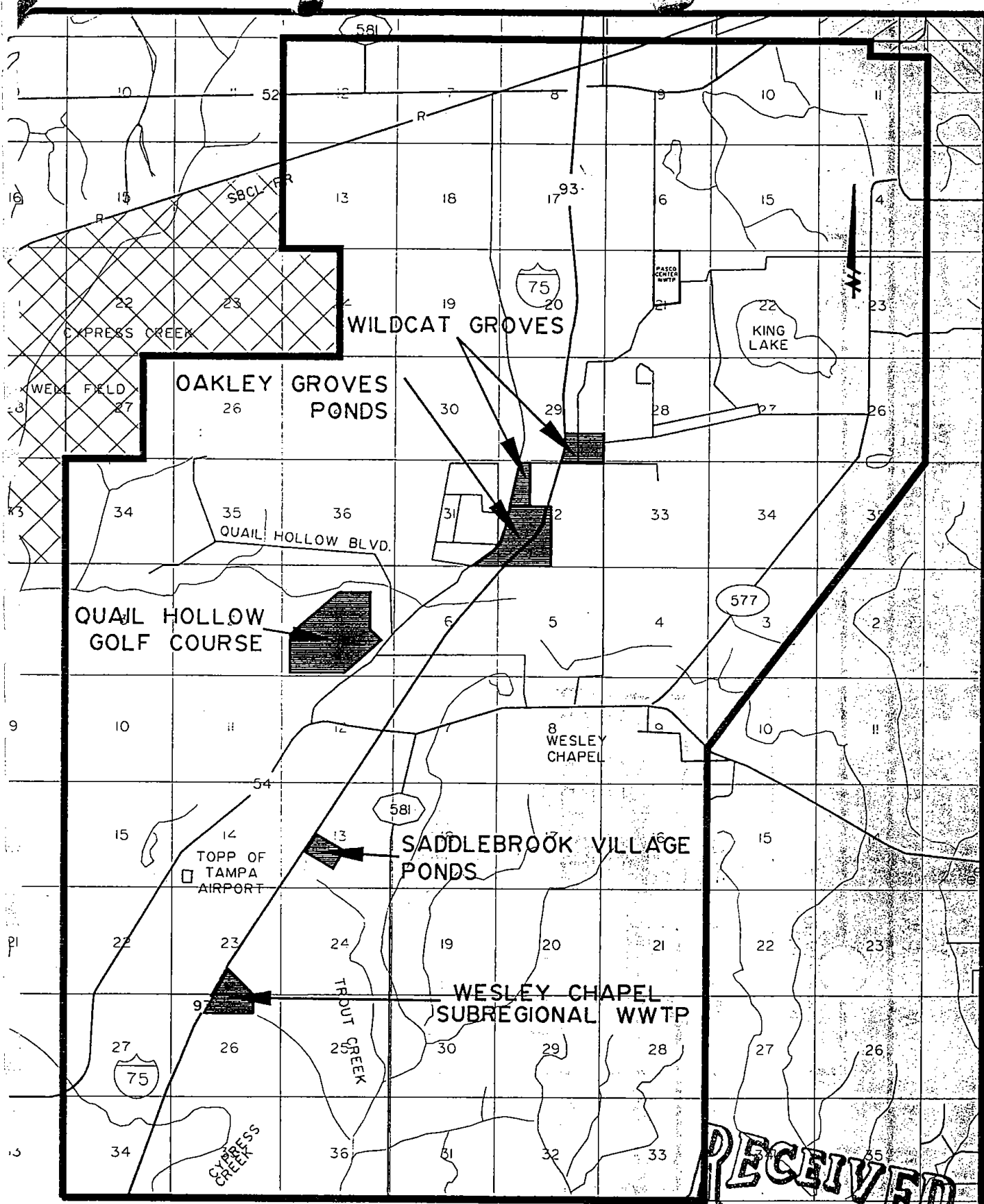
All of Pasco's subregional facilities, including Wesley Chapel, have been developed with beneficial reuse of highly treated effluent, in various forms, as the preferred alternative. Unique opportunities for reuse have presented themselves at each subregional facility along with the challenge of developing alternative disposal mechanisms as backup to the primary implementation.

Figure 1 shows the approximate limits of Pasco County now considers its Wesley Chapel Subregional Service area. The service area is generally located near the intersection of I-75 and SR-54. This subregion encompasses approximately 65 square miles straddling I-75 from the Hillsborough County line northward to SR-52.

The Wesley Chapel Subregional Reuse Facility began life as a 750,000 gallons per day extended aeration package treatment facility, with effluent filtration and high level disinfection so that effluent could be reused on a nearby golf course. Wet-weather was provided by rapid-rate land application systems.

During the 1991-1994 time frame the Wesley Chapel Subregional Reuse Facility was upgraded to Reliability Class I in order to assure continued production of high quality reuse water. Figure 2 illustrates the plant configuration after completion of the Reliability Class I improvements. During the permitting of the above upgrade the facility was also downrated from 750,000 gallons per day to 600,000 gallons per day, based on annual average daily flow conditions.

Table 1 is a summary of the treatment and disposal capacities and permit numbers for the Wesley Chapel Subregional Reuse Facility as it exists today. It is the intent of this expansion that additional treatment capacity be constructed so that Pasco County's ever expanding reuse system will have adequate supply of reuse water.



HILLSBOROUGH COUNTY

WESLEY CHAPEL SUBREGIONAL SERVICE AREA

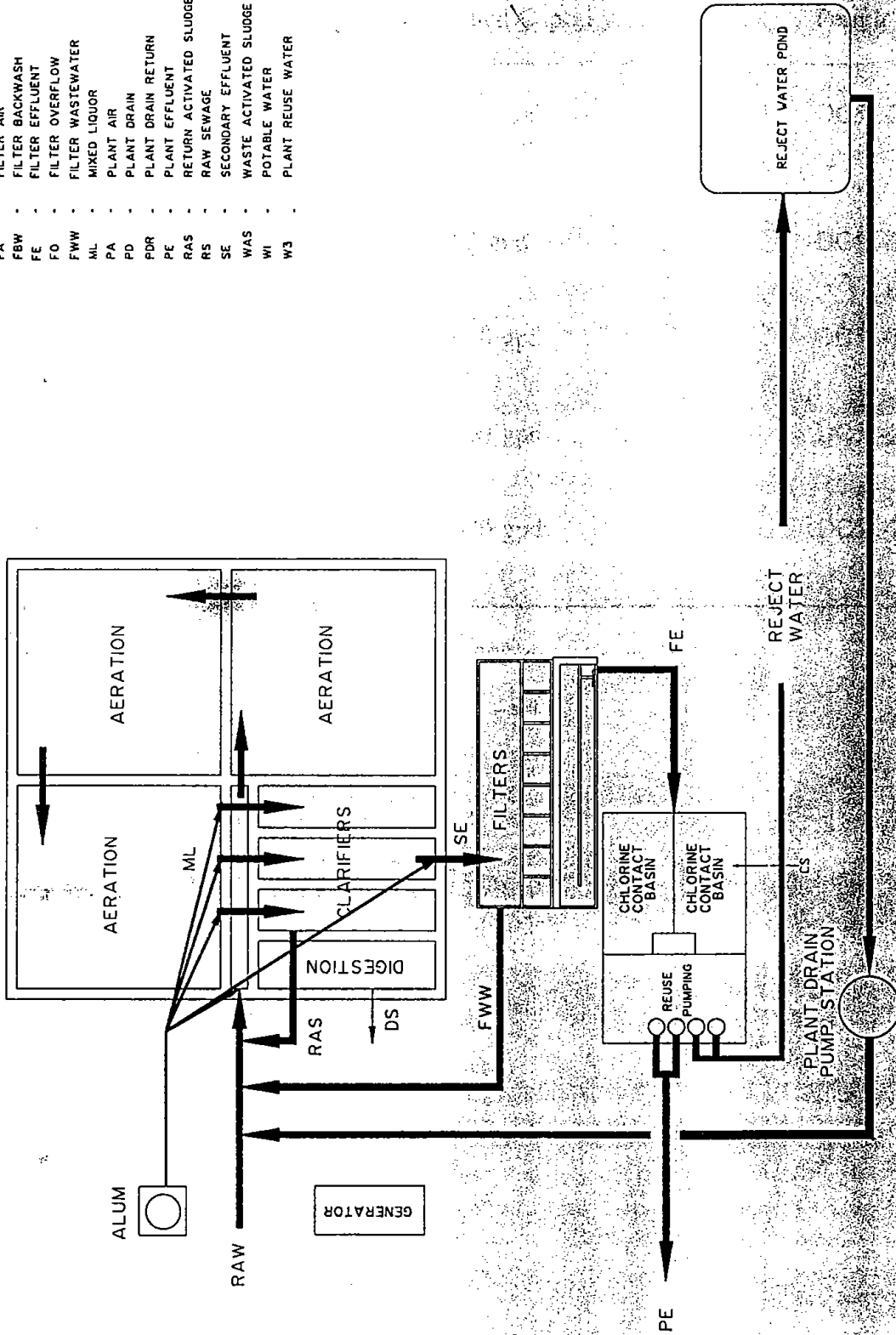
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Department of Environmental Protection
 BY SOUTHWEST DISTRICT
CDE

FIGURE I

LEGEND

- CS - CHLORINE SOLUTION
- DS - DIGESTED SLUDGE
- FA - FILTER AIR
- FBW - FILTER BACKWASH
- FE - FILTER EFFLUENT
- FO - FILTER OVERFLOW
- FWW - FILTER WASTEWATER
- ML - MIXED LIQUOR
- PA - PLANT AIR
- PD - PLANT DRAIN
- PDR - PLANT DRAIN RETURN
- PE - PLANT EFFLUENT
- RAS - RETURN ACTIVATED SLUDGE
- RS - RAW SEWAGE
- SE - SECONDARY EFFLUENT
- WAS - WASTE ACTIVATED SLUDGE
- WI - POTABLE WATER
- W3 - PLANT REUSE WATER



WESLEY CHAPEL SUBREGIONAL REUSE FACILITY
AFTER RELIABILITY CLASS 1 UPGRADE

FIGURE 2

Figure 3 is a schematic representation of the proposed modifications which are the subject of this permit application package. Based on annual average daily flow conditions the plant is being expanded from 0.60 mgd to 2.00 mgd.

The expansion is intended to be an interim expansion making maximum use of existing tanks, equipment, and facilities. At the same time the new facilities are being integrated into the future subregional plant scheme so that subsequent expansions can be done at minimum cost with little abandonment of facilities and disruption of operation.

The facilities proposed for inclusion in this project are described below. Appendix A of this document contains detailed descriptions of the design criteria for each of the major process units and their associated equipment and a U.S.G.S. quadrangle of the plant vicinity. The effluent disposal scheme for this facility will remain as currently exists which includes off-site rapid rate ponds, and off-site golf course irrigation.

1. Screening - Raw wastewater will be pumped to a new headworks structure which will contain both mechanically and manually cleaned bar screens. Flow will normally pass through the mechanically cleaned bar screen yet will overflow to the manual bar screen in the event the mechanically cleaned screen blinds.
2. Grit Removal - After passing through the new bar screen, wastewater will flow through an existing grit chamber where grit is separated from the organic solids passing through to the aeration basins.
3. Aeration Basins - The existing treatment facility has three aeration basins. A fourth aeration basin will be constructed in the tank area currently used for final sedimentation.
4. Secondary Clarification - The existing plant is equipped with three rectangular clarifiers housed within the existing package treatment plant. These clarifiers will be abandoned and the tank volume occupied by them converted to aeration. Two new 70 foot diameter clarifiers will be constructed north of the existing plant and will be sized so that 75% of plant capacity will be obtained with either of the two clarifiers out of service.
5. Return Sludge Pumps - A sludge pumping facility will be added during this expansion to return activated sludge from the newly constructed clarifiers back to the head of the treatment plant. These pumps will be sized to provide full return sludge capacity with the largest pump out of service.
6. Filtration - Two new travelling bridge filters will be added to the plant's existing eight (8) filters and sized to provide 75% of plant capacity with the largest filter unit out of service.

Site No. 18 – Citrus Country Shell



Site No. 18 – Citrus Country Shell



Site No. 18 – Citrus Country Shell



Site No. 18 – Citrus Country Shell



Site No. 18 – Citrus Country Shell

D. E. R.

AUG 19 1991

SUPPLEMENTAL INSTRUCT
TABLE A

**CONTAMINATION ASSESSMENT REPORT
FOR THE OAKLEY GROVE SITE
WESLEY CHAPEL, FLORIDA**

*Citrus County
Shell*

MARCH, 1991

Bureau of Waste Cleanup

AUG 29 1991

Technical Review Section

SECTION 1.0 INTRODUCTION

1.1 Project Background Information

During December, 1990, Florida Groundwater Services, Inc. (FGS) conducted a Level I/II Environmental Assessment of the Oakley Groves Shell Oil Site, located at SR 54 and I-75, Pasco County, Florida. This environmental assessment included soil and groundwater testing in the vicinity of the underground fuel storage tank (UGST) farm. Twenty-three (23) soil borings were installed in the vicinity of the UGST's. OVA headspace analyses were conducted at two (2.0) foot intervals at each boring location to the groundwater table to screen for organic vapors indicative of petroleum contamination. It was found that an extensive area of soil exhibited OVA concentrations above the 50 ppm, F.A.C. 17-770 threshold for a gasoline and diesel contaminated soil. In addition, groundwater samples were obtained from the four (4) existing compliance wells associated with the UGST's, as well as from three (3) monitoring wells installed by FGS during the Level I/II Environmental Assessment. Four (4) of the seven (7) wells sampled displayed concentrations of petroleum based compounds above groundwater action levels per Chapter 17-770, FAC. One well also contained evidence of free-phase petroleum product. As a result, FGS was contracted to upgrade the existing Level I/II work to a contamination assessment (CA) in order to determine the horizontal and vertical extent of any residual petroleum contamination detected on-site.

**SECTION 5.0
SUMMARY, CONCLUSIONS AND RECOMMENDATIONS**

5.1 Project Summary

At total of thirty-four (34) soil borings and seven (7) monitoring wells were installed on-site to delineate the horizontal and vertical extent of any soil or groundwater contamination associated with the UGST's.

A total of twelve (12) wells were sampled and the groundwater analyzed for EPA Methods 601, 602, and 610 parameters, Methyl-Tert-Butyl-Ether (MTBE), Ethylene Dibromide (EDB), Total Recoverable Petroleum Hydrocarbons (TRPH), and lead. The twelve (12) wells include the four (4) existing compliance wells (SMW-1 through SMW-4), seven (7) monitor wells (MW-1 through MW-7) installed by FGS during the Level I/II and CA, and one (1) existing deep potable well (DW-1).

Elevated levels of petroleum related compounds were found to be present in seven (7) of the wells sampled (MW-1, MW-2, MW-5, MW-7, SMW-1, SMW-2, and SMW-3). Low levels of petroleum parameters were also detected in wells MW-4, MW-6 and SMW-4 but below State standards or active levels. No petroleum contamination was detected in wells MW-3 or DW-1.

5.2 Conclusions and Recommendations

Based on the results obtained from the groundwater sampling program, the horizontal extent of the petroleum contaminant plume is primarily localized in the vicinity of the UGST area and to southeast. The leading edge of the dissolved phase

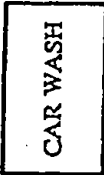
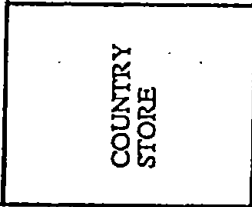
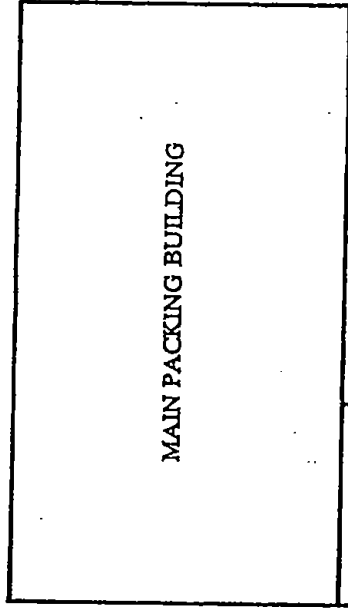
contaminant plume extends in a southeasterly direction and was delineated in MW-5.

Based on the presence of free-phase petroleum product and excessively contaminated soil, it is recommended that Initial Remedial Actions (IRA's) be initiated on-site including free-product recovery, as well as removal and disposal of the excessively contaminated soil.

Once IRA's are completed, it is further recommended that a groundwater Remedial Action Plan (RAP) be prepared and submitted to the Florida Department of Environmental Regulation (FDER) for subsequent approval prior to installation of a groundwater pump and treatment system.

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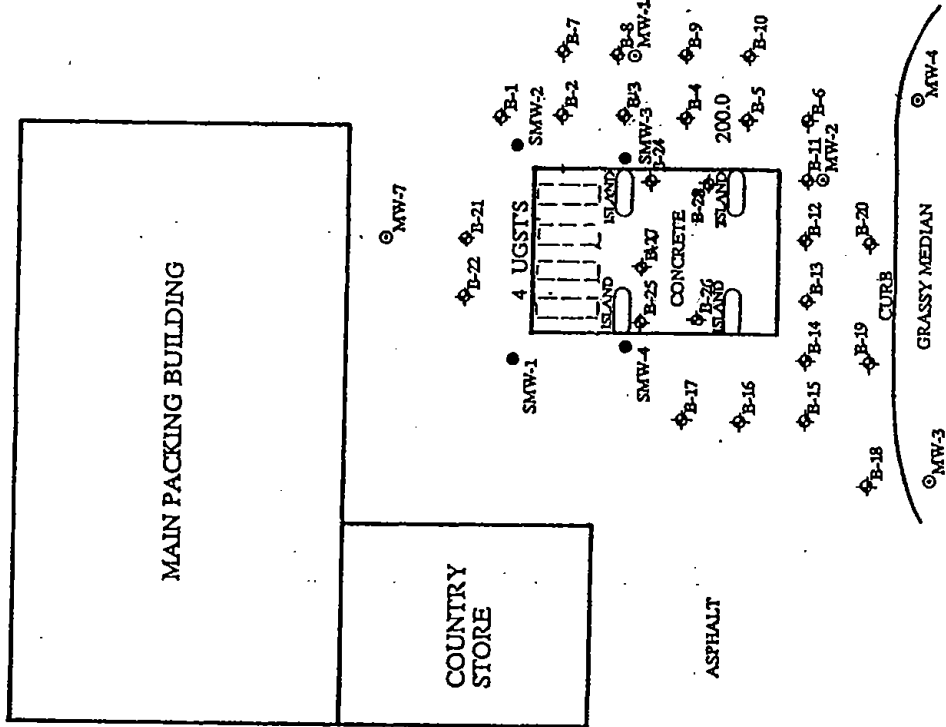
◆ STORAGE BUILDING
B-23



POTABLE WELL

LEGEND

- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- ◆ POTABLE WELL LOCATION



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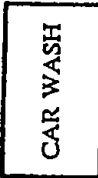
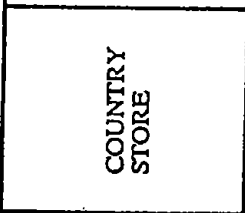
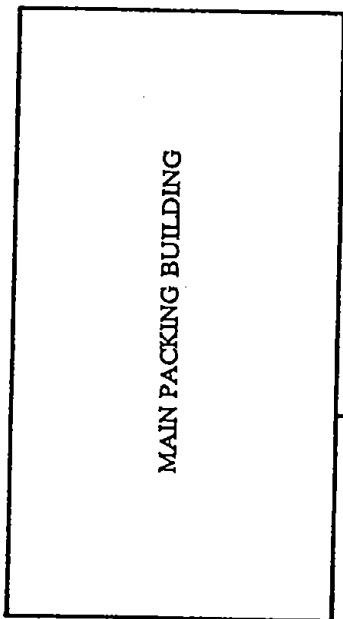
FIGURE 3

**SITE LOCATION PLAN W/
SOIL BORING AND MONITOR WELL
LOCATIONS**

STATE ROAD 54

N
SCALE: 1" = 30'

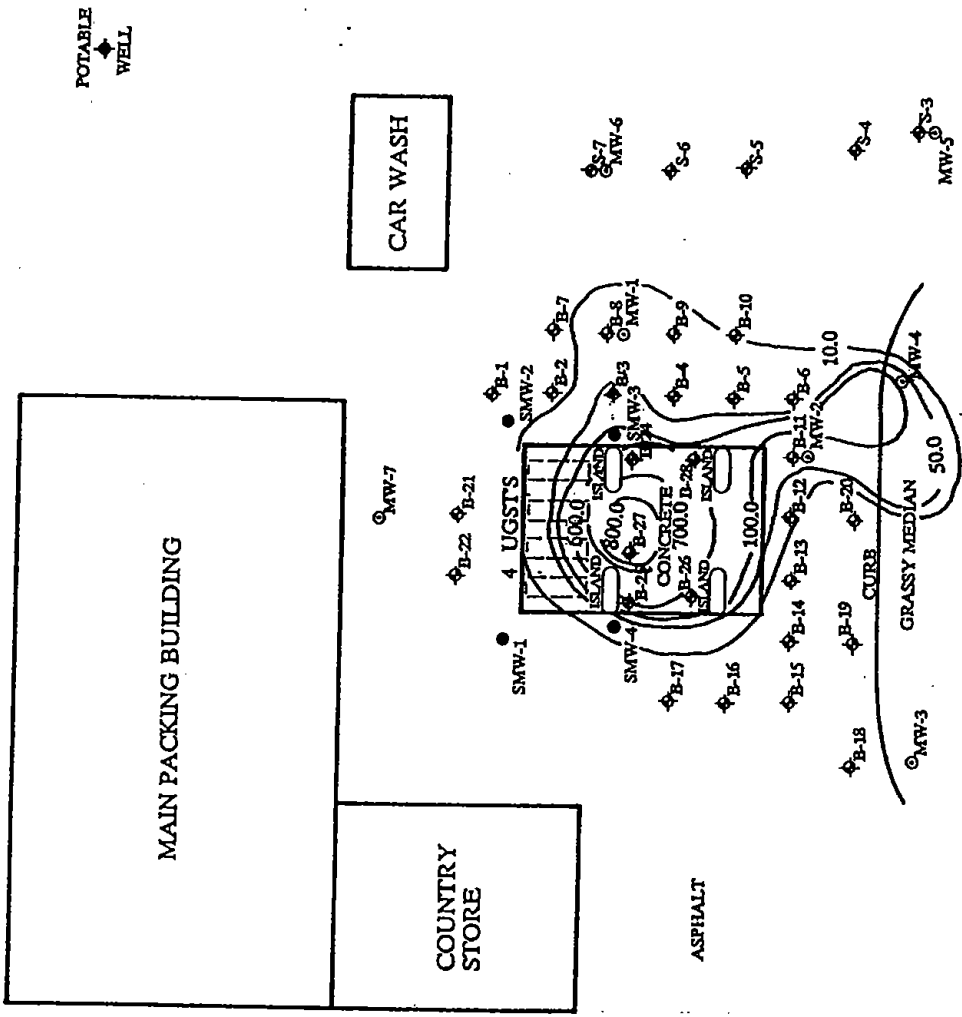
◆ STORAGE BUILDING
B-23



POTABLE
WELL

LEGEND

- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- 500.00 SOIL OVA CONCENTRATION LINES

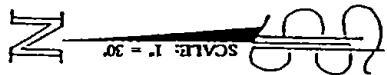


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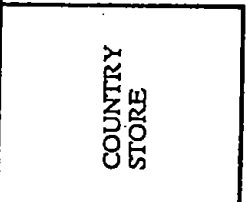
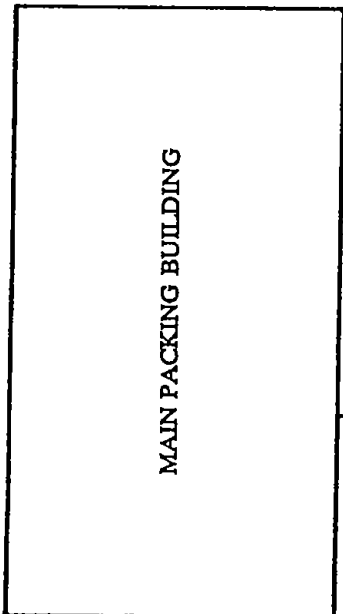
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STATE ROAD 54

FIGURE 5
SOIL OVA CONCENTRATIONS
AT 2.0' BELOW LAND SURFACE



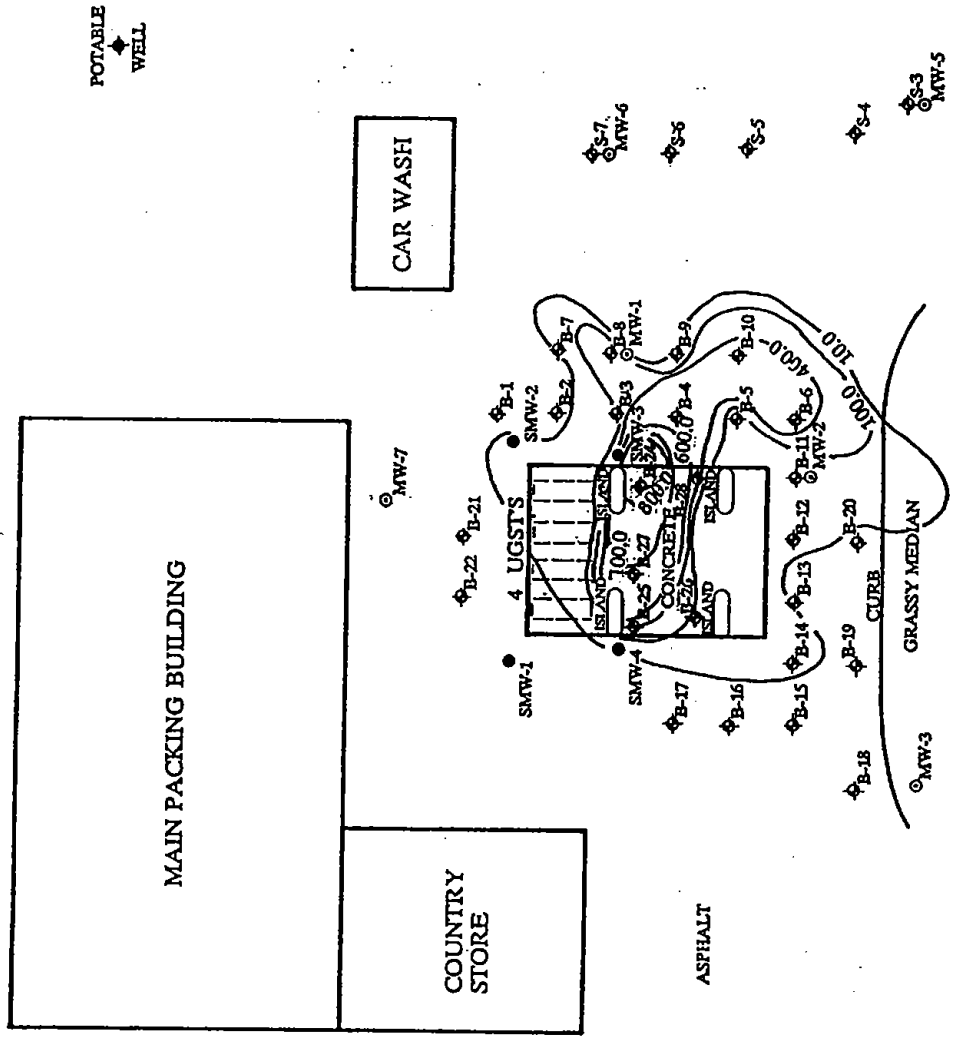
◆ I STORAGE BUILDING
B-23



POTABLE
◆
WELL

LEGEND

- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- 500.00— SOIL OVA CONCENTRATION LINES



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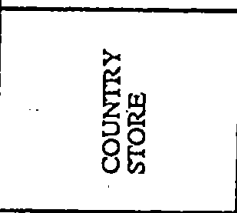
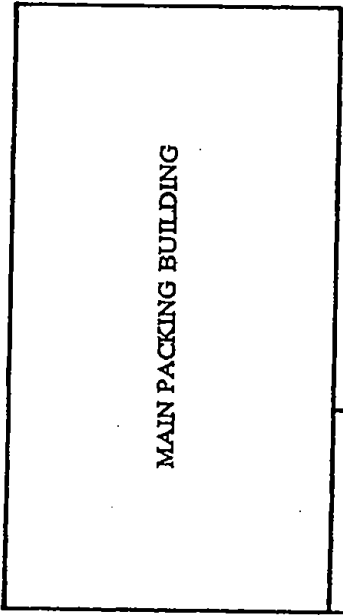
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STATE ROAD 54

FIGURE 6
SOIL OVA CONCENTRATIONS
AT 4.0' BELOW LAND SURFACE



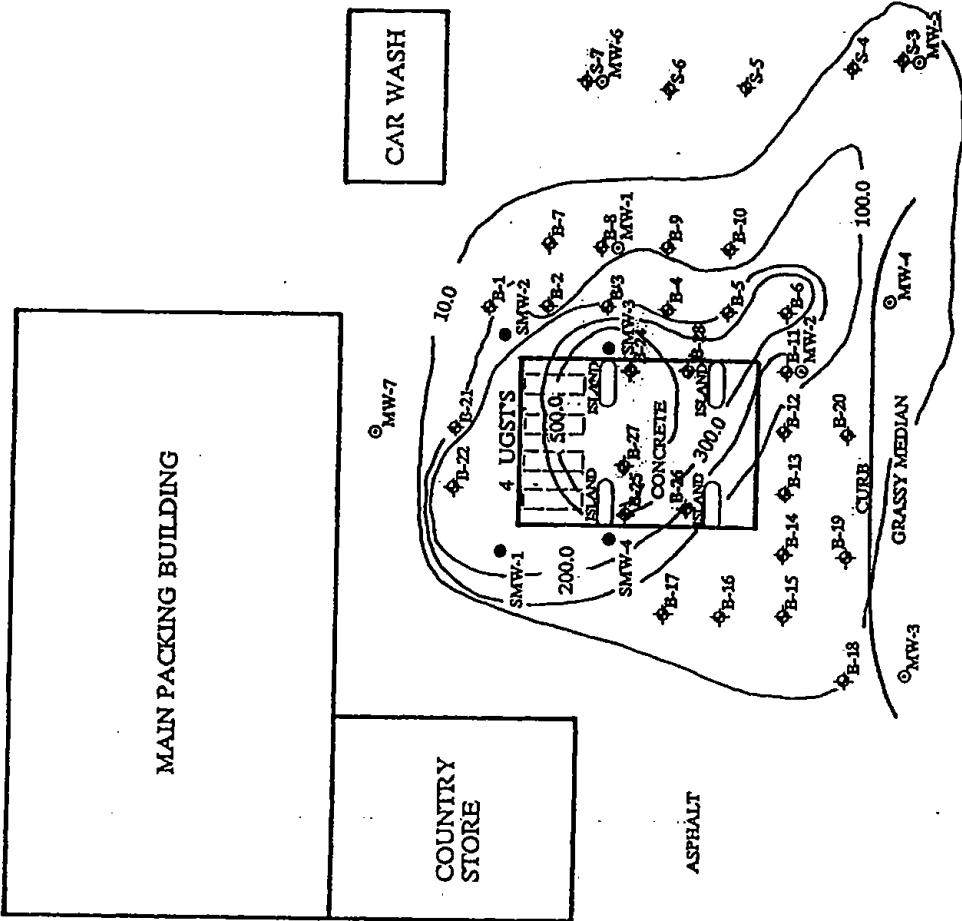
◆ L STORAGE BUILDING
B-23



POTABLE
◆
WELL

LEGEND

- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- 500.00 — SOIL OVA CONCENTRATION LINES

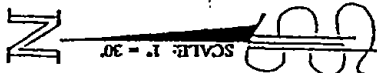


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STATE ROAD 54

FIGURE 7
SOIL OVA CONCENTRATIONS
AT 6.0' BELOW LAND SURFACE



◆ STORAGE BUILDING
B-23

MAIN PACKING BUILDING

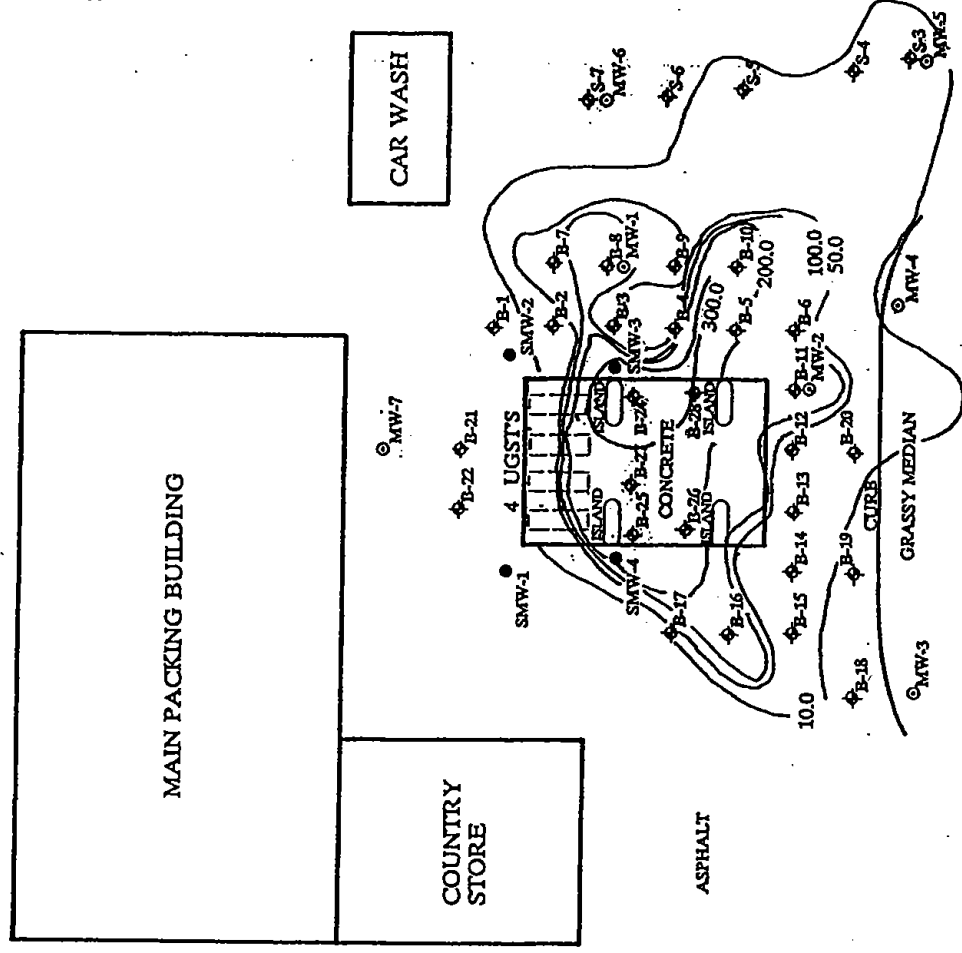
COUNTRY STORE

CAR WASH

POTABLE
WELL

LEGEND

- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- 500.00 SOIL OVA CONCENTRATION LINES



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STATE ROAD 54

FIGURE 8
SOIL OVA CONCENTRATIONS
AT 8.0' BELOW LAND SURFACE



◆ STORAGE BUILDING
B-23

POTABLE
WELL

CAR WASH

MAIN PACKING BUILDING

COUNTRY STORE

ASPHALT

LEGEND

- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- 500.00 - CONCENTRATION LINES

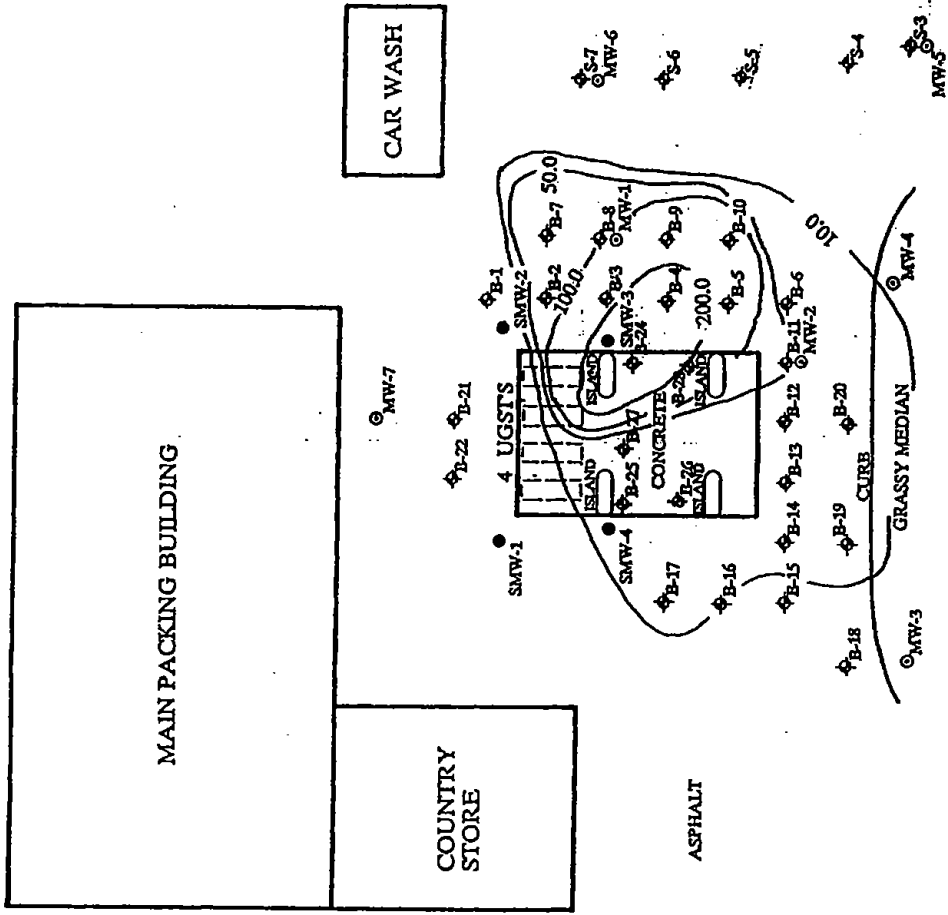


FIGURE 9
SOIL OVA CONCENTRATIONS
AT 10.0' BELOW LAND SURFACE

STATE ROAD 54

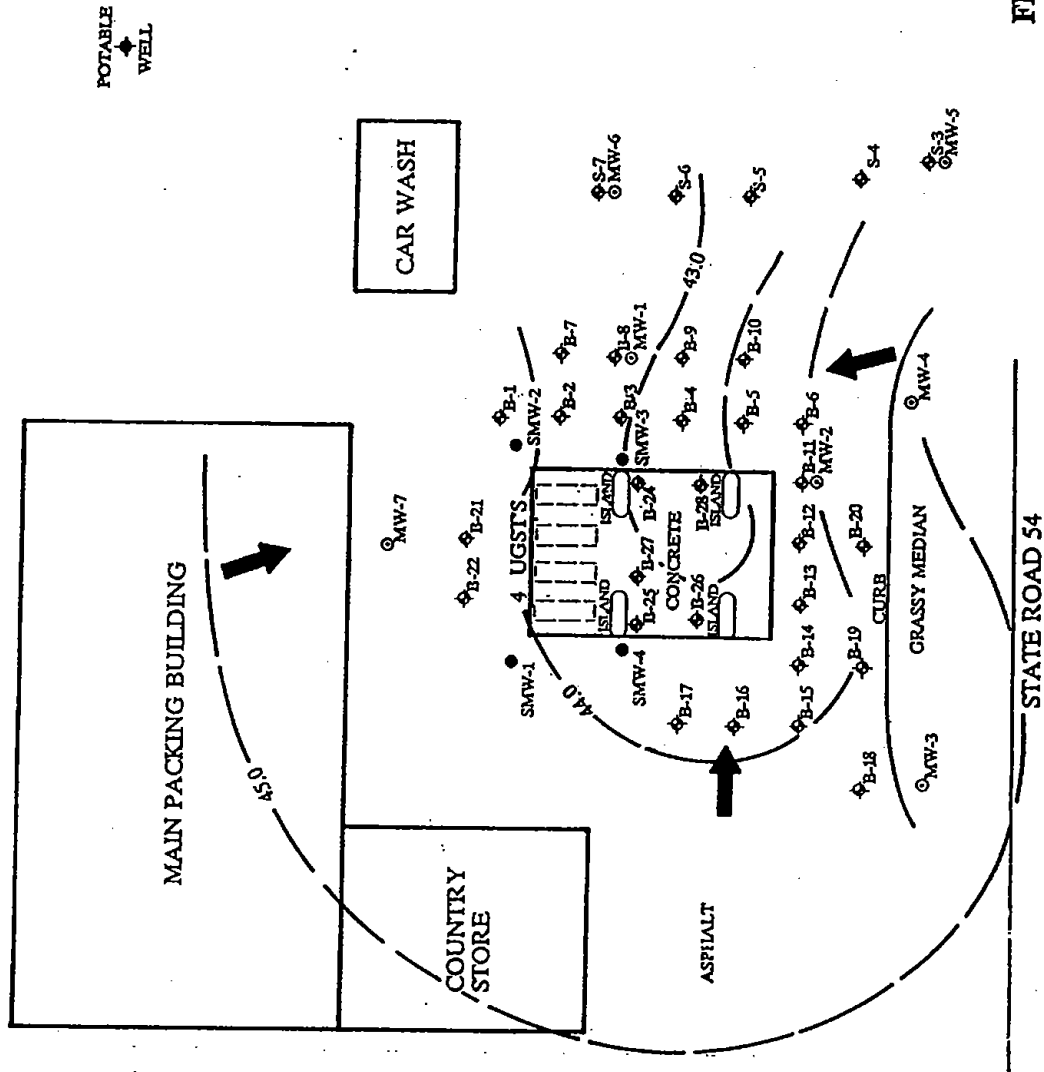


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N
SCALE: 1" = 30'

◆ STORAGE BUILDING
B-23



LEGEND

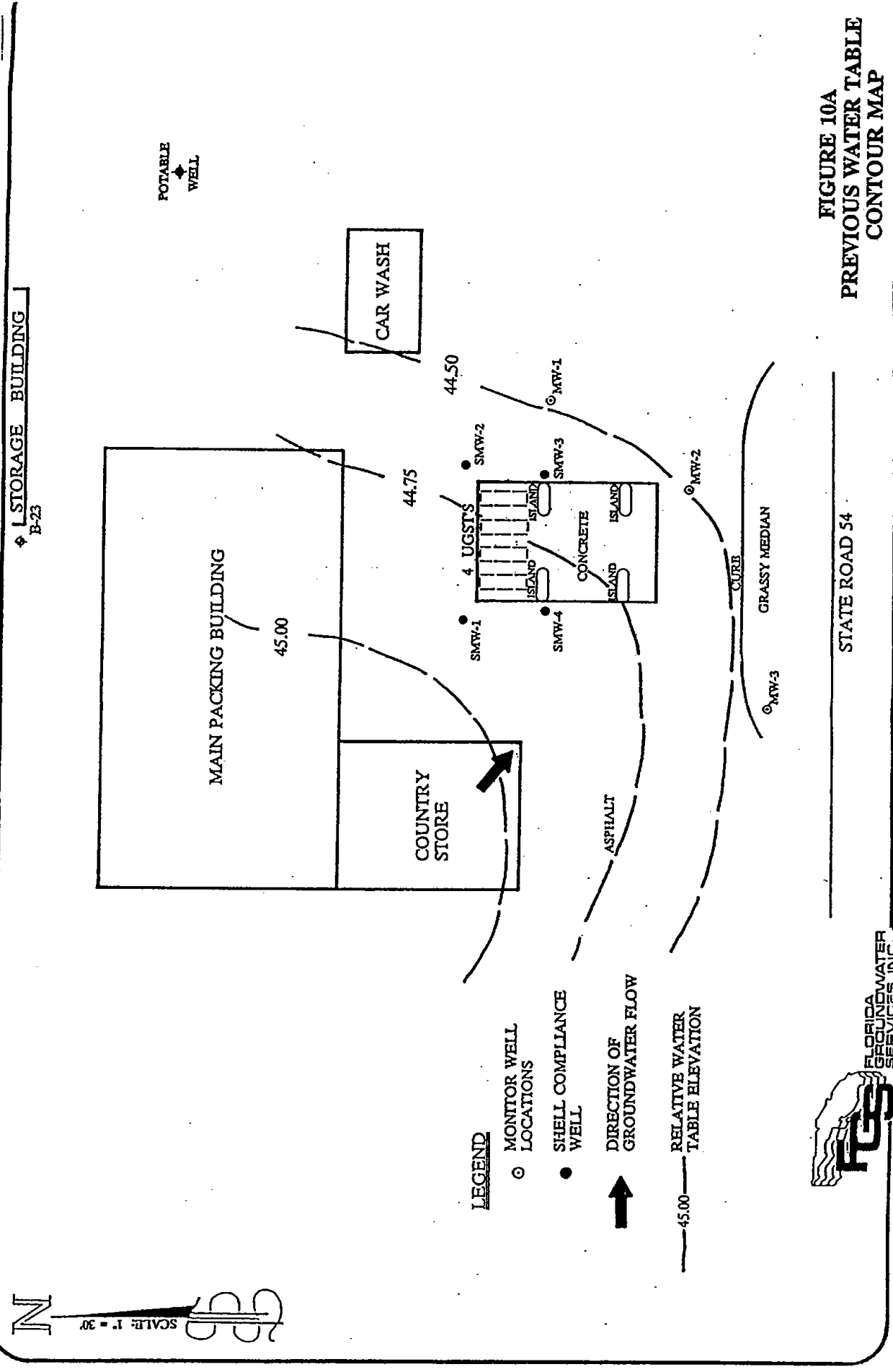
- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- ➔ DIRECTION OF GROUNDWATER FLOW
- 45.0 — WATER TABLE CONTOUR LINES



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**FIGURE 10
WATER TABLE
CONTOUR MAP**



**FIGURE 10A
PREVIOUS WATER TABLE
CONTOUR MAP**

STATE ROAD 54



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N
SCALE: 1" = 30'

◆ STORAGE BUILDING
B-23

MAIN PACKING BUILDING

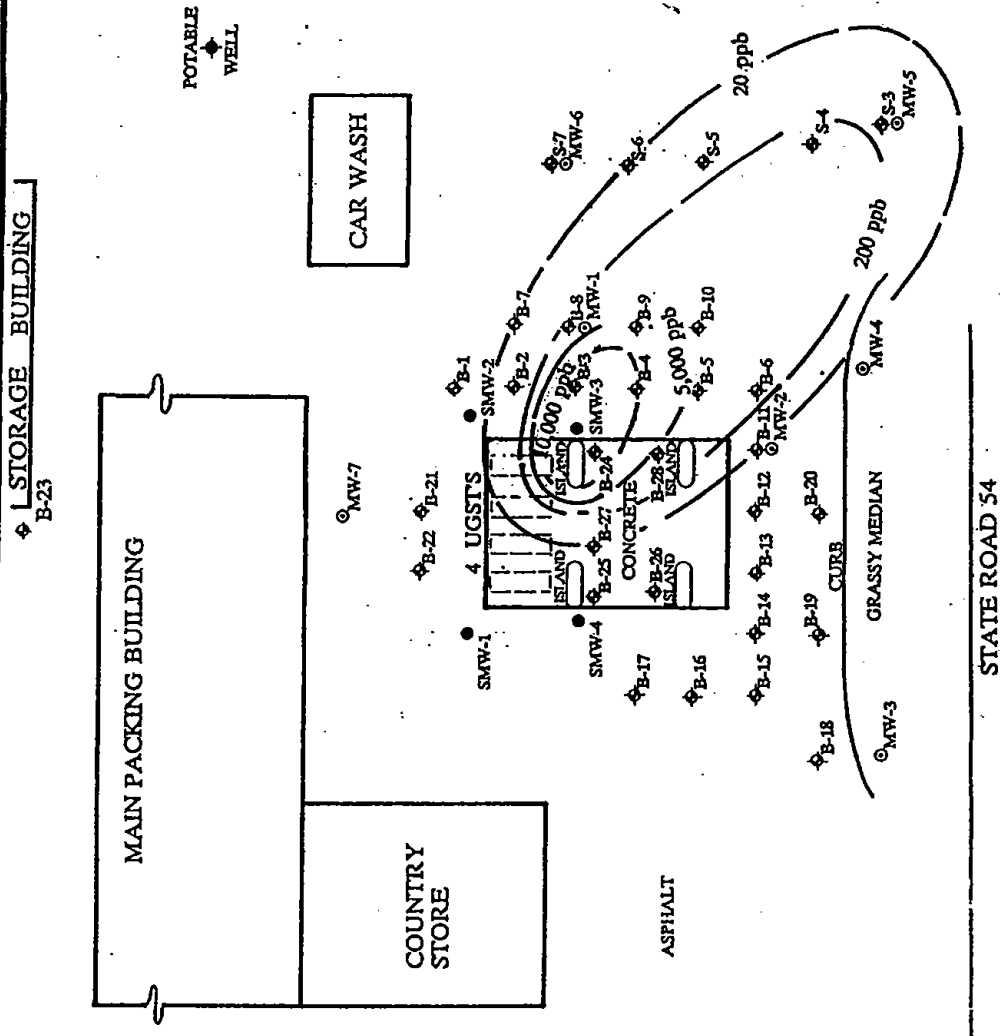
COUNTRY STORE

CAR WASH

POTABLE WELL

LEGEND

- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- 20 ppb BENZENE CONCENTRATION LINES



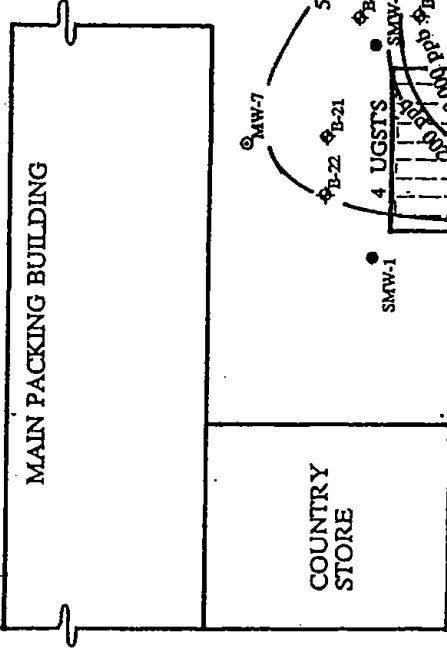
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FIGURE 11
DISSOLVED PHASE CONTAMINANT
PLUME, DEPICTING BENZENE
CONCENTRATIONS

STATE ROAD 54



◆ STORAGE BUILDING
B-23



POTABLE
◆
WELL

CAR WASH

COUNTRY STORE

MAIN PACKING BUILDING

LEGEND

- ◆ SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS
- SHELL COMPLIANCE WELL
- 5 ppb BTEX CONCENTRATION LINES



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FIGURE 12
DISSOLVED PHASE CONTAMINANT
PLUME DEPICTING TOTAL BTEX
CONCENTRATIONS

STATE ROAD 54

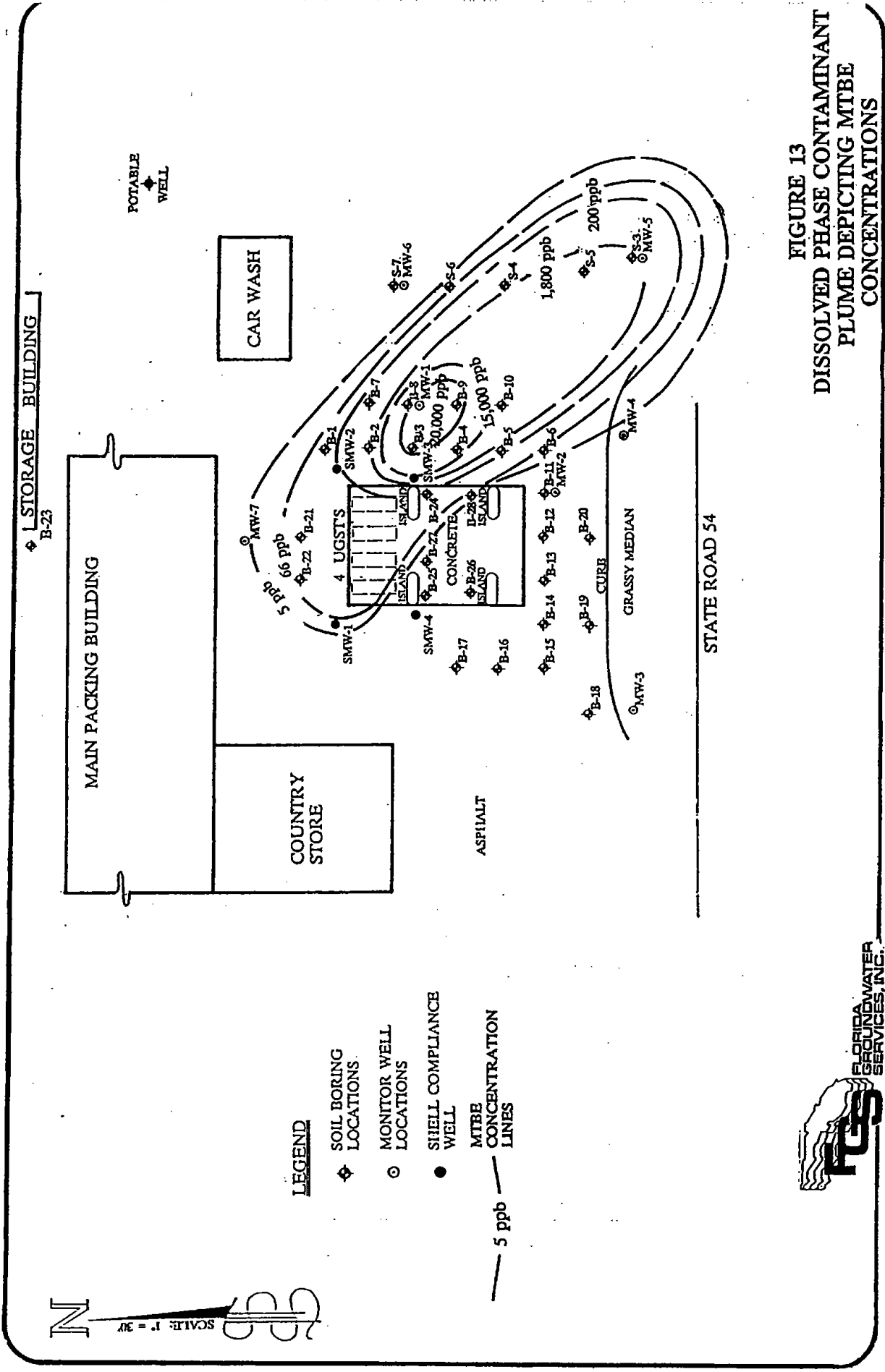
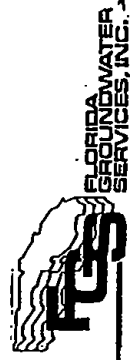


FIGURE 13
DISSOLVED PHASE CONTAMINANT
PLUME DEPICTING MTBE
CONCENTRATIONS



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#3505

Bureau of Waste Cleanup

MAY 8 1992

Engineering Support Section

April 20, 1992

**Remedial Action Plan
Oakley Groves Shell
Wesley Chapel, Florida**

Facility I.D. #: 518515016

**HY-TECH Environmental Services, Inc.
Project # 91-1002**

Submitted by: 

Michael R. Bateman, Project Manager

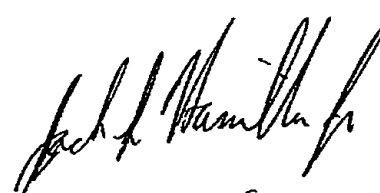
Prepared for: Mr. Tommy Oakley
Oakley Groves, Inc.
101 ABC Road
P.O. Box 4170
Lake Wales, Florida 33859

Prepared by: HY-TECH Environmental Services, Inc.
1106 North Forbes Road
Plant City, Florida 33567

D. E. R.

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SOUTHWEST DISTRICT
TAMPA


5-4-92

construction of the system, such as chemicals involved in rust proofing the exterior of the system, and reactivation of the spent carbon after remediation is complete. The long-term environmental impact is the restoration of the groundwater at the contaminated facility.

2.4 Implementation of Remediation System

No foreseeable problems are predicted for the implementation of the DAS system. Items which were considered include: permitting, site access, and discharge of effluent. Construction was not considered because the DAS-1 system is a portable unit designed for use at a number of facilities. It is not a site specific unit per say, however, it is designed to be adjusted to exceed site specific requirements.

- **Permitting:**

Well drilling permits must be obtained from the Southwest Florida Water Management District (SWFWMD) prior to the installation of the recovery well points. Up to eight well points can be installed on a single permit. No air emissions permit is required for portable units, however, these units must comply with emissions limitations set forth by the Bureau of Air Quality Management. An NPDES permit will be required prior to discharging treated effluent into the nearby storm drainage system: the approved RAP will be considered as the required permit. No consumptive-use permit is required from SWFWMD for recovery wells that are 5 inches in diameters or less.

- **Site Access:**

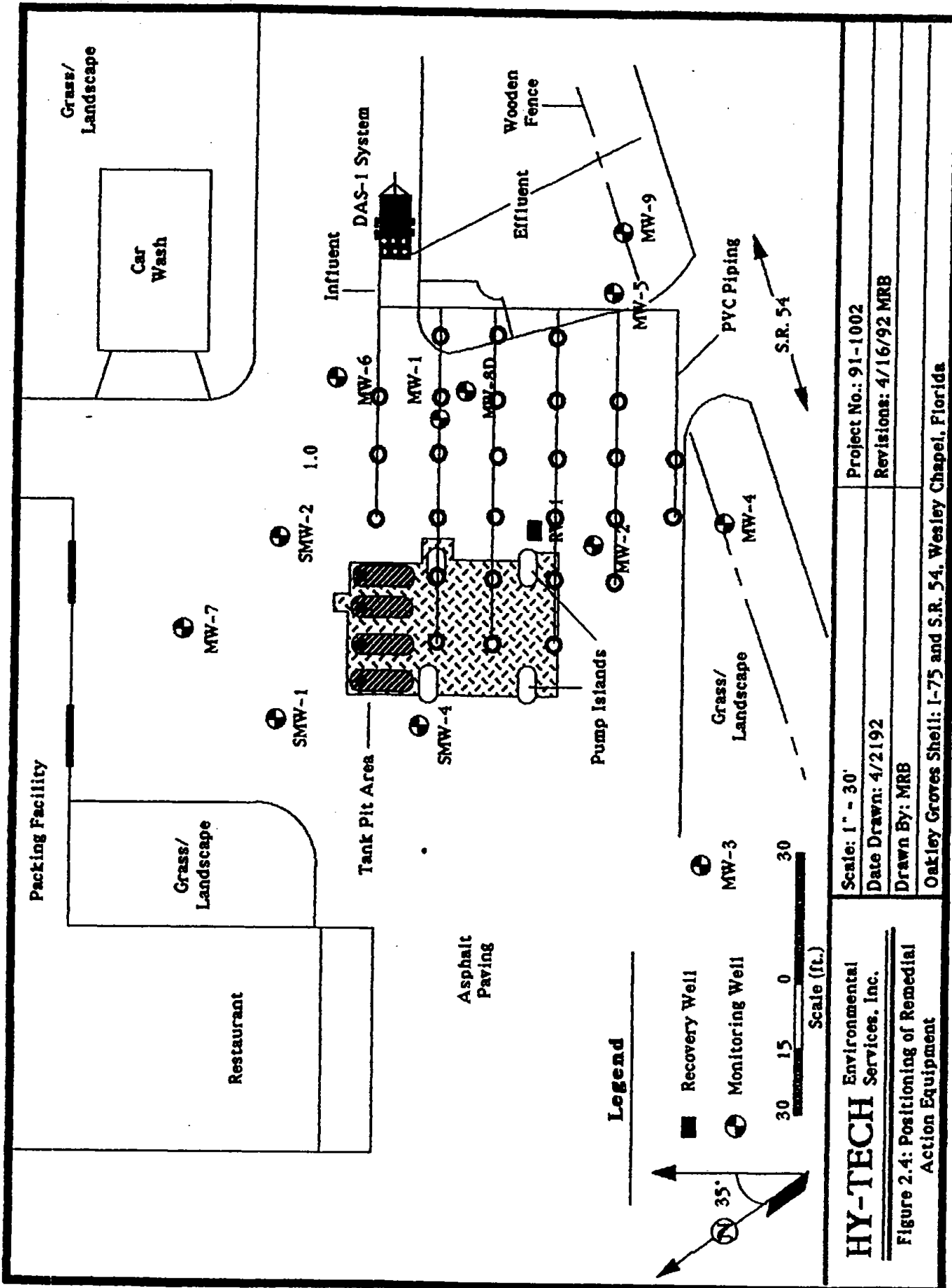
The dimensions of the portable DAS-1 system are approximately 8' x 20'. The facility is currently not conducting business, and none is anticipated at the time remedial actions are to commence. Therefore, it was not necessary to consider a remote area in which to place the DAS-1 system (Figure 2.4).

- **Effluent Discharge:**

After being treated, the effluent will be discharged into a storm drainage system which runs along the southern property boundary of the facility. Approval of this report will serve as the NPDES permit; however, the Environmental Protection Agency in Atlanta, Georgia will be notified in writing prior to, and after remedial action procedures are conducted.

2.5 Operation Requirements

The DAS-1 is a treatment system which utilizes two proven methods to remediate groundwater contaminated by petroleum hydrocarbons. The first method involves



HY-TECH
 Environmental
 Services, Inc.

Figure 2.4: Positioning of Remedial
 Action Equipment

Project No.: 91-1002
 Revisions: 4/16/92 MRB

Oakley Groves Shell: I-75 and S.R. 54, Wesley Chapel, Florida

Site No. 19 – Texaco-Wesley Chapel



Site No. 19 – Texaco–Wesley Chapel



Site No. 19 – Texaco–Wesley Chapel



Site No. 19 – Texaco–Wesley Chapel



Site No. 19 – Texaco–Wesley Chapel

Bureau of Waste Cleanup

MAR 8 1994

Technical Review Section

**CONTAMINATION ASSESSMENT REPORT
GAS KWICK #49
28014 COUNTY ROAD 54
WESLEY CHAPEL, FLORIDA
FDEP FACILITY NO: 519046575
TOWER PROJECT NO: 92069**

Prepared by:

***TOWER ENVIRONMENTAL, INC.
One Urban Centre
4830 West Kennedy Boulevard
Suite 950
Tampa, Florida 33609
(813) 282-8885***

February, 1994

1.0 INTRODUCTION

1.1 OBJECTIVES

A contamination assessment has been completed by Tower Environmental, Inc. (Tower) for the Gas Kwick #49 (GK) site located at 28014 County Road 54, Wesley Chapel, Pasco County, Florida (Figure 1). The objective of this report is to provide site-specific information regarding the geology, hydrogeology, proximal sources of contamination, the vertical and horizontal extent of petroleum contamination, and magnitude of contamination in soil and groundwater. All of Tower's work activities were completed in accordance with Tower's FDEP-approved Comprehensive Quality Assurance Plan (ComQAP, #910301G) and the methods summarized in Appendix A of this report.

1.2 SUMMARY OF WORK COMPLETED

In September of 1993, Briggs Associates International (BAI), Inc. completed an Environmental Site Assessment (ESA) of the "Village Market" property. The Gas Kwick (GK) #49 site is part of the "Village Market" property, which is currently owned by the Florida Palm Harbor Development Corporation. On March 18, 1993, BAI collected groundwater from the four existing compliance wells and analyzed the samples for lead and Method 624, 625, 418.1 parameters. As a result of the contaminant concentrations detected in the four compliance wells, BAI installed and sampled six groundwater monitoring wells and two existing monitoring wells on or near the Gas Kwick #49 site. Groundwater samples collected from these eight wells revealed non detectable concentrations of total Volatile Organic Aromatics (VOAs). Methyl-tert-butyl-ether (MTBE) concentrations of 220 micrograms per liter ($\mu\text{g}/\ell$) and 1.5 $\mu\text{g}/\ell$ were detected in two of the wells south of the UST area. During their investigation, BAI established a surficial groundwater flow to the west beneath the GK site. The ESA report prepared by BAI will be furnished upon request.

and southwest of the UST area, respectively, to evaluate the groundwater quality hydraulically downgradient of the UST area. Monitoring wells MW-2 and MW-6 were installed north (hydraulically sidegradient) of the UST area and west/northwest (hydraulically downgradient) of the dispenser island area to evaluate the groundwater quality in these areas.

On January 19 and 20, 1994, deep monitoring well DW-1 was installed immediately adjacent (hydraulically downgradient) to the western edge of the UST area and was constructed using 20 feet of 4-inch diameter surface casing grouted in place from the surface to 20 feet bls in the confining clay unit. Deep monitoring well DW-1, which was completed with a screened interval between 21 and 26 feet bls, was installed to evaluate the vertical extent of groundwater contamination beneath the site.

Each monitoring well was installed by a licensed professional driller under the direction of Tower personnel. All monitoring wells, except DW-1, were installed using hollow stem augers and were constructed using a ten foot screened section to bracket the water table throughout the hydrologic year. Deep monitoring well DW-1 was installed using mud rotary drilling techniques. Monitoring well completion logs are included in Appendix D.

4.3 GROUNDWATER QUALITY ASSESSMENT

On July 30, 1993, groundwater samples were collected from compliance wells CW-1, CW-2, and CW-3 and analyzed for the Gasoline Analytical Group (GAG) parameters. On August 8, 1993, groundwater samples were collected from compliance well CW-4 and analyzed for the GAG parameters. On February 1 and 2, 1994, groundwater samples were collected from monitoring wells PZ-4, PZ-5, PZ-6, PZ-7, MW-1 through MW-6, and DW-1 and analyzed for the GAG parameters. The groundwater sampling was performed using the sampling methods described in Appendix A. A summary of the analytical data is presented in Table 5 and discussed below.

The three groundwater sampling events described above revealed benzene concentrations exceeding the FDEP target level (TL) of 1 microgram per liter ($\mu\text{g}/\ell$) in groundwater

samples collected from CW-1 (318 $\mu\text{g}/\ell$), CW-2 (482 $\mu\text{g}/\ell$), CW-3 (816 $\mu\text{g}/\ell$), CW-4 (6,895 $\mu\text{g}/\ell$), DW-1 (120 $\mu\text{g}/\ell$), and PZ-5 (24 $\mu\text{g}/\ell$) (Figure 13).

Total VOA concentrations exceeding the FDEP TL of 50 $\mu\text{g}/\ell$ were detected in the groundwater samples collected from CW-1 (367 $\mu\text{g}/\ell$), CW-2 (506 $\mu\text{g}/\ell$), CW-3 (1,727 $\mu\text{g}/\ell$), CW-4 (9,304 $\mu\text{g}/\ell$), and DW-1 (120 $\mu\text{g}/\ell$) (Figure 14).

MTBE concentrations exceeding the FDEP TL of 50 $\mu\text{g}/\ell$ were detected in the groundwater samples collected from CW-1 (63 $\mu\text{g}/\ell$), CW-3 (163 $\mu\text{g}/\ell$), CW-4 (502 $\mu\text{g}/\ell$), DW-1 (99 $\mu\text{g}/\ell$), and PZ-5 (240 $\mu\text{g}/\ell$) (Figure 15).

Ethylene dibromide (EDB) concentrations were not detected above its method detection limit (MDL) in any groundwater samples analyzed during this investigation.

Total lead concentrations exceeding the FDEP TL of 50 $\mu\text{g}/\ell$ were detected in the groundwater samples collected from CW-2 (167 $\mu\text{g}/\ell$) and MW-1 (84 $\mu\text{g}/\ell$).

During Tower's investigation, Bromodichloromethane was detected in the groundwater samples collected from MW-1 (3 $\mu\text{g}/\ell$), MW-4 (14 $\mu\text{g}/\ell$), and MW-7 (3 $\mu\text{g}/\ell$). In addition, Chloroform (5 $\mu\text{g}/\ell$) was detected at MW-1 and 1,1,1-Trichloroethane (1 $\mu\text{g}/\ell$) was detected at MW-7. The source of these constituents was not determined during this investigation.

Based on the previous groundwater analytical results of the groundwater samples collected at DW-1, a groundwater sample was collected on February 16, 1994 from deep monitoring well DW-1 and analyzed for the EPA Method 602 parameters only.

The groundwater samples collected on February 16, 1994 from DW-1 revealed benzene and MTBE concentrations of 110 $\mu\text{g}/\ell$ and 230 $\mu\text{g}/\ell$, respectively. These results confirm the contaminant concentrations detected at DW-1 during the February 1 and 2, 1994 sampling event.

Table 5 presents a summary of groundwater analytical results for all wells installed and/or

sampled as part of the GK contamination assessment and Appendix G contains the laboratory analytical results and chain of custody documentation. The extent of groundwater contamination, based on benzene, total VOA, and MTBE concentrations are presented as Figures 13, 14, and 15, respectively.

As depicted on Figures 13, 14, and 15, the petroleum impacted groundwater plume at the GK site is located beneath and southwest of the existing UST area and appears to have migrated southeast approximately 30 to 40 feet. In addition, minor contaminant concentrations were detected at MW-2, but the source of this contamination could not be determined during this investigation. Vertically, it appears that the leading edge of the contamination plume is located approximately 25 feet bls as evidenced by the concentrations of benzene and MTBE only detected at this well.

The contaminated groundwater detected beneath the site may be the result of leaking product piping and/or leaking USTs beneath the site, however, based on the "tightness" tests conducted at this site, the source is likely the result of some other type of spillage.

On February 2, 1994, compliance well CW-4 was sampled and analyzed for various RAP parameters to assist in the design of an anticipated remediation system. Table 6 summarizes the results of this sampling event.

4.4 FREE PRODUCT

Free product was not observed in any of the compliance or monitoring wells accessed during this investigation. If observed, the free product will be collected on a monthly basis and will be handled according to the free product recovery method summarized in Appendix A.

5.0 DISCUSSION OF FINDINGS

A portion of the GK site is underlain by excessively contaminated soil. This volume is estimated to be approximately 400 yds³. The excessively contaminated soil is located north and east of the existing UST area.

Laboratory analyses of groundwater samples collected from 5 on-site wells and 1 off-site well revealed levels of dissolved hydrocarbon constituents which exceed the state rehabilitation levels. The groundwater contaminant plumes, as defined by benzene, total VOAs, and MTBE have been horizontally delineated and, based on the analytical results of the groundwater samples collected from the deep monitoring well DW-1, the vertical extent of groundwater contamination beneath the GK site has also been defined.

The source of the soil and groundwater contamination present beneath the GK site was not determined during this investigation, but does not appear to be the result of the existing product dispensing system based on the previous "tightness" tests conducted at the site.

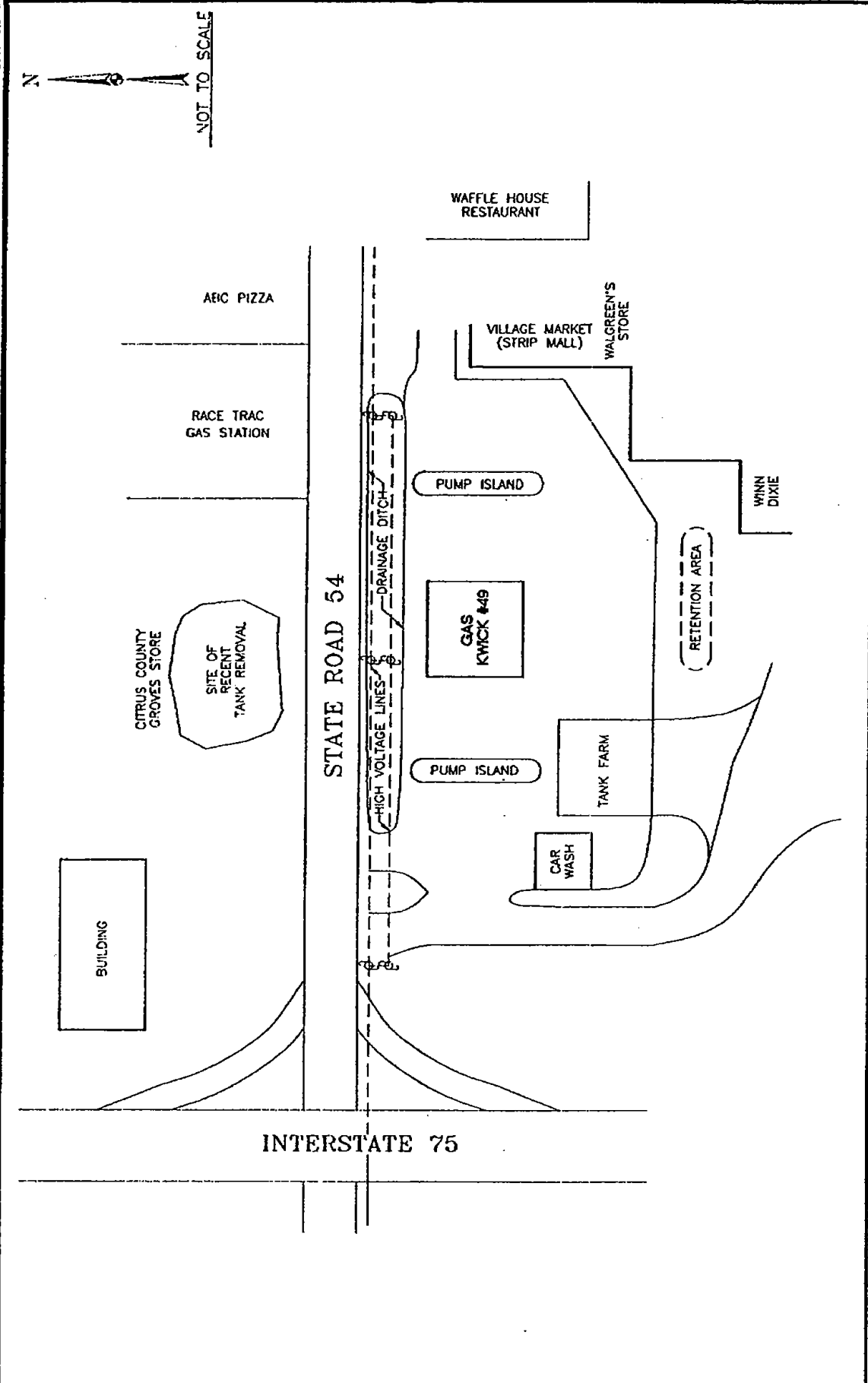
6.0 SUMMARY AND RECOMMENDATIONS

The following items summarize the results of this assessment:

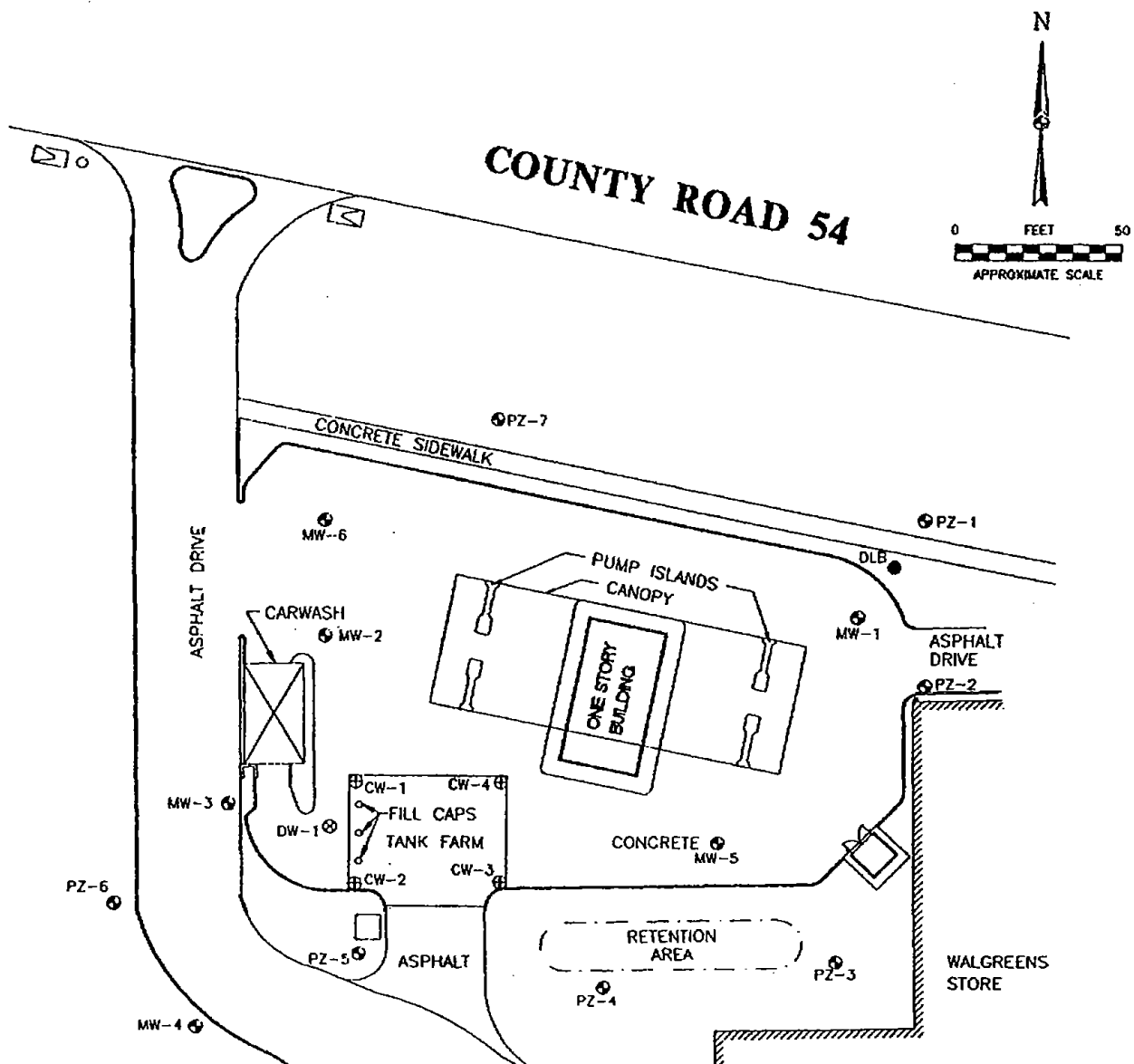
- A. The shallow surficial geology beneath the site consists of brown, fine-grained sand with sandy clay and clay lenses to a depth of approximately 15 feet bls. Beneath this brown sand, a dense, blue/green sandy clay unit was encountered to approximately 24 feet bls during the installation of DW-1 and the excavation of the DLB. Beneath this sandy clay unit, a greenish-grey mottled clay unit was encountered to 30 feet bls (the total depth of the DLB). The dense clay unit encountered beneath the GK site at 15 feet bls appears to be continuous and confining;
- B. The groundwater beneath the GK site appears to be flowing to the southwest beneath the UST area at a rate of approximately 29.6 ft/year. The average horizontal hydraulic conductivity for the surficial water table between approximately 2 and 12 feet bls was calculated to be 4.39 ft/day. The horizontal conductivity of the surficial aquifer at a depth interval of 21 to 26 feet bls was calculated to be 9.21 ft/day;
- C. The average hydraulic gradient of the surficial water table was 0.0037 ft/ft;
- D. Depths to the water table across this site ranged from 2.24 (PZ-3) to 11.80 (DW-1) feet bls during this study. A saturated thickness of approximately 12 feet was estimated for surficial water table based on presence of a confining clay unit at 15 feet beneath the GK site;
- E. Three public potable supply wells were identified within a 0.5-mile radius of the site. Two private irrigation wells were identified within a 0.25-mile radius of the site;
- F. Although the source of the groundwater and soil contamination present beneath the GK site could not be determined during this investigation, it does not appear to be the result of the existing product dispensing system based on the previous "tightness" tests conducted at the site;
- G. Free product was not detected at any compliance or monitoring well during this assessment;
- H. The area of excessively contaminated soil represents a volume of approximately 400 yds³;

- I. The vertical extent of the dissolved petroleum groundwater contamination beneath the GK site has been defined based on the analytical results of groundwater samples collected at DW-1;
- J. The surficial aquifer is classified as G-II.

Based on the hydrogeological and chemical data presented in this CAR, preparation of a "Remedial Action Plan" is recommended for the GK site.



<p>TOWER ENVIRONMENTAL, INC.</p>	<p>FIGURE 2 SITE VICINITY MAP GAS KWICK #49 • WESLEY CHAPEL, FLORIDA CONTAMINATION ASSESSMENT REPORT</p>		<p>APPROVED BY: <i>MEE</i></p>	<p>REVIEWED BY: <i>BAR</i></p>
	<p>PROJECT NO: 92069.1200</p>		<p>DRAFTED BY: TROY TRAYNHAM</p>	



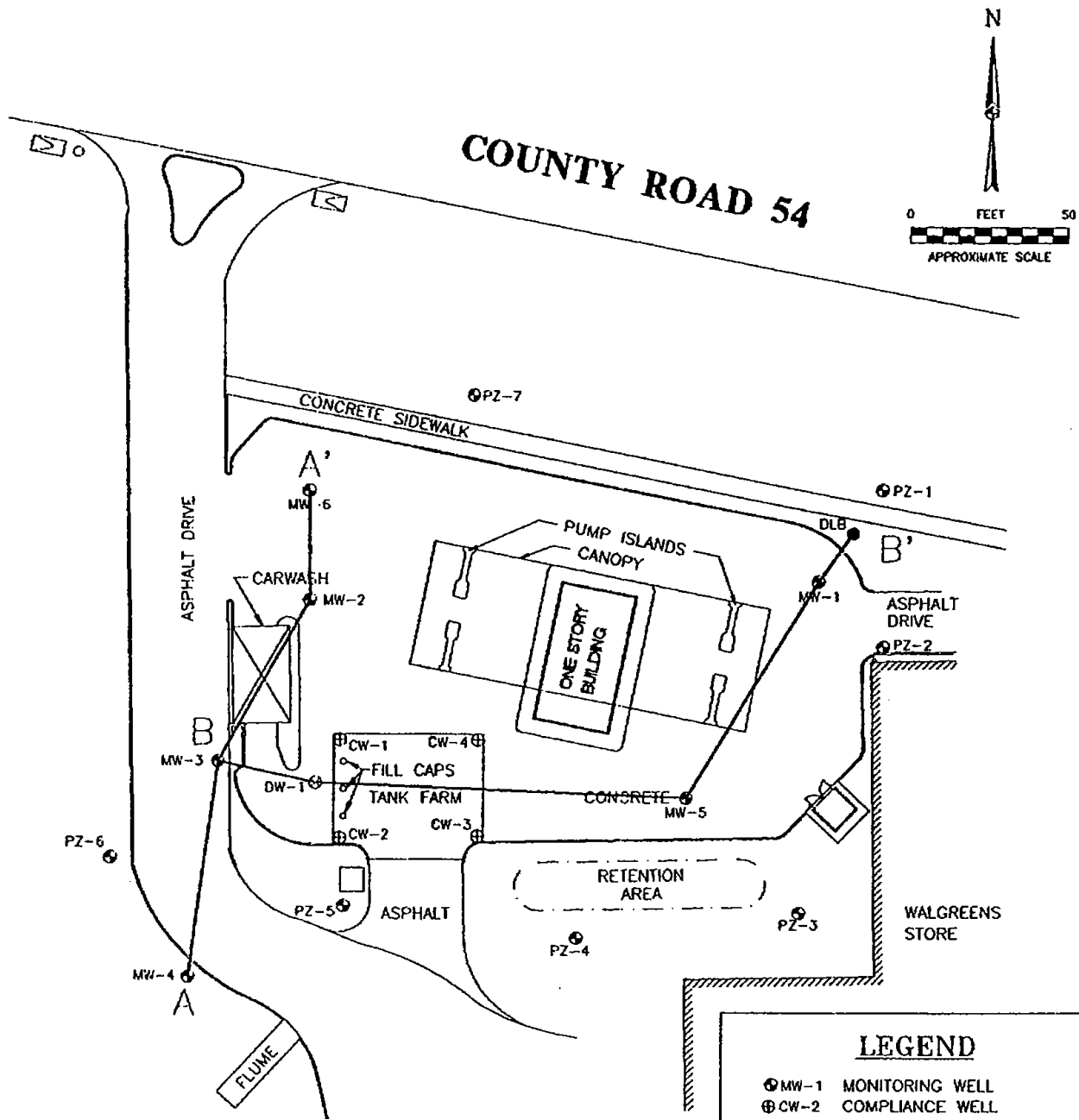
LEGEND	
● MW-1	MONITORING WELL
⊕ CW-2	COMPLIANCE WELL
⊙ PZ-1	EXISTING MONITORING WELL
⊗ DW-1	DEEP MONITORING WELL
● DLB	DEEP LITHOLOGY BORING

FIGURE 3
SITE MAP

GAS KWICK #48 * WESLEY CHAPEL, FLORIDA
CONTAMINATION ASSESSMENT REPORT

APPROVED BY: <i>MES</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92089.1200	DRAFTED BY: MIKE SERRANO

TOWER
ENVIRONMENTAL, INC.

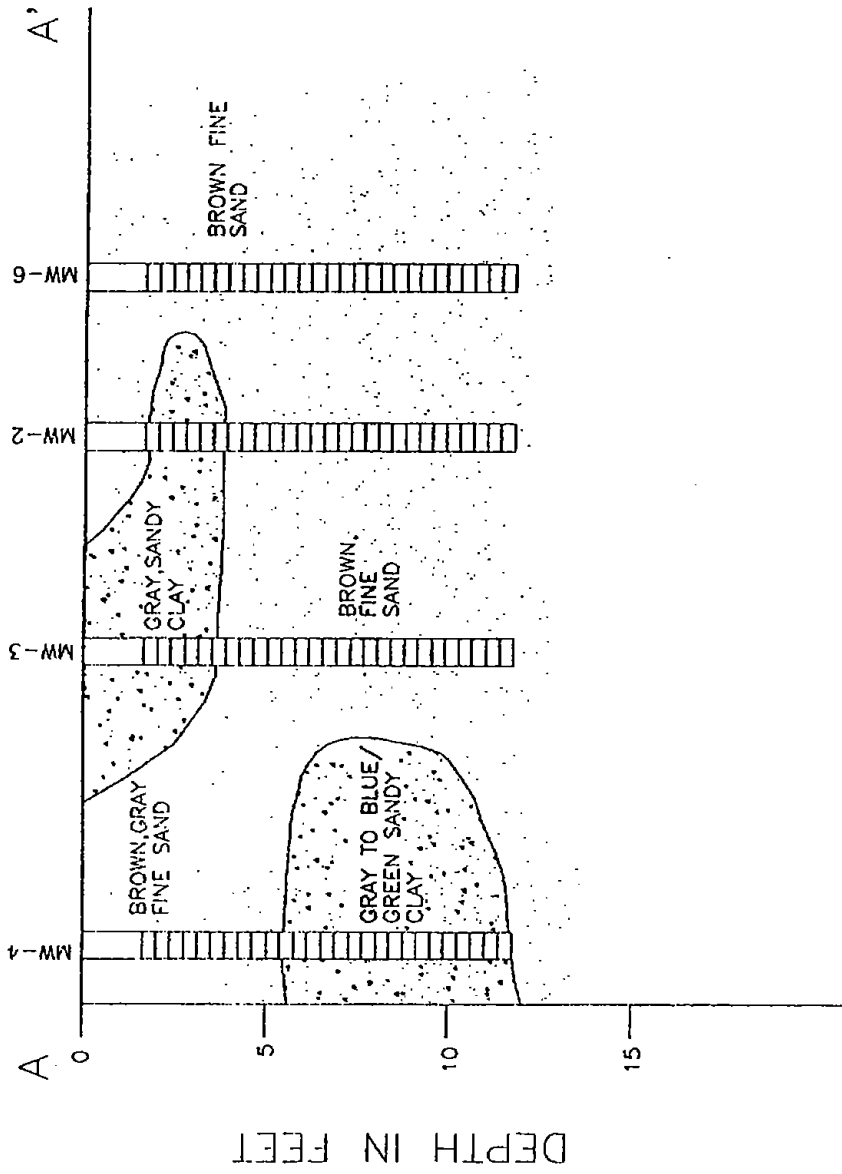


LEGEND	
⊙ MW-1	MONITORING WELL
⊕ CW-2	COMPLIANCE WELL
⊙ PZ-1	EXISTING MONITORING WELL
⊙ DW-1	DEEP MONITORING WELL
● DLB	DEEP LITHOLOGY BORING

FIGURE 6
GEOLOGIC CROSS-SECTION LOCATION MAP
 GAS KWICK #49 • WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT

APPROVED BY: <i>MSE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92069.1200	DRAFTED BY: MIKE SERRANO

TOWER ENVIRONMENTAL, INC.

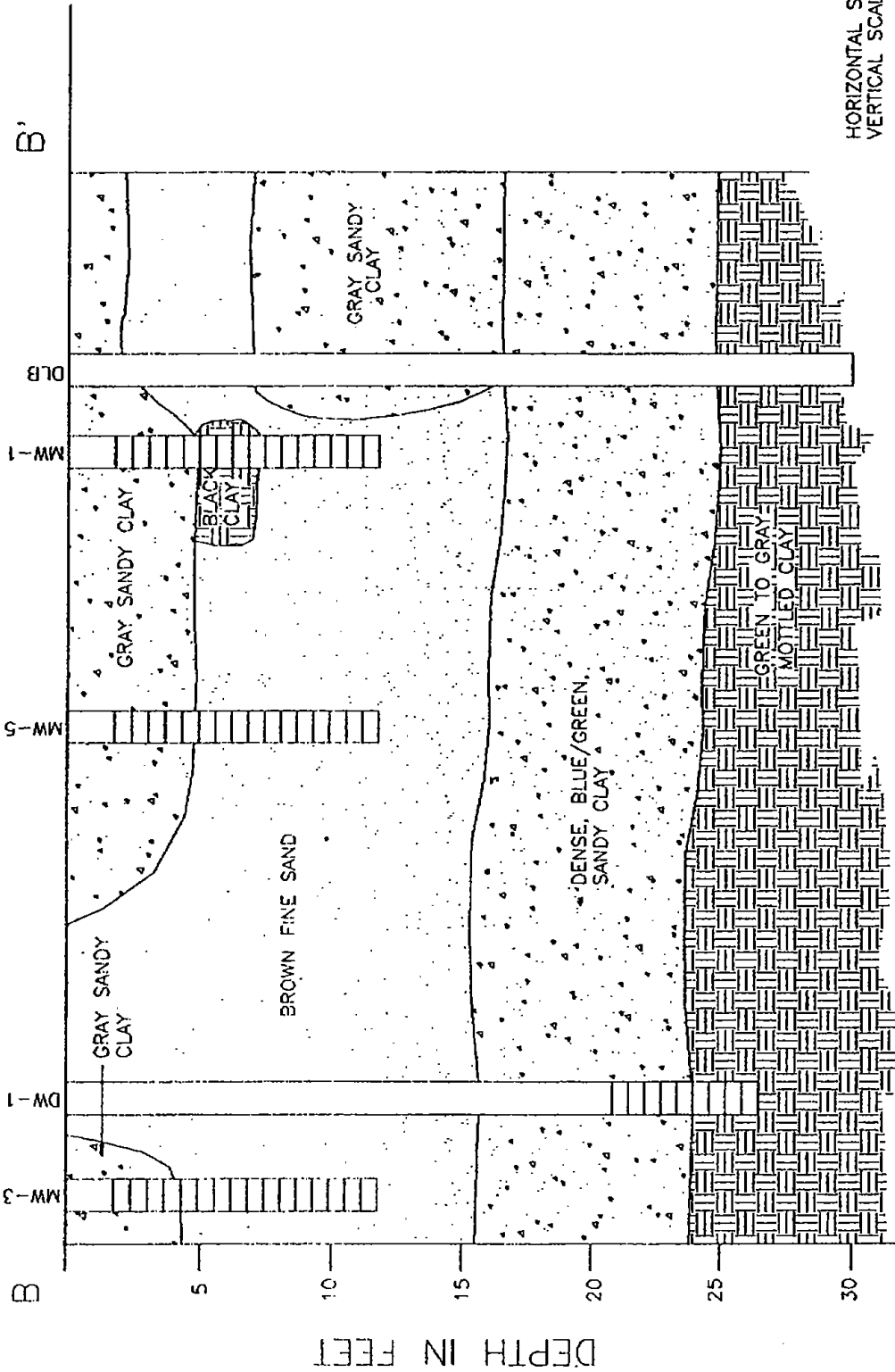


HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=5'

APPROVED BY: <i>MCE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92069.1200	DRAFTED BY: SEAN WILLIAMS

FIGURE 7
 GEOLOGIC CROSS-SECTION A-A'
 GAS KWICK #49 * WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT

TOWER ENVIRONMENTAL, INC.



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 6.25'



TOWER ENVIRONMENTAL, INC.

FIGURE 8
GEOLOGIC CROSS-SECTION B-B'
GAS KWICK #49 * WESLEY CHAPEL, FLORIDA
CONTAMINATION ASSESSMENT REPORT

APPROVED BY: *ME*

REVIEWED BY: *BAR*

PROJECT NO: 92069.1200

DRAFTED BY: SEAN WILLIAMS

DRAWING 1-25-94 M.S. REV.1 00-00-00 REV.2 00-00-00 REV.3 00-00-00
 BASE, CW, MW, PZ, PZ-1, PZ-2, PZ-3, PZ-4, PZ-5, PZ-6, PZ-7
 P2069DAR.DWG

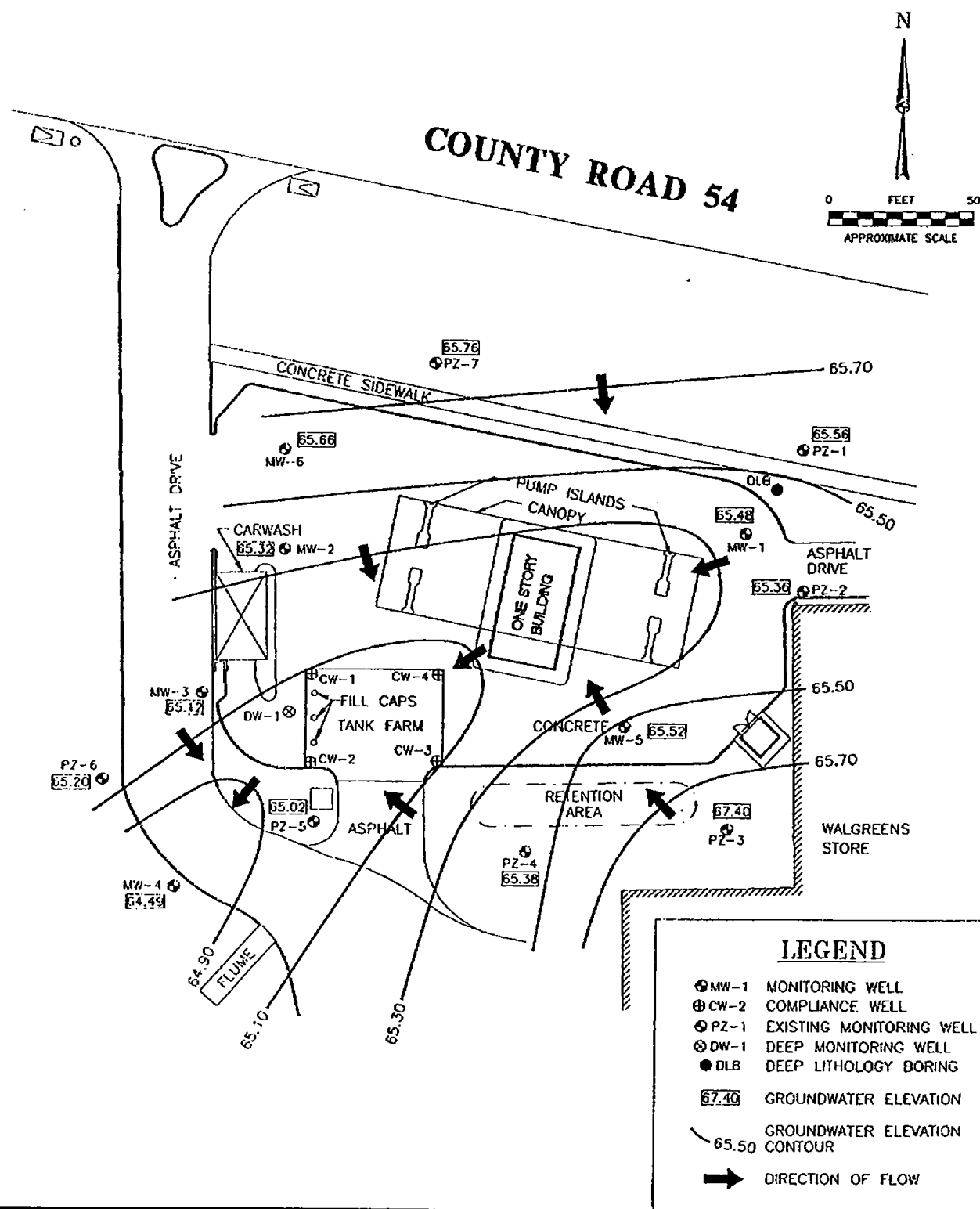


FIGURE 9
GROUNDWATER ELEVATION CONTOUR MAP
FEBRUARY 1, 1994
GAS KWICK #49 • WESLEY CHAPEL, FLORIDA
CONTAMINATION ASSESSMENT REPORT

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>DAR</i>
PROJECT NO: 92069.1200	DRAFTED BY: MIKE SERRANO

TOWER ENVIRONMENTAL, INC.

DRAWING: 1-28-94 M.S. REV.1 00-00-00 REV.2 00-00-00 REV.3 00-00-00
 BASE: CW, PZ, 10, MW, PZ, PZ OFF 92089.1200
 92089.1200

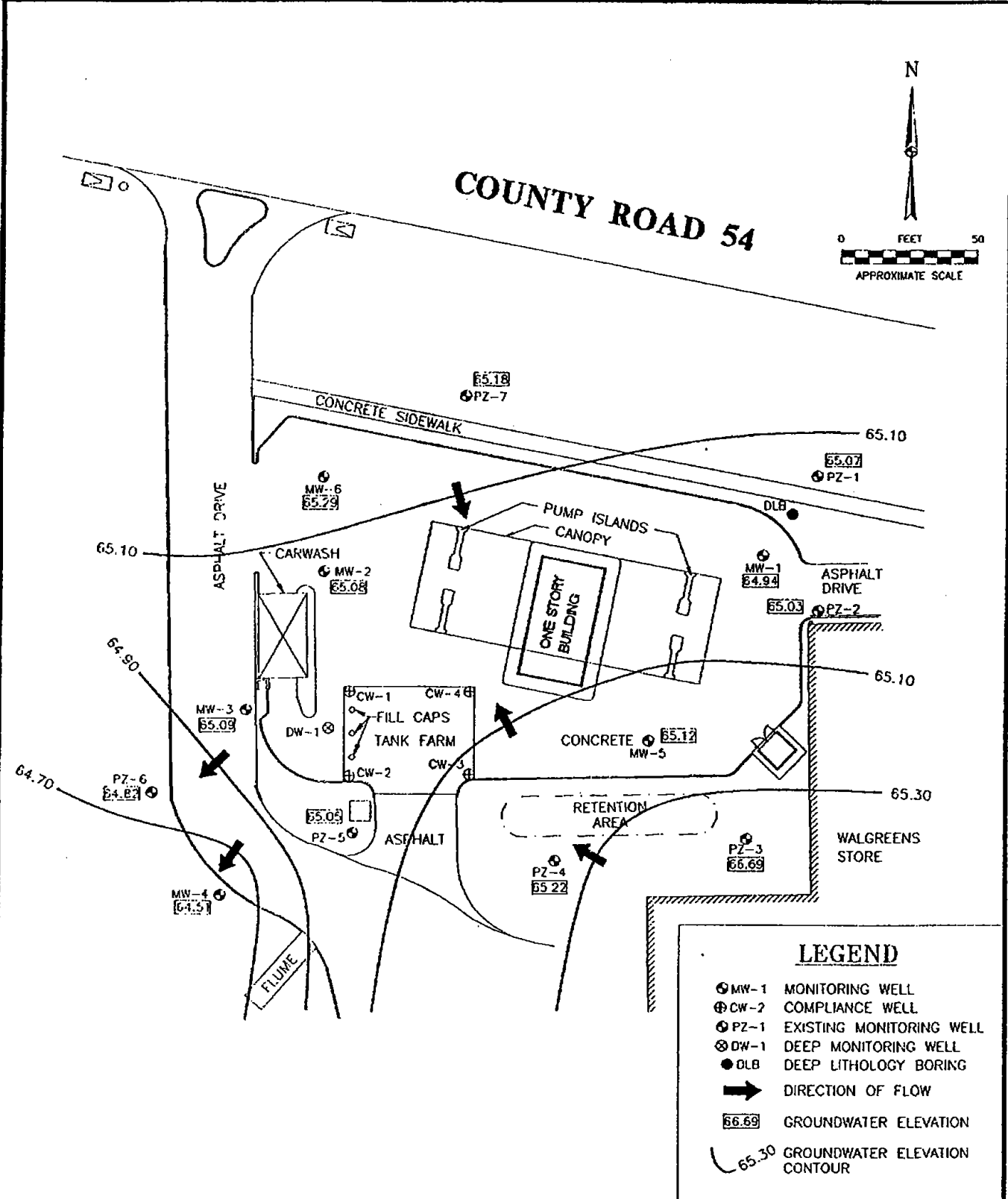
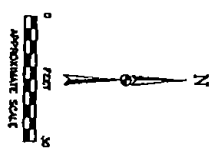
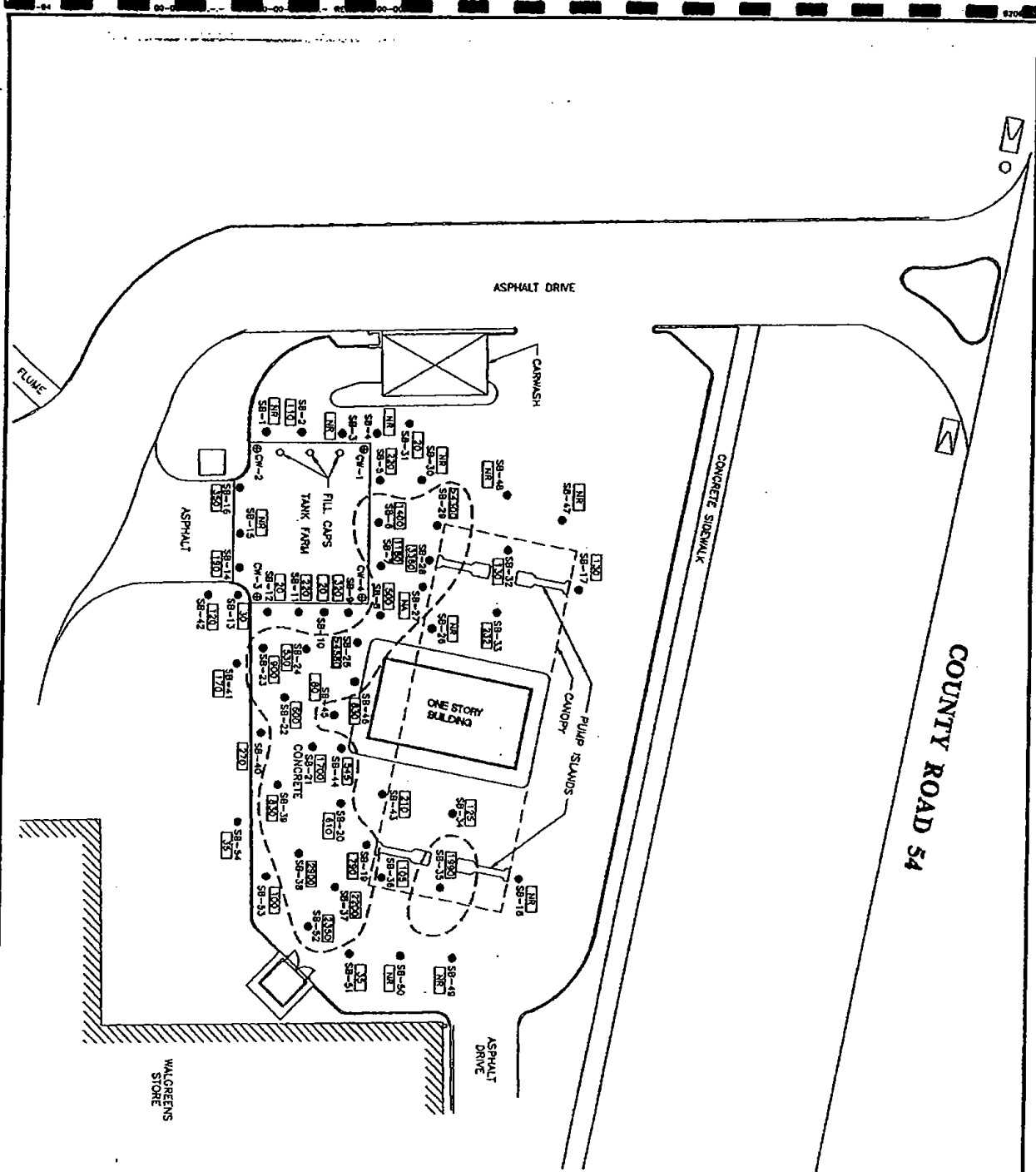


FIGURE 10
GROUNDWATER ELEVATION CONTOUR MAP
FEBRUARY 10, 1994
GAS KWICK #49 * WESLEY CHAPEL, FLORIDA
CONTAMINATION ASSESSMENT REPORT

APPROVED BY: <i>MSE</i>	REVIEWED BY: <i>DAP</i>
PROJECT NO: 92089.1200	DRAFTED BY: MIKE SERRANO

TOWER
 ENVIRONMENTAL, INC.



NOTE:
ALL NEGATIVE NET GVA READINGS
ARE OMITTED AS NR ON THIS MAP

LEGEND

- CW-2 COMPLIANCE WELL
- SB-34 SOIL BORING
- SB-34 GVA CONCENTRATION IN ppm
- NR NO RESPONSE
- ND GVA DATA NOT AVAILABLE
- GVA CONCENTRATION CONTOUR (500ppm)

FIGURE 11
EXCESSIVELY CONTAMINATED SOIL MAP - 2ft. B.L.S.
 GAS KWIK #49 • WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 02069.1200	DRAFTED BY: MIKE SERRANO

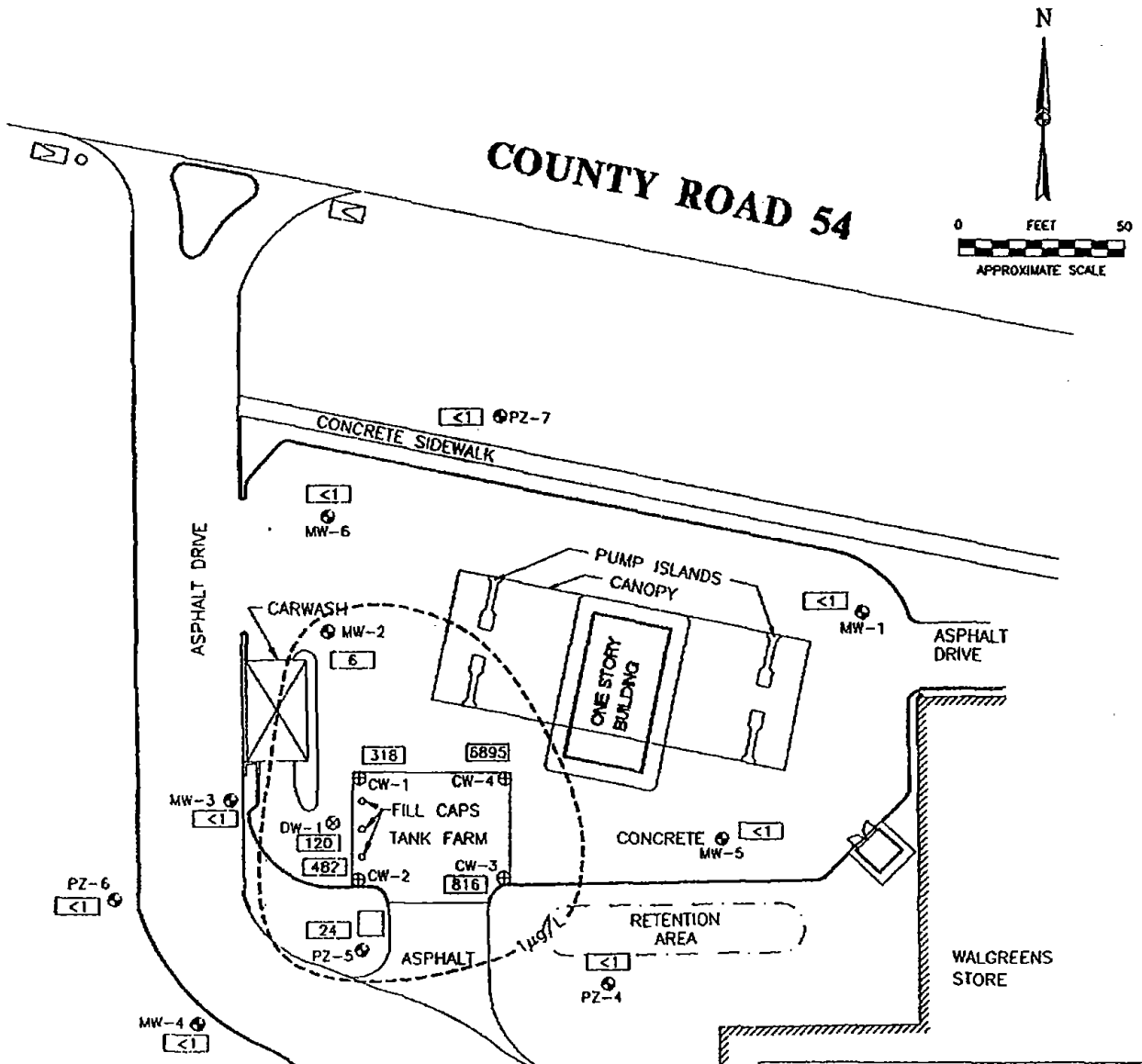
TOWER ENVIRONMENTAL, INC.

92069CAR.DWG

BASE: CW-F0613.MW.PZ

REV.1 00-00-00 REV.2 00-00-00 REV.3 00-00-00

DRAWING 1-28-94 M.S.



LEGEND

- ⊕ MW-1 MONITORING WELL
- ⊕ CW-2 COMPLIANCE WELL
- ⊕ PZ-1 EXISTING MONITORING WELL
- ⊗ DW-1 DEEP MONITORING WELL
- DLB DEEP LITHOLOGY BORING
- [318] BENZENE CONCENTRATION MEASURED IN $\mu\text{g/L}$
- - - BENZENE CONCENTRATION CONTOUR

NOTE: ALL GROUNDWATER SAMPLES WERE COLLECTED ON FEB. 1&2, 1994.

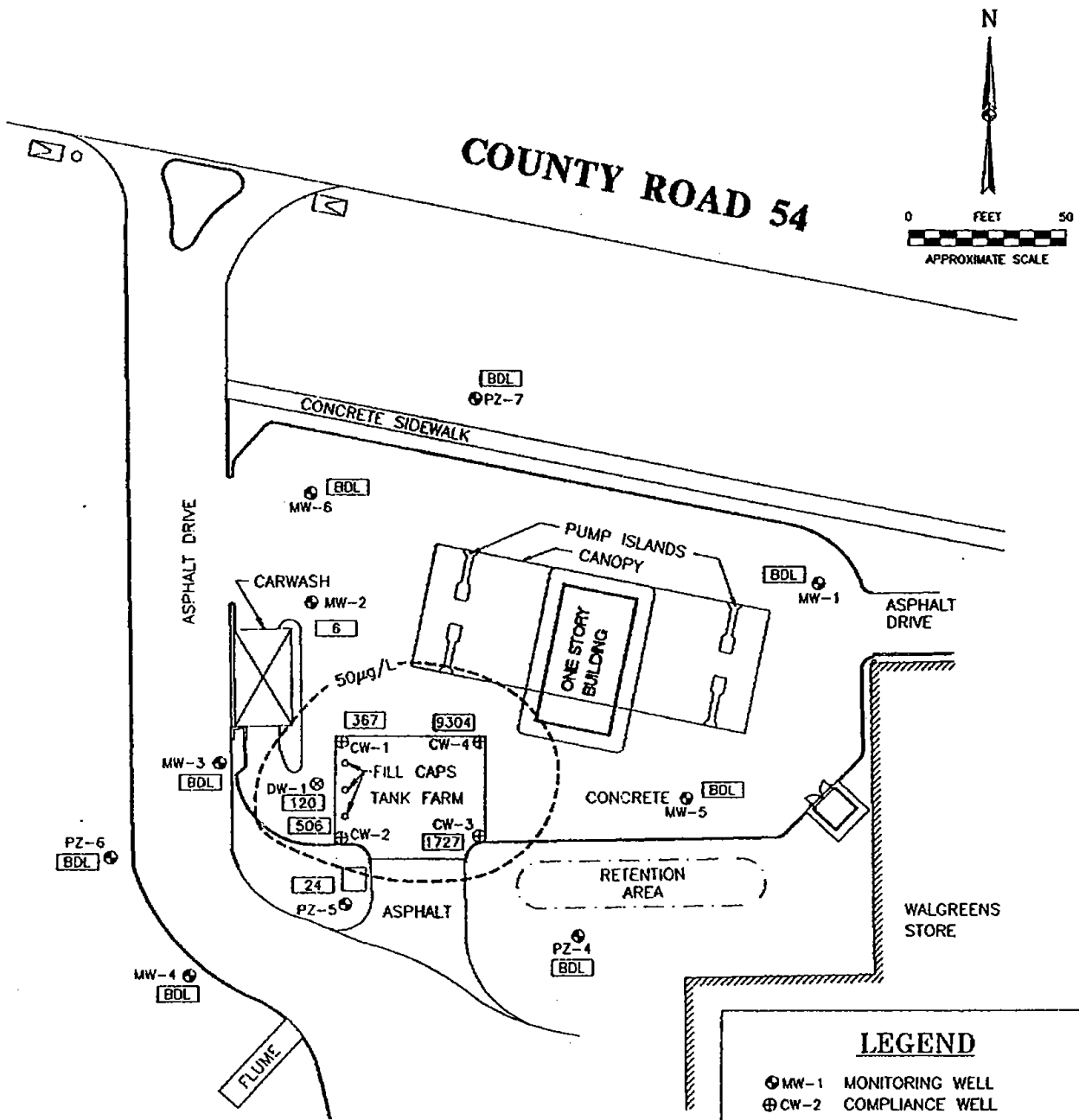
TOWER ENVIRONMENTAL, INC.

FIGURE 13
BENZENE CONCENTRATION CONTOUR MAP
 GAS KWICK #49 • WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT

APPROVED BY:
MEE
 PROJECT NO:
 92069.1200

REVIEWED BY:
BAR
 DRAFTED BY:
 MIKE SERRANO

DRAWING 1-25-94 M.S. REV.1 00-00-00 REV.2 00-00-00 REV.3 00-00-00
 BASE: CW FIG 14, MW PZ
 92099CAR.DWG



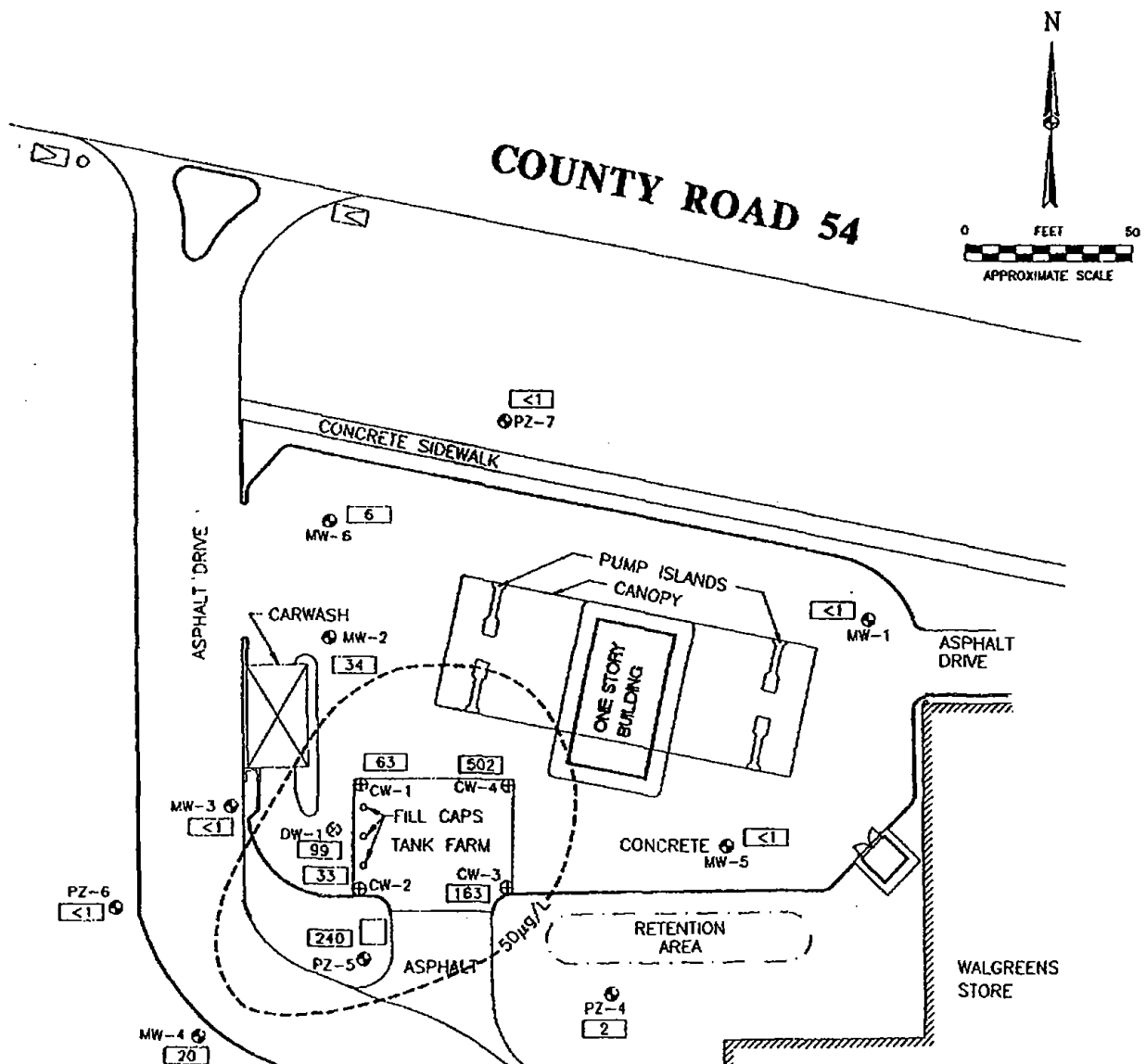
LEGEND	
⊕ MW-1	MONITORING WELL
⊕ CW-2	COMPLIANCE WELL
⊕ PZ-1	EXISTING MONITORING WELL
⊕ DW-1	DEEP MONITORING WELL
● DLB	DEEP LITHOLOGY BORING
[318]	TOTAL VOA CONCENTRATION MEASURED IN µg/L
- - -	TOTAL VOA CONCENTRATION CONTOUR
[BDL]	BELOW DETECTABLE LIMITS

NOTE: ALL GROUNDWATER SAMPLES WERE COLLECTED ON FEB. 1&2, 1994.

FIGURE 14
TOTAL VOA CONCENTRATION CONTOUR MAP
GAS KWICK #49 • WESLEY CHAPEL, FLORIDA
CONTAMINATION ASSESSMENT REPORT

TOWER ENVIRONMENTAL, INC.

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>DAR</i>
PROJECT NO: 92089.1200	DRAFTED BY: MIKE SERRANO



LEGEND

- ⊙ MW-1 MONITORING WELL
- ⊕ CW-2 COMPLIANCE WELL
- ⊙ PZ-1 EXISTING MONITORING WELL
- ⊗ DW-1 DEEP MONITORING WELL
- DLB DEEP LITHOLOGY BORING
- [163] MTBE CONCENTRATION MEASURED IN µg/L
- - - - MTBE CONCENTRATION CONTOUR

NOTE: ALL GROUNDWATER SAMPLES WERE COLLECTED ON FEB. 1&2, 1994.

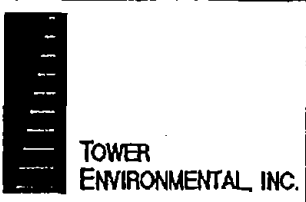


FIGURE 15
MTBE CONCENTRATION CONTOUR MAP
 GAS KWICK #49 • WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92089.1200	DRAFTED BY: MIKE SERRANO

Bureau of Waste Cleanup

JUL 25 1994

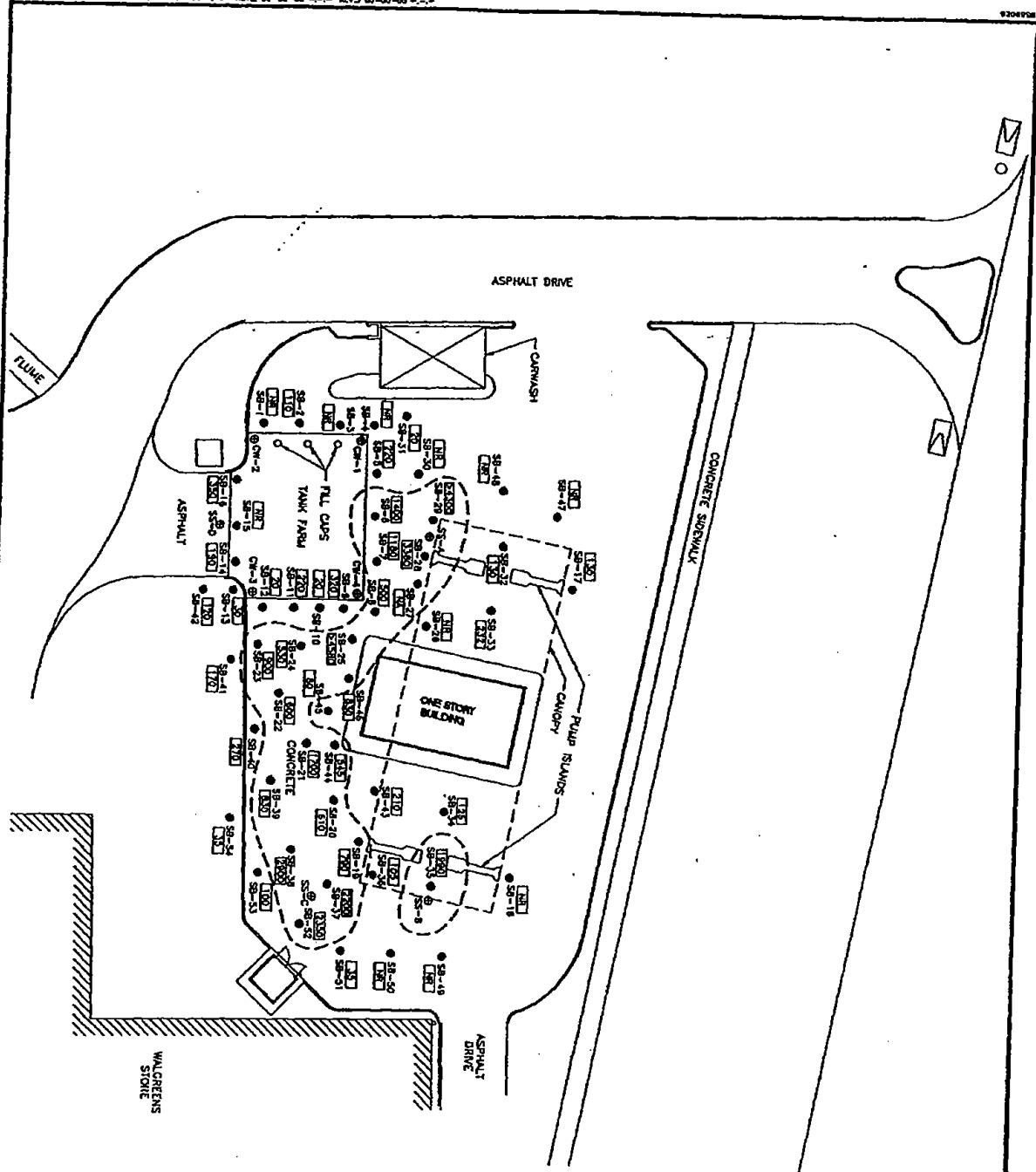
Technical Review Section

CONTAMINATION ASSESSMENT REPORT
ADDENDUM
GAS KWICK #49 *✓ Revised*
28014 COUNTY ROAD 54
WESLEY CHAPEL, FLORIDA
FDEP FACILITY NO. 519046575
TOWER PROJECT NO. 92069

Prepared by:

TOWER ENVIRONMENTAL, INC.
One Urban Centre
4830 West Kennedy Boulevard
Suite 950
Tampa, Florida 33609
(813) 282-8885

July, 1994



LEGEND

- OCW-2 COMPLIANCE WELL
- OS-8 SOIL SAMPLE LOCATION
- SB-34 SOIL BORING
- NS OVA CONCENTRATION IN ppm
- NR NO RESPONSE
- NDVA OVA DATA NOT AVAILABLE
- NDVA OVA CONCENTRATION (500ppm)

NOTE:
ALL NEGATIVE NET OVA READINGS
ARE DEPICTED AS NR ON THIS MAP

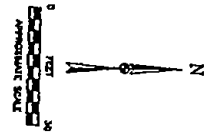
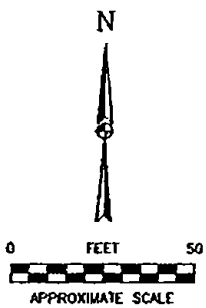
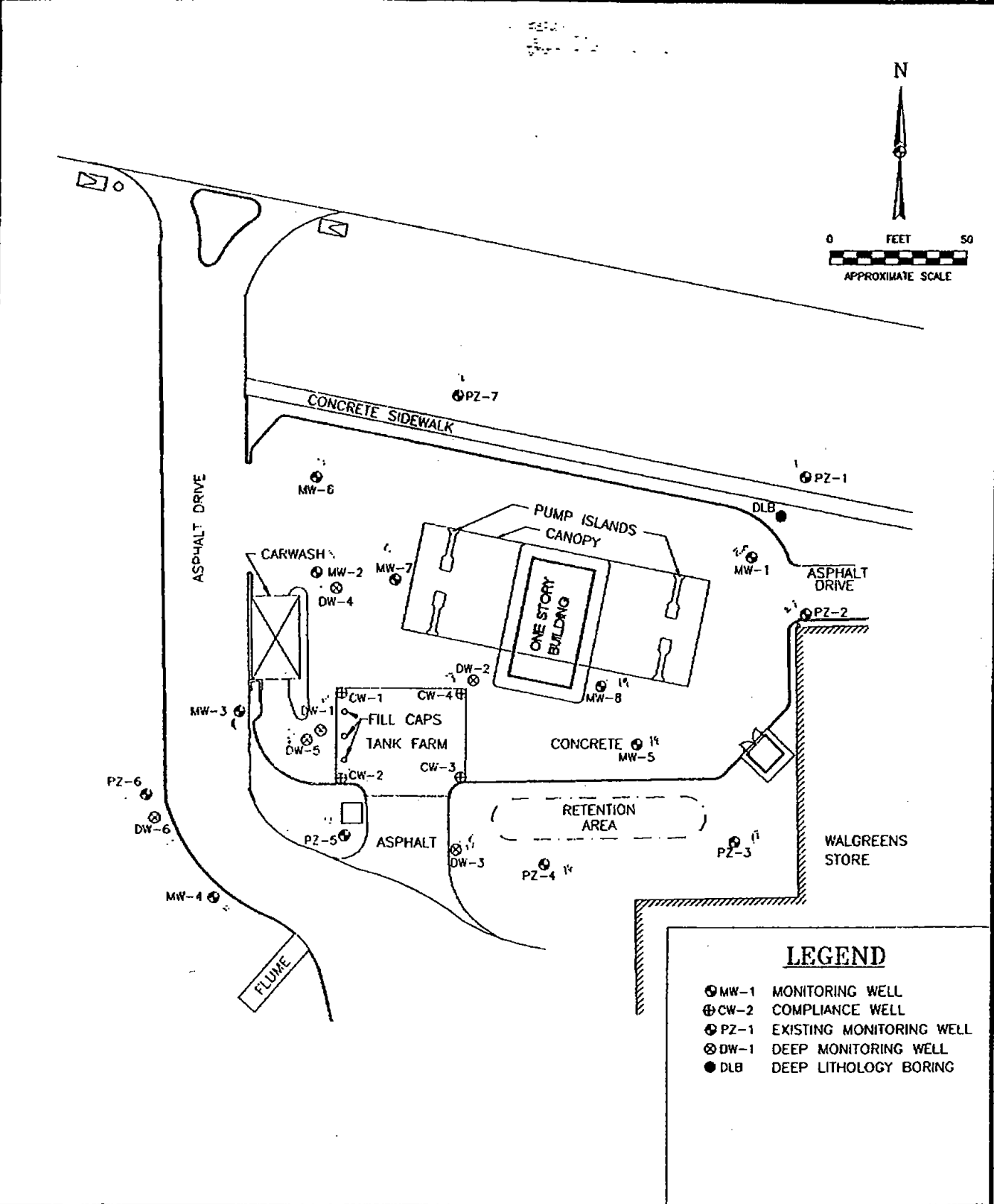


FIGURE 1
SOIL SAMPLE LOCATION MAP
GAS KWICK #49 • WESLEY CHAPEL, FLORIDA
CONTAMINATION ASSESSMENT REPORT ADDENDUM

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92069.1200	DRAFTED BY: MIKE SERRANO

TOWER ENVIRONMENTAL, INC.

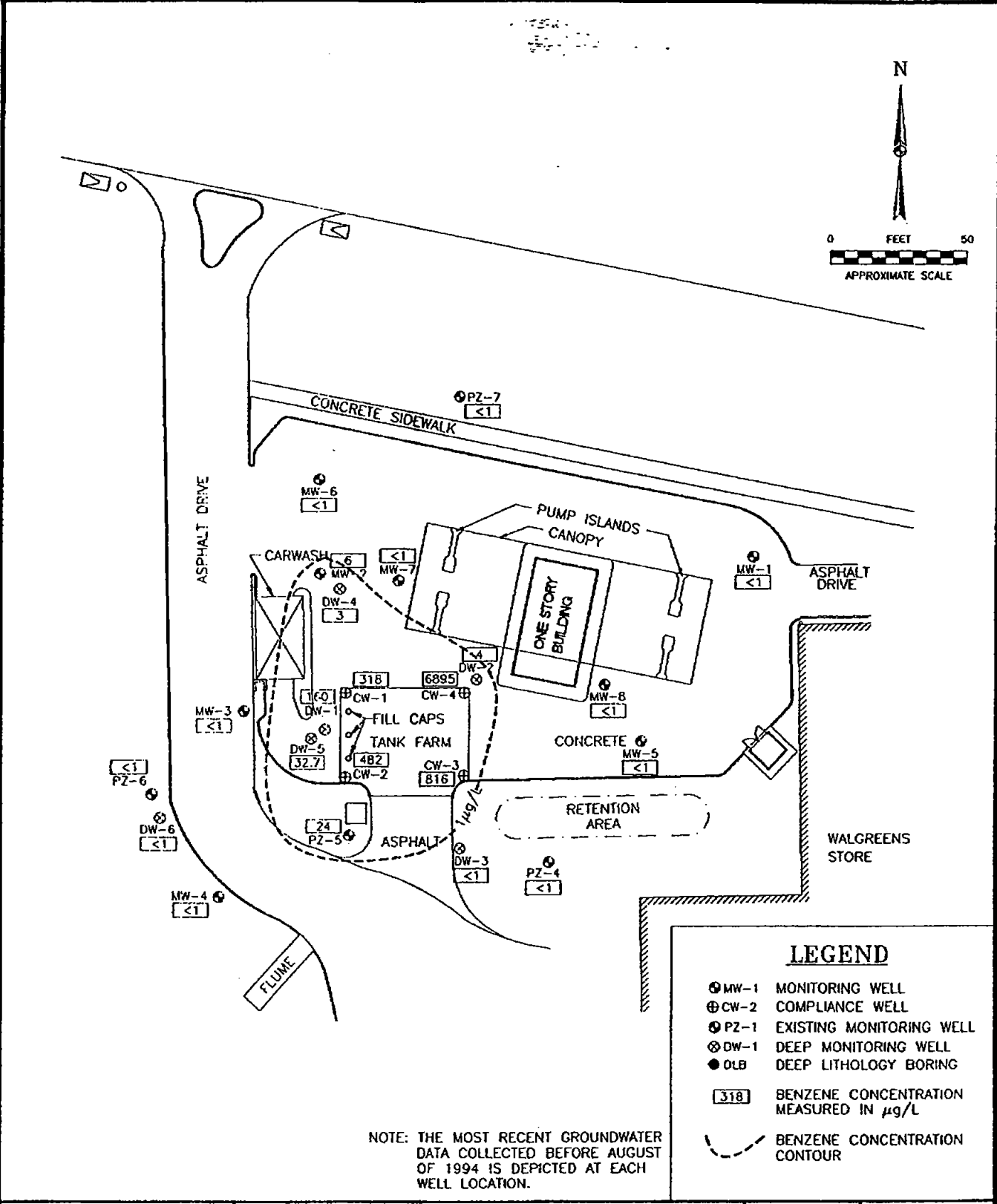


LEGEND	
⊙ MW-1	MONITORING WELL
⊕ CW-2	COMPLIANCE WELL
⊙ PZ-1	EXISTING MONITORING WELL
⊕ DW-1	DEEP MONITORING WELL
● DLB	DEEP LITHOLOGY BORING

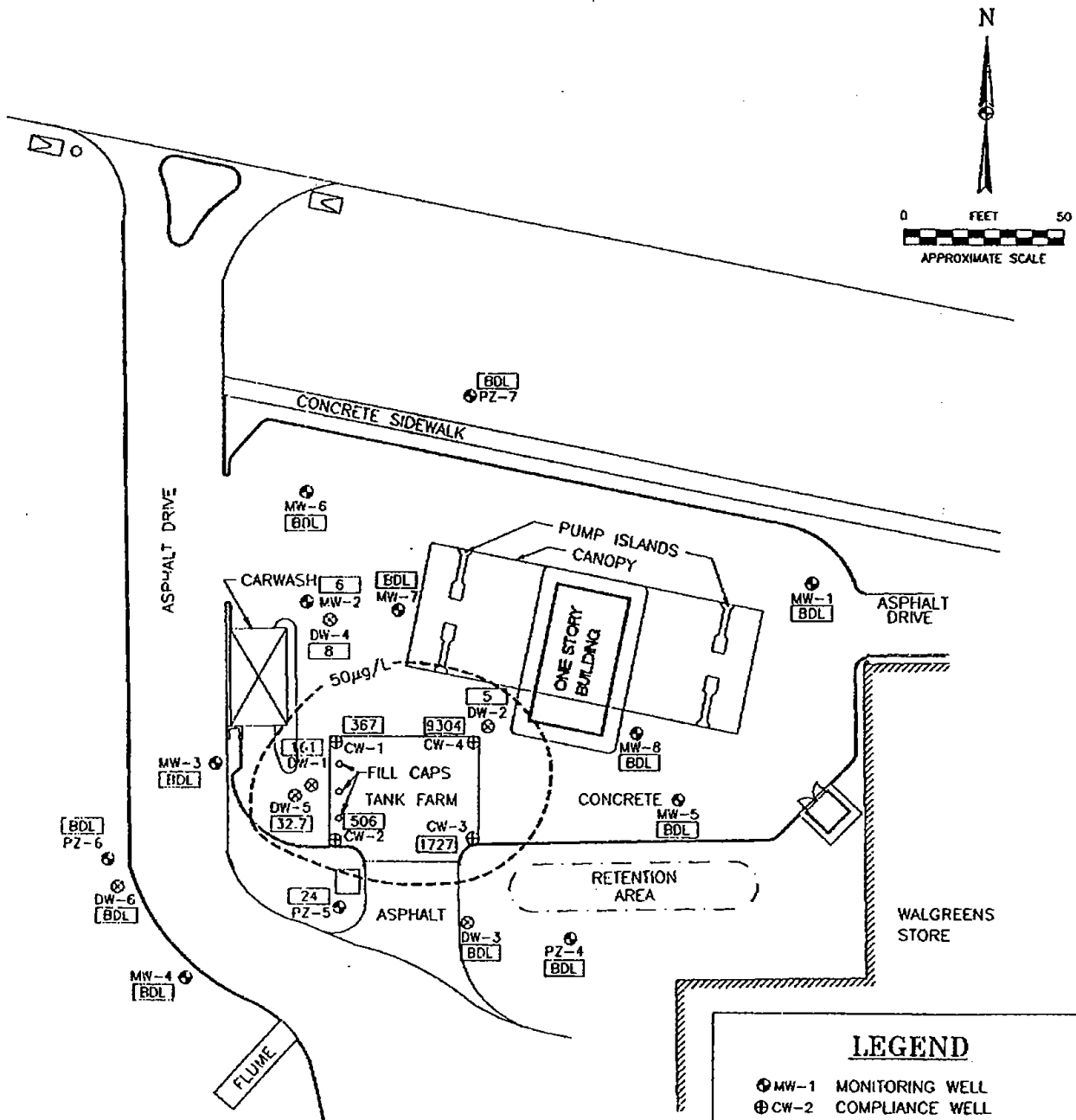
TOWER ENVIRONMENTAL, INC.

FIGURE 2
SITE MAP
 GAS KWICK #49 • WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT ADDENDUM

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92089.1200	DRAFTED BY: SEAN WILLIAMS



<p>TOWER ENVIRONMENTAL, INC.</p>	<p>FIGURE 3</p> <p>BENZENE CONCENTRATION CONTOUR MAP</p> <p>GAS KWICK #40 • WESLEY CHAPEL, FLORIDA</p> <p>CONTAMINATION ASSESSMENT REPORT ADDENDUM</p>	<p>APPROVED BY:</p> <p><i>MEE</i></p>	<p>REVIEWED BY:</p> <p><i>BAR</i></p>
		<p>PROJECT NO:</p> <p>92069.1200</p>	<p>DRAFTED BY:</p> <p>SEAN WILLIAMS</p>



NOTE: THE MOST RECENT GROUNDWATER DATA COLLECTED BEFORE AUGUST OF 1994 IS DEPICTED AT EACH WELL LOCATION.

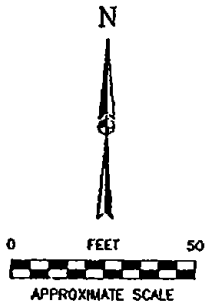
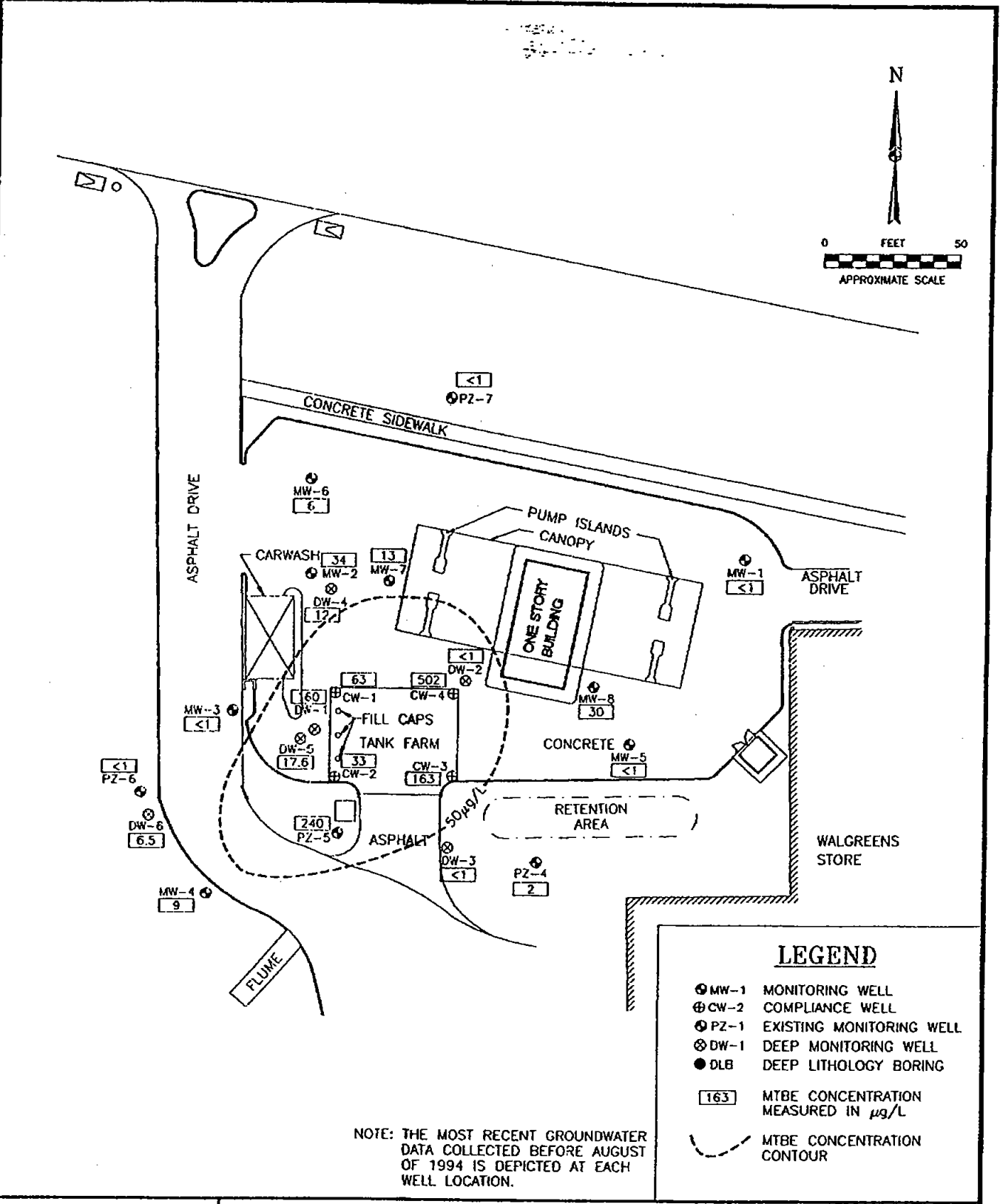
LEGEND

- ⊕ MW-1 MONITORING WELL
- ⊕ CW-2 COMPLIANCE WELL
- ⊕ PZ-1 EXISTING MONITORING WELL
- ⊕ DW-1 DEEP MONITORING WELL
- DLB DEEP LITHOLOGY BORING
- [318] TOTAL VOA CONCENTRATION MEASURED IN µg/L
- - - TOTAL VOA CONCENTRATION CONTOUR
- [BDL] BELOW DETECTABLE LIMITS

FIGURE 4
TOTAL VOA CONCENTRATION CONTOUR MAP
 GAS KWICK #49 * WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT ADDENDUM

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92089.1200	DRAFTED BY: SEAN WILLIAMS

TOWER ENVIRONMENTAL, INC.



LEGEND

- ⊕ MW-1 MONITORING WELL
- ⊕ CW-2 COMPLIANCE WELL
- ⊕ PZ-1 EXISTING MONITORING WELL
- ⊕ DW-1 DEEP MONITORING WELL
- DLB DEEP LITHOLOGY BORING
- [163] MTBE CONCENTRATION MEASURED IN µg/L
- - - - - MTBE CONCENTRATION CONTOUR

NOTE: THE MOST RECENT GROUNDWATER DATA COLLECTED BEFORE AUGUST OF 1994 IS DEPICTED AT EACH WELL LOCATION.

TOWER ENVIRONMENTAL, INC.

FIGURE 5
MTBE CONCENTRATION CONTOUR MAP
 GAS KWICK #40 • WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT ADDENDUM

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>DAR</i>
PROJECT NO: 92069.1200	DRAFTED BY: SEAN WILLIAMS

920990A.DWG

BASE, P06, CW, MW, DW, PZ, P2OFF

DRAWING 7-20-94 S.V.W. REV.1 00-00-00 REV.2 00-00-00 REV.3 00-00-00

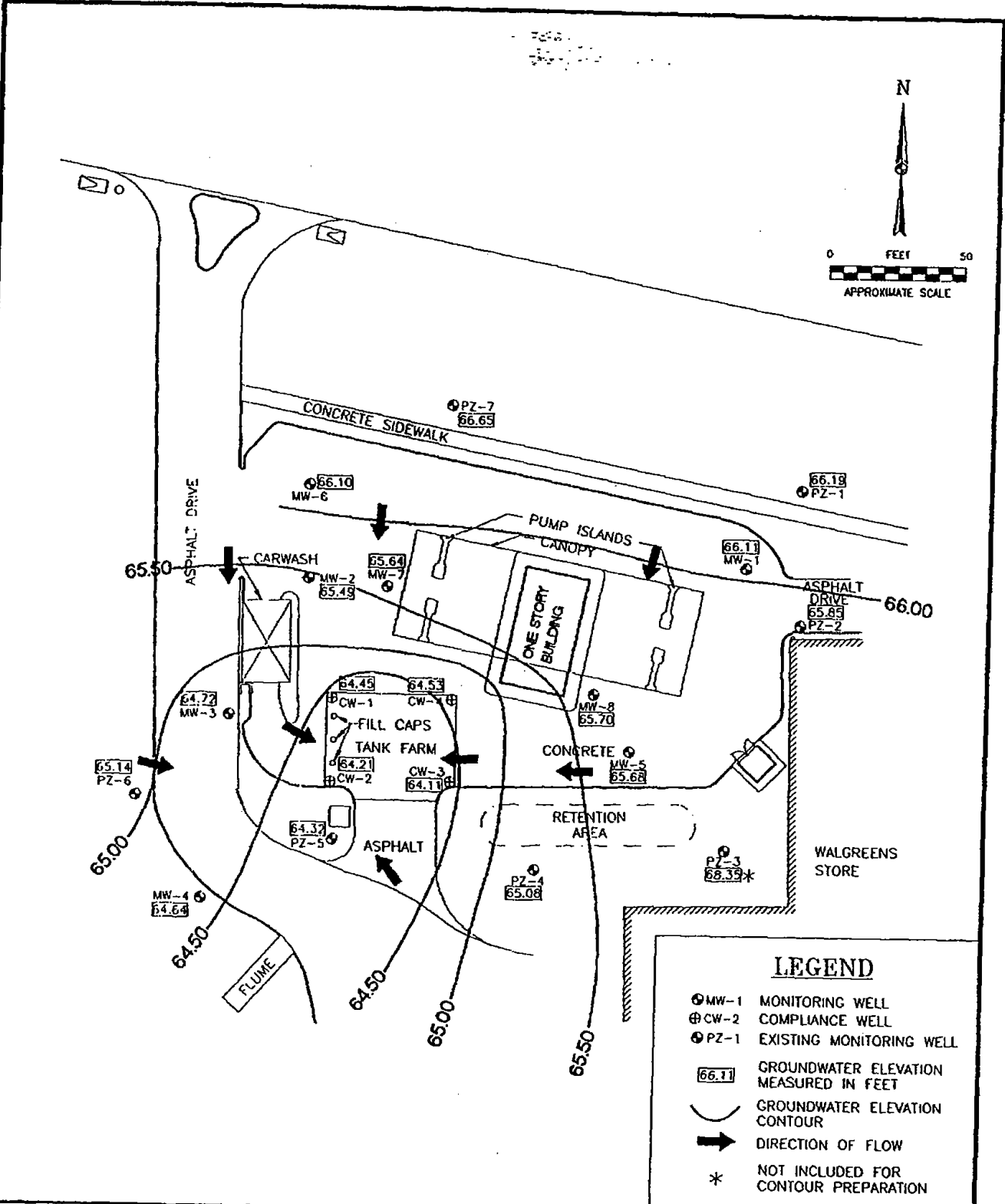
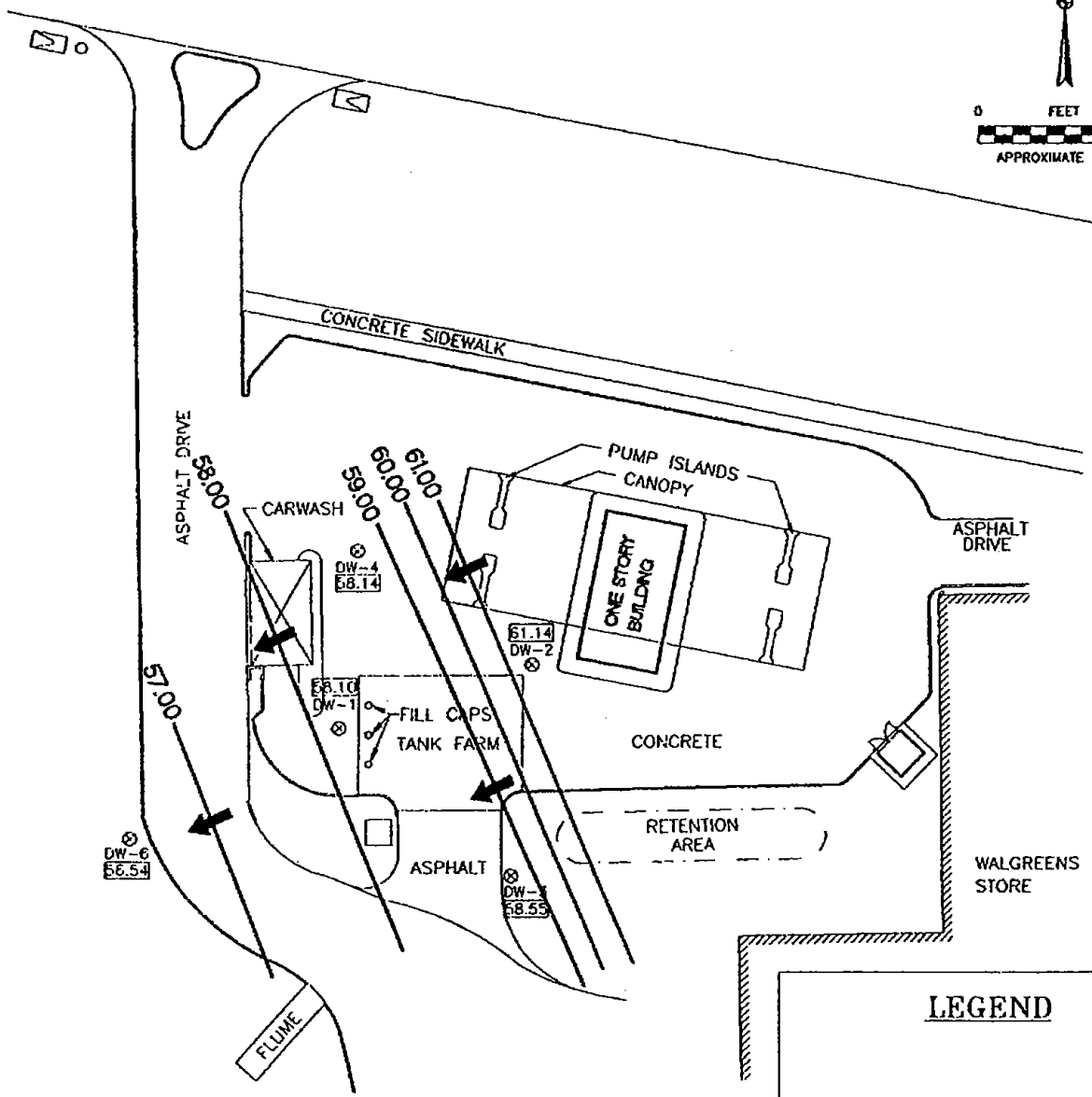
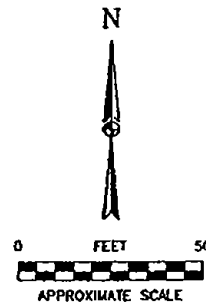


FIGURE 6
GROUNDWATER ELEVATION CONTOUR MAP
 (SHALLOW WATER TABLE)-JULY 7, 1994
 GAS KWICK #49 * WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT ADDENDUM

APPROVED BY: <i>MEE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92069.1200	DRAFTED BY: SEAN WILLIAMS

TOWER ENVIRONMENTAL, INC.



LEGEND

- ⊗ DW-1 DEEP MONITORING WELL
- 56.54 GROUNDWATER ELEVATION MEASURED IN FEET
- GROUNDWATER ELEVATION CONTOUR
- ➔ DIRECTION OF FLOW

TOWER ENVIRONMENTAL, INC.

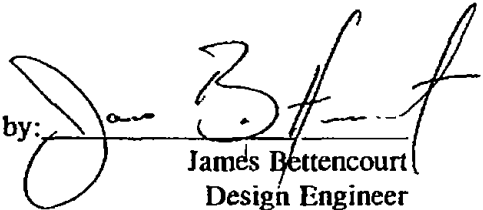
FIGURE 7
GROUNDWATER ELEVATION CONTOUR MAP
 (INTERMEDIATE DEPTH)-JULY 7, 1994
 GAS KWICK #49 • WESLEY CHAPEL, FLORIDA
 CONTAMINATION ASSESSMENT REPORT ADDENDUM

APPROVED BY: <i>NEE</i>	REVIEWED BY: <i>BAR</i>
PROJECT NO: 92069.1200	DRAFTED BY: SEAN WILLIAMS

REMEDIAL ACTION PLAN

**GAS KWICK #49
28014 COUNTY ROAD 54
WESLEY CHAPEL, FLORIDA
FDEP FACILITY NO. 519046575
HANDEX LOCATION CODE 109848-06**

Prepared by:


James Bettencourt
Design Engineer

Date: 11/30/95

Approved for Submittal:



Bruce N. Bosserman, P.E.
Engineering Manager
Florida License No. 47142

Date: 11/30/95



1.2 REMEDIAL ACTION PLAN OBJECTIVES

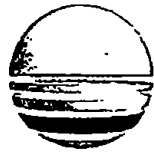
The objective of this Remedial Action Plan (RAP) is to design a plan to clean affected groundwater and soils present at the Gas Kwick #49 site to levels required under Florida Administrative Code, (F.A.C) 62-770. This will be accomplished in the most cost effective and timely manner with minimal impact on the environment.

1.3 SUMMARY OF PROPOSED REMEDIAL ACTION

The proposed remedial action will involve: 1) pumping of impacted groundwater from two recovery wells; 2) treating the water by air stripping; 3) discharging treated groundwater into the storm sewer and; 4) no action on "excessively contaminated" soil in the vadose zone.

10479

November 5, 2001



HANDEX
Practical Environmental Solutions

RECEIVED
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
NOV 13 PM 12:53
BUREAU OF PETROLEUM
STORAGE SYSTEMS
DOCUMENT MANAGEMENT
CENTER

Mr. Jeff Ray
Florida Department of Environmental Protection.
Petroleum Cleanup Section 6
Bureau of Petroleum Storage Systems
Twin Towers Office Building
2600 Blair Stone Rd
Tallahassee, FL 32399-2400

Reference: Texaco- Wesley Chapel (aka Gas Kwik #49)
28014 SR 54
Wesley Chapel, FL
FDEP Facility #: 519046575
Handex Project #: 122373.002
Workorder No.: 2001-96-0442-0

6
NOV 14 2001
BUREAU OF PETROLEUM STORAGE SYSTEMS

Dear Mr. Allen:

Handex of Florida, Inc. (Handex) is pleased to provide you with this report of the work completed at the above referenced site under the pre-approval work order 2001-96-0442-0. A copy of the work order and the one approved verbal changeorder are included in **Appendix A**.

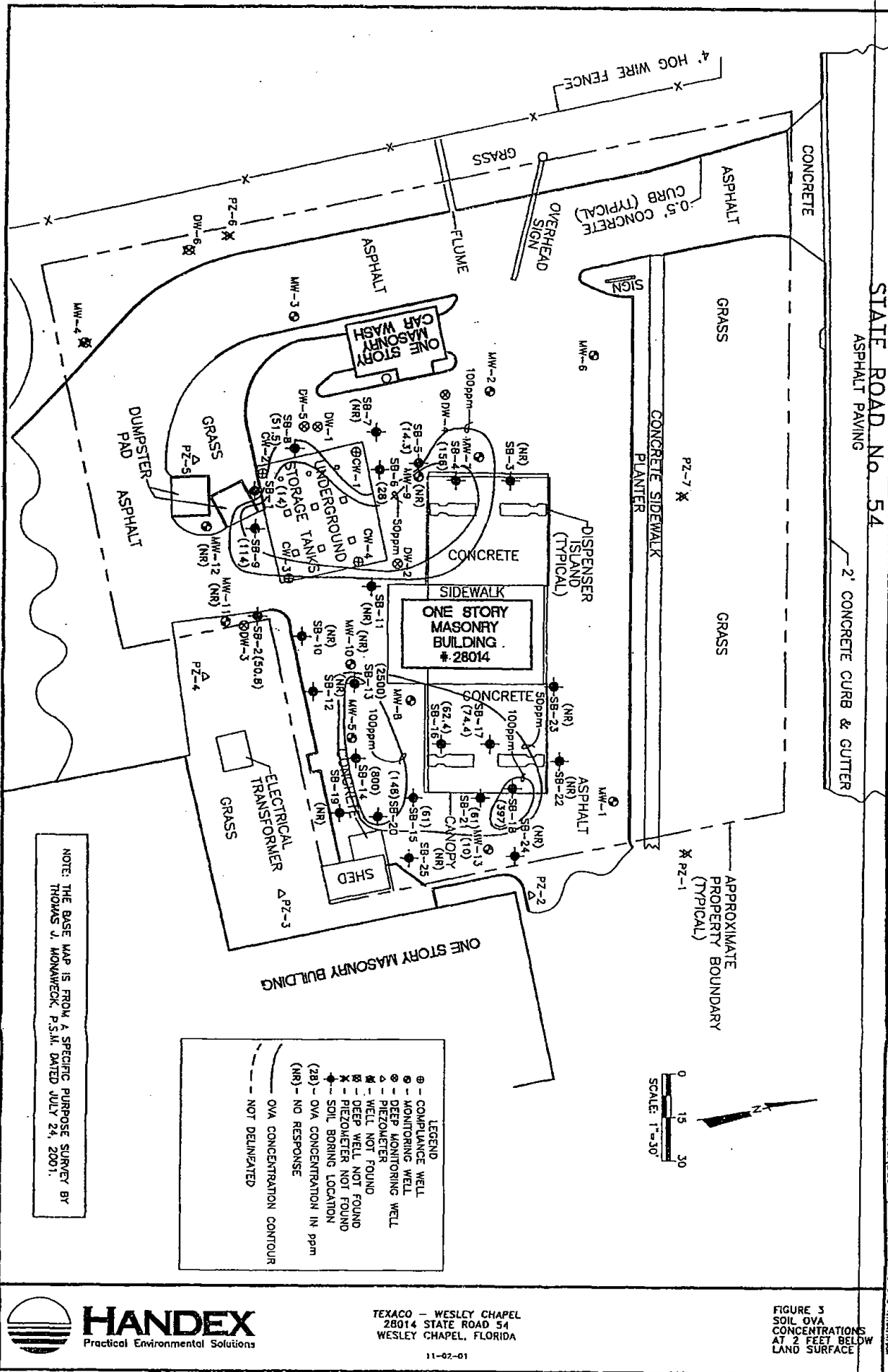
SITE MAP

In July of 2001, two representatives of Handex visited the site with electronic survey equipment and recorded site measurements needed to construct a site map. The collection of this data was supervised by Mr. Tom Monaweck, a professional surveyor. This data was inputted into a computer aided drafting program to generate the site map. An original blueprint of the site professionally sealed by Mr. Monaweck, along with the source file on a disk, has been attached to the report. The completed site plan is included as **Figure 1**.

SOIL BORING EXCAVATION

On October 1, 2001, two soil borings, designated SB-24 through SB-25, were manually excavated to a depth of 10 feet bls (one foot into the water table) at the locations shown on **Figure 2**. Soil samples were screened at two-foot intervals using a Heathtech model PortaFid II (Portable Flame Ionization Detector) organic vapor analyzer (OVA) at each boring location. Lithologic boring logs with OVA readings are included in **Appendix B**. **Figures 3, 4, 5, 6, and 7** depict the recent net OVA readings measured in the vadose zone at a depth of 2, 4, 6, 8, and 10 feet bls, respectively. Please note that the average depth to groundwater beneath this site in March of 2001 was measured to be approximately 10 feet bls. During a recent site visit in October of 2001, the average depth to groundwater

123272.002
 STATE ROAD No. 54
 ASPHALT PAVING
 2' CONCRETE CURB & GUTTER
 APPROXIMATE PROPERTY BOUNDARY (TYPICAL)
 PZ-1
 PZ-2
 PZ-3
 PZ-4
 PZ-5
 PZ-6
 PZ-7
 PZ-8
 PZ-9
 PZ-10
 PZ-11
 PZ-12
 PZ-13
 PZ-14
 PZ-15
 PZ-16
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 PZ-97
 PZ-98
 PZ-99
 PZ-100



NOTE: THE BASE MAP IS FROM A SPECIFIC PURPOSE SURVEY BY THOMAS J. MONAWECK, P.S.M., DATED JULY 24, 2001.

LEGEND

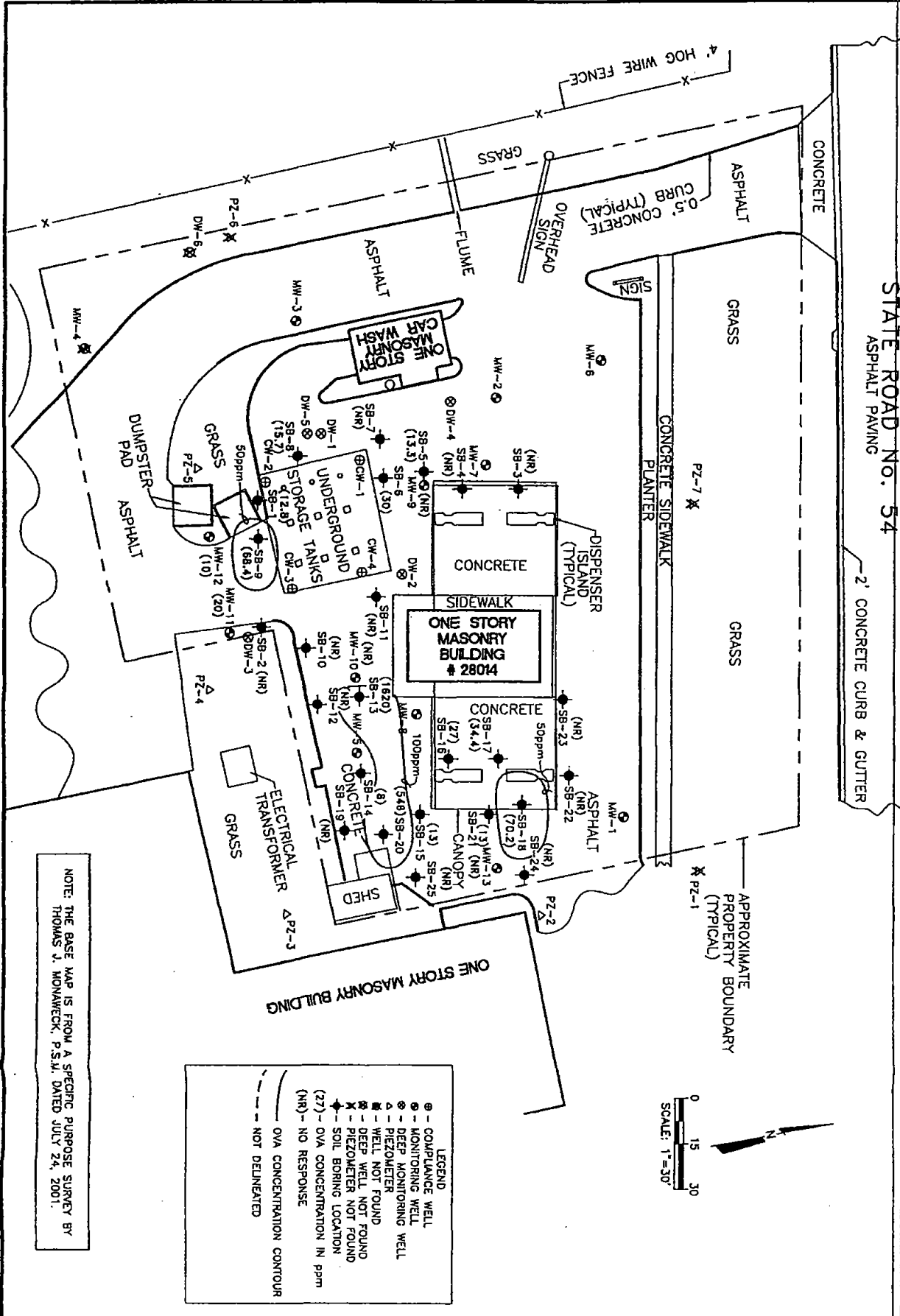
- ⊕ - COMPLIANCE WELL
- ⊙ - MONITORING WELL
- ⊚ - DEEP MONITORING WELL
- △ - PIEZOMETER
- ⊛ - WELL NOT FOUND
- ⊜ - DEEP WELL NOT FOUND
- ⊝ - PIEZOMETER NOT FOUND
- ⊞ - SOIL BORING LOCATION
- (NR) - NO RESPONSE
- (2B) - OVA CONCENTRATION IN ppm
- - OVA CONCENTRATION CONTOUR
- - - NOT DELINEATED



TEXACO - WESLEY CHAPEL
 28014 STATE ROAD 54
 WESLEY CHAPEL, FLORIDA
 11-02-01

FIGURE 3
 SOIL OVA
 CONCENTRATIONS
 AT 2 FEET BELOW
 LAND SURFACE

12312302
 FIG. 51 (CONTOUR) UNDERGROUND WATER MONITORING THROUGHOUT



STATE ROAD No. 54
 ASPHALT PAVING

2' CONCRETE CURB & GUTTER

FIGURE 4
 SOIL OVA
 CONCENTRATIONS
 AT 4 FEET BELOW
 LAND SURFACE



TEXACO - WESLEY CHAPEL
 28014 STATE ROAD 54
 WESLEY CHAPEL, FLORIDA

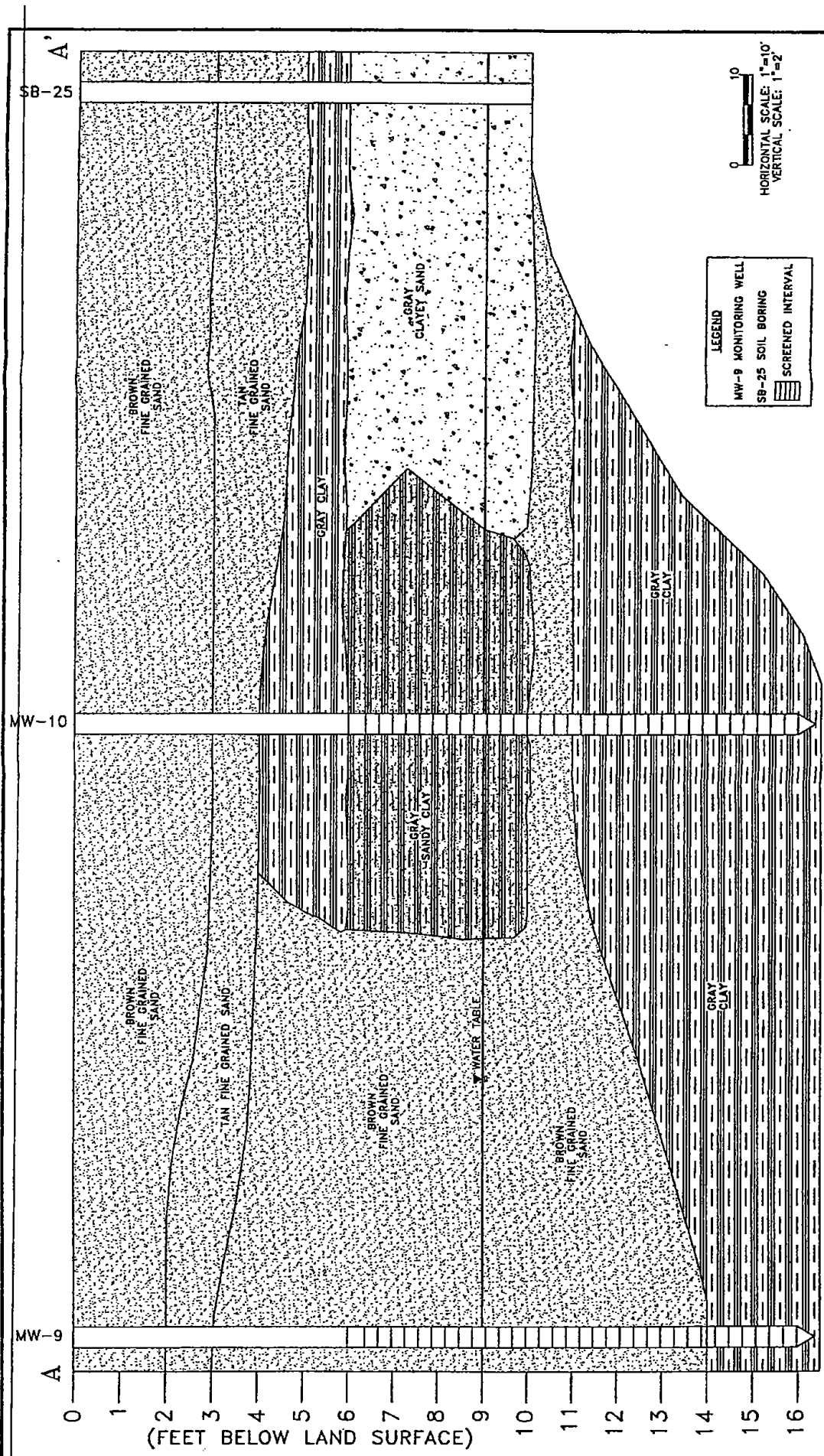


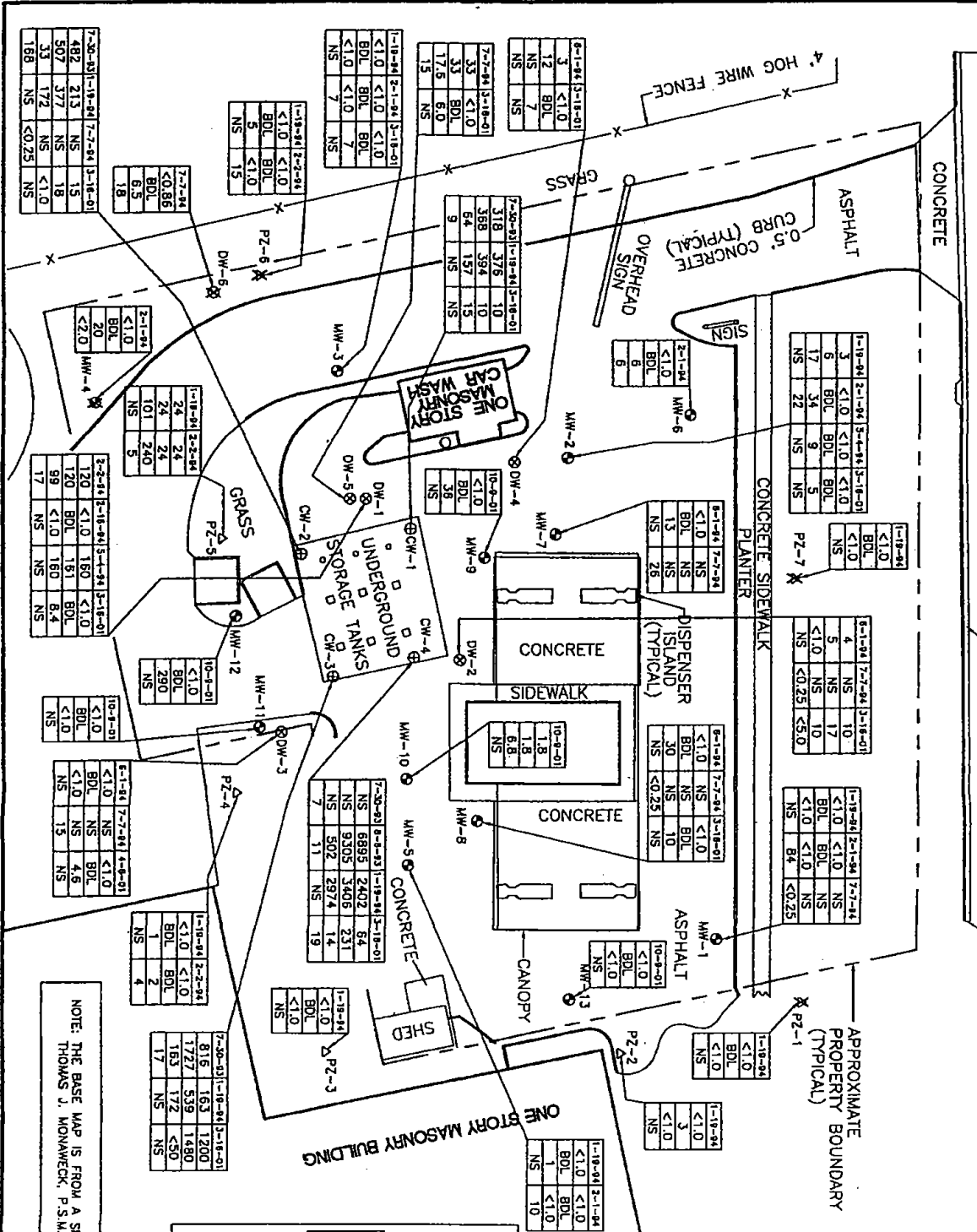
FIGURE 9
 GEOLOGIC
 CROSS-SECTION
 A-A'

TEXACO - WESLEY CHAPEL
 28014 STATE ROAD 54
 WESLEY CHAPEL, FLORIDA
 11-02-01

HANDEX
 Precise Environmental Solutions



STATE ROAD No. 54
ASPHALT PAVING
2' CONCRETE CURB & GUTTER



NOTE: THE BASE MAP IS FROM A SPECIFIC PURPOSE SURVEY BY THOMAS J. MONNWECK, P.S.M. DATED JULY 24, 2001.

LEGEND

- ⊕ - COMPLIANCE WELL
- ⊙ - MONITORING WELL
- ⊖ - DEEP MONITORING WELL
- △ - PIEZOMETER
- ⊗ - WELL NOT FOUND
- ⊘ - DEEP WELL NOT FOUND
- ⊙ - WELLER NOT FOUND
- ⊙ - PIEZOMETER NOT FOUND

DATE SAMPLED

BENZENE CONCENTRATION

TOTAL VOA CONCENTRATION

MTBE CONCENTRATION

TOTAL LEAD CONCENTRATION (IN mg/L)

BOL - ALL COMPONENTS CONTRIBUTING TO THE SUMMED VALUE WERE BELOW THEIR RESPECTIVE DETECTION LIMITS

NS - NOT SAMPLED

CONCENTRATIONS IN ug/L

7-2-01	120	120	99	17
1-18-01	120	120	153	17
7-2-01	1727	539	1480	153
1-18-01	1727	539	1480	153
7-2-01	816	163	1200	17
1-18-01	816	163	1200	17

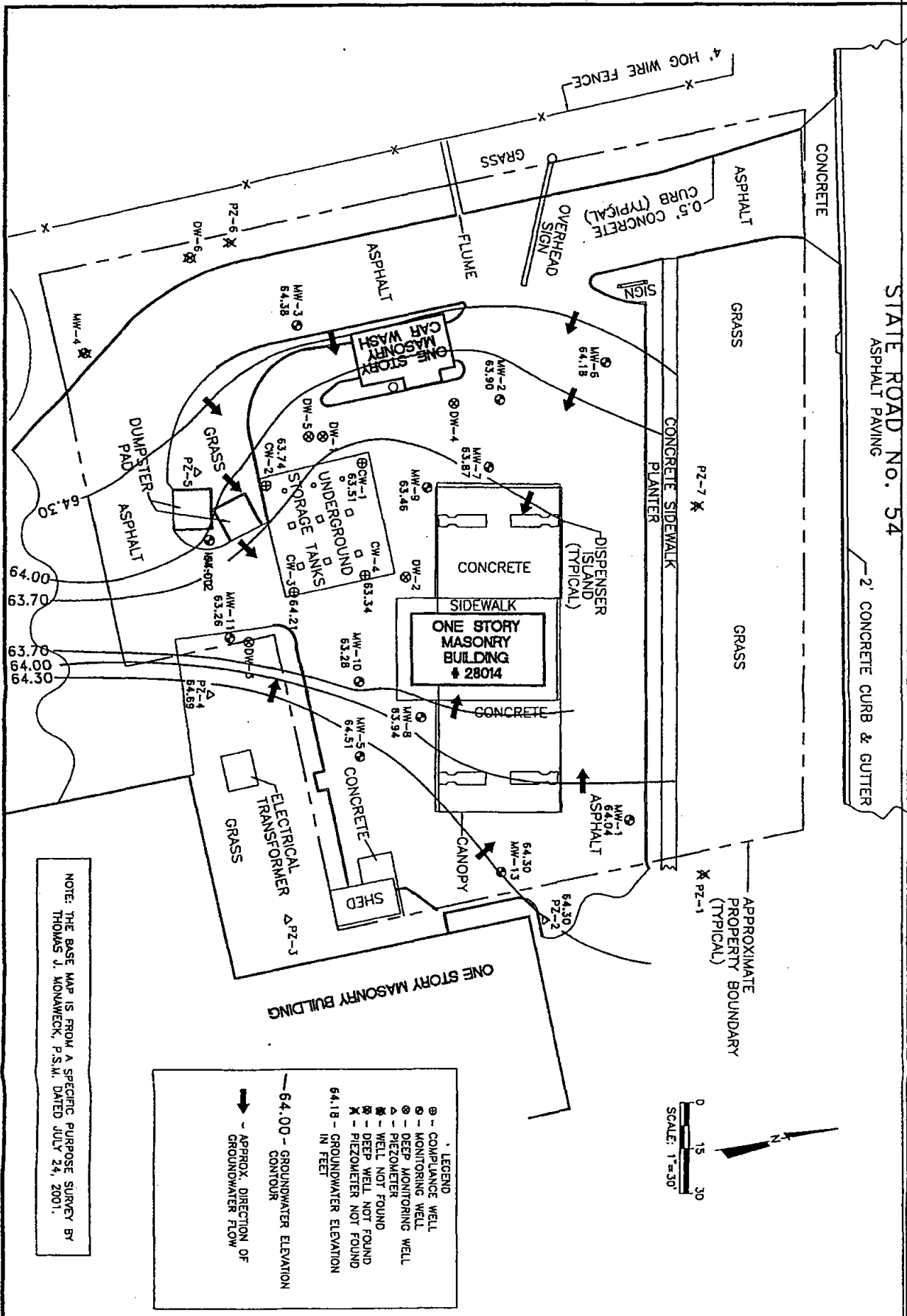
TEXACO - WESLEY CHAPEL
28014 STATE ROAD 54
WESLEY CHAPEL, FLORIDA

FIGURE 11
DISTRIBUTION
OF DISSOLVED
HYDROCARBONS



122723.002

TRC: S:\CAD\DATA\WALDECK\DWG\WGTALDWG 11/24/01



NOTE: THE BASE MAP IS FROM A SPECIFIC PURPOSE SURVEY BY THOMAS J. KONAWECK, P.S.M., DATED JULY 24, 2001.

LEGEND

- ⊙ - COMPLIANCE WELL
- ⊙ - MONITORING WELL
- ⊙ - DEEP MONITORING WELL
- ⊙ - PIEZOMETER
- ⊙ - WELL NOT FOUND
- ⊙ - DEEP WELL NOT FOUND
- ⊙ - PIEZOMETER NOT FOUND
- ⊙ - PIEZOMETER ELEVATION IN FEET
- 64.00 - GROUNDWATER ELEVATION CONTOUR
- - APPROX. DIRECTION OF GROUNDWATER FLOW



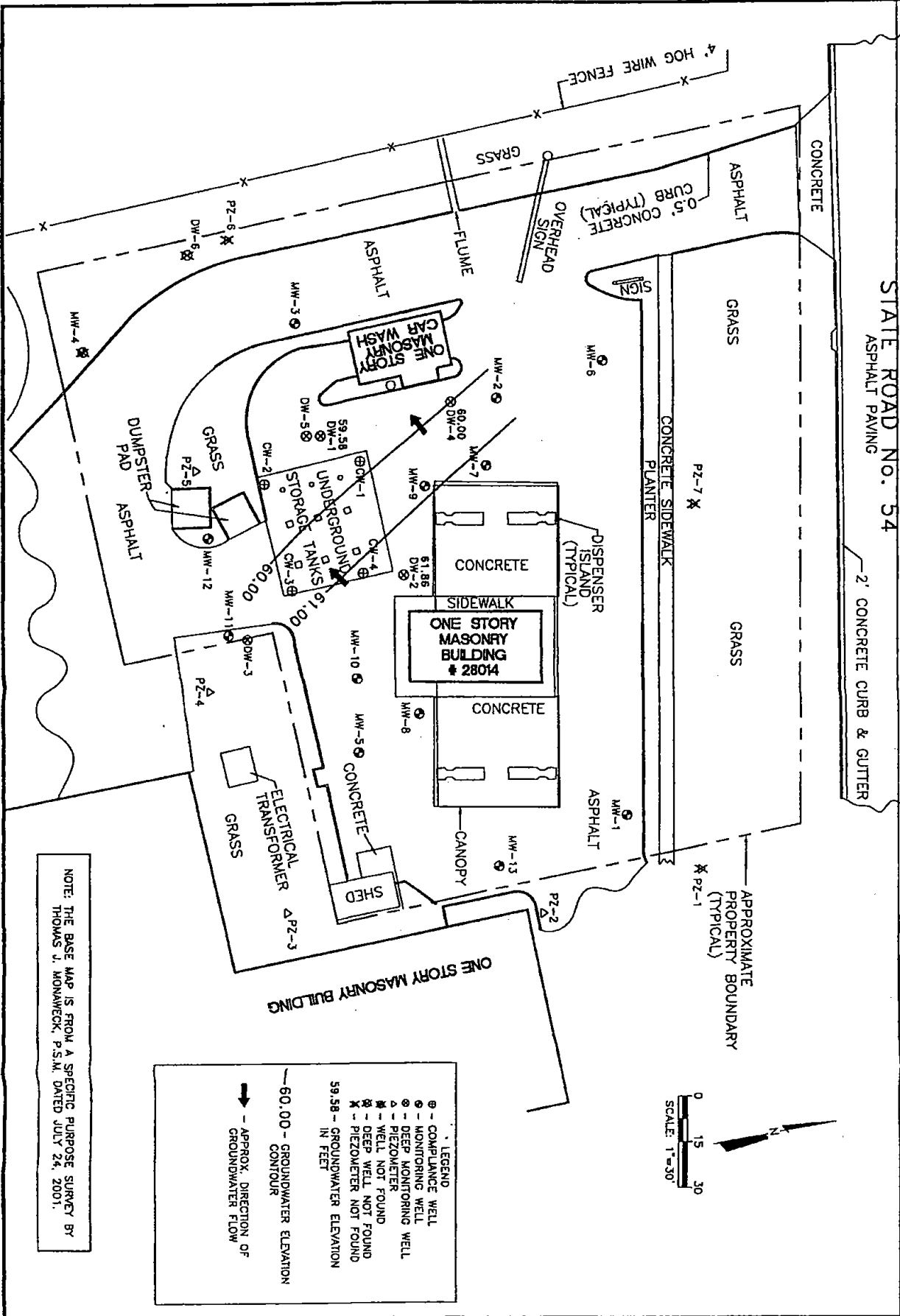
TEXACO - WESLEY CHAPEL
 28014 STATE ROAD 54
 WESLEY CHAPEL, FLORIDA

11-02-01

FIGURE 12
 GROUNDWATER
 ELEVATION
 CONTOUR MAP
 (SHALLOW WELLS)
 OCTOBER 9, 2001

112273.002

TKA: SA\CDR\A\WATER\CONTOUR\WELLS.DWG: 11/28/01



NOTE: THE BASE MAP IS FROM A SPECIFIC PURPOSE SURVEY BY THOMAS J. MONAWECK, P.S.M. DATED JULY 24, 2001.

LEGEND

- ⊙ - COMPLIANCE WELL
- ⊙ - MONITORING WELL
- ⊙ - DEEP MONITORING WELL
- ⊙ - PIEZOMETER
- ⊙ - WELL NOT FOUND
- ⊙ - DEEP WELL NOT FOUND
- ⊙ - PIEZOMETER NOT FOUND
- 59.58 - GROUNDWATER ELEVATION IN FEET
- 60.00 - GROUNDWATER ELEVATION CONTOUR
- - APPROX. DIRECTION OF GROUNDWATER FLOW



TEXACO - WESLEY CHAPEL
 28014 STATE ROAD 54
 WESLEY CHAPEL, FLORIDA
 11-02-01

FIGURE 13
 GROUNDWATER
 ELEVATION
 CONTOUR MAP
 (INTERMEDIATE WELLS)
 OCTOBER 9, 2001

Site No. 20 – RaceTrac #407



Site No. 20 – RaceTrac #407

Site No. 21 – Citgo



Site No. 21 – Citgo



Site No. 21 – Citgo



Site No. 21 – Citgo

ci 1/8°
CHEVRON U.S.A., INC.
FACILITY NO. 47128
ZEPHYRHILLS, FLORIDA

Division of Waste Control

DEC 8 1994

Technical Review Station

CONTAMINATION ASSESSMENT REPORT

FDEP NO. 518515078
PROJECT NO. 1141-50
NOVEMBER 1994

Reporting Author

Robert W. Thompson

Robert W. Thompson

Geologist

Professional Geologist

Peter J. Larko

Peter J. Larko, P.G.

Florida #1019

Prepared by

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(813) 265-3044

Offices in New York, Wisconsin, Michigan, Georgia, Florida, and New Jersey

1.0 BACKGROUND

1.1 Project Introduction

Eder Associates was retained by Chevron U.S.A., Inc. to conduct a contamination assessment (CA) and prepare a contamination assessment report (CAR) at Chevron Facility No. 47128 in Zephyrhills, Florida. A discharge reporting form was filed by Chevron upon the detection of hydrocarbon-impacted groundwater in monitoring well CW-5. The CA was completed to delineate the horizontal and vertical extent of hydrocarbons in the subsurface at the referenced facility.

1.2 Site Description

Chevron Facility No. 47128 is on the north side of State Road 54 at the intersection of State Road 54 and Interstate-75 (Figure 1). The site consists of a minimart, five dispenser islands, and four underground storage tanks (USTs) (Figure 2). Local land use includes a Texaco station southeast of the site (east of Interstate-75), an Amoco station west of the site (Figure 3), and other commercial establishments (Figure 3).

The Chevron Station is an active facility registered with the Florida Department of Environmental Protection (FDEP) as Facility No. 518515078. Three 10,000-gallon USTs containing Chevron Super, Regular, and Plus unleaded gasoline are located east of the minimart, and one 10,000-gallon diesel UST is west of the minimart. The USTs are equipped with spill containment and overfill protection. Associated piping is red jacketed fiberglass. The USTs and piping both have leak detectors.

There are nine compliance wells, CW-1 through CW-9, at the site. Well CW-1 is located near the western property boundary, wells CW-2 through CW-4 are next to the diesel UST, well CW-5

the OVA/FID was calibrated to 100 parts per million (ppm) methane. The soil samples were analyzed in accordance with the procedure in Rule 62-770.200(2), FAC, as outlined by FDEP guidelines. Each soil sample was split equally and placed into two glass containers. A carbon filter was used on the split soil sample when the corresponding original soil sample had an unfiltered OVA reading greater than ten ppm. The carbon filter was used to absorb the organic vapors so the natural background gasses (methane) in the soil could be determined.

Soil samples SB-1 through SB-9 were submitted to Analytical Technologies, Inc. (ATI) for analysis by EPA Method 8010 [volatile organic halocarbons (VOHs)], and EPA Method 8020 [volatile organic aromatics (VOAs)].

All activities associated with the organic vapor survey and soil sampling were conducted in accordance with Fder's approved CompQAP.

4.1.3 Results

"Excessively contaminated" soil, as established by the FDEP (OVA reading greater than 50 ppm), was detected in the soil samples from SB-13 (460 ppm) and SB-17 (1,000 ppm). Soil borings SB-14, SB-15, SB-16, and SB-18 were drilled to delineate the areal extent of "excessively contaminated" soil and did not have OVA readings greater than ten ppm. The areal and vertical extent of the "excessively contaminated" and "contaminated" soil has been delineated. Results of the organic vapor survey have been tabulated and are in Table 1. Results of the organic vapor survey are shown on Figure 5.

Soil samples submitted to ATI for analysis by EPA Method 8010 and EPA Method 8020 indicate there are no hydrocarbon impacts to the subsurface in those areas. Results of the laboratory analysis have been summarized in Table 2. Soil analytical results are shown on Figure 6. Copies of laboratory soil results are in Appendix D.

4.4 Liquid-Phase Hydrocarbon Measurement

4.4.1 Purpose

Liquid-phase hydrocarbon (LPH) screening was conducted to determine the presence or absence of LPHs on site.

4.4.2 Methodology and Sampling Procedures

A water sample from each well was collected using an acrylic bailer and inspected for presence of LPHs and LPH sheens.

4.4.3 Results

LPHs and LPH sheens were not detected at the site.

4.5 Groundwater Quality Investigation

4.5.1 Purpose

Groundwater samples were collected from wells CW-1 through CW-9, MW-10, MW-11, DW-12, and MW-13 to assess the groundwater quality in the surficial aquifer beneath the site.

On August 12, 1994, groundwater samples were collected from wells CW-1 through CW-9, MW-10, MW-11, DW-12, and MW-13. The groundwater samples from wells CW-2 through CW-6, and MW-10 were submitted for analysis by EPA Method 601 (VOHs), EPA Method 602 (VOAs), and EPA Method 610 [polynuclear aromatic hydrocarbons (PAHs)]. The groundwater samples from wells CW-1, CW-7 through CW-9, and MW-11 were submitted for analysis by EPA Method 602. An equipment blank was also collected and analyzed for the above parameters.

On October 14, 1994, groundwater samples were collected from wells CW-1 through CW-9, MW-10, MW-11, DW-12, and MW-13. The groundwater samples from wells DW-12 and MW-12 were submitted for analysis by EPA Method 602, EPA Method 610, EPA Method 239.2, EPA Method 418.1, EPA Method 504, and EPA Method 601. The groundwater samples from wells CW-1 and MW-11 were submitted for analysis by EPA Method 239.2 (lead), EPA Method 418.1 [total petroleum hydrocarbons (TPHs)], EPA Method 504 [ethylene dibromide (EDB)], EPA Method 601, and EPA Method 610. The groundwater samples from wells CW-2 through CW-5, and MW-10 were submitted for analysis by EPA Method 239.2, EPA Method 418.1, and EPA Method 504. The groundwater samples from wells CW-6 through CW-9 were submitted for analysis by EPA Method 239.2, EPA Method 504, and EPA Method 601.

4.5.2 Methodology and Sampling Procedures

Teflon™ bailers were used to purge the wells of four volumes of water. Conductivity, temperature, and pH readings were recorded before sampling to ensure samples were representative of the shallow aquifer. Groundwater was sampled in accordance with Eder's CompQAP.

4.5.3 Groundwater Quality Investigation Results

The groundwater sample from monitoring well CW-5 contained benzene [2,000 micrograms per liter ($\mu\text{g/L}$)], total VOAs (2,733 $\mu\text{g/L}$), acenaphthylene (51 $\mu\text{g/L}$), fluoranthene (2 $\mu\text{g/L}$), fluorene (3 $\mu\text{g/L}$), naphthalene (340 $\mu\text{g/L}$), 1-methylnaphthalene (8 $\mu\text{g/L}$), 2-methylnaphthalene (160 $\mu\text{g/L}$), total naphthalenes (508 $\mu\text{g/L}$), TPHs (3 $\mu\text{g/L}$), and lead (16 $\mu\text{g/L}$). The benzene, total VOAs, acenaphthylene, and total naphthalene concentrations are greater than the FDEP MCLs.

Lead was not detected in groundwater samples above the FDEP's MCL (50 $\mu\text{g/L}$) as stated in Chapter 62-550, FAC. The extent of hydrocarbon impacted groundwater has been defined.

Results of field analysis measurements taken during sampling are in Table 6. A summary of groundwater analytical results is in Table 7. Groundwater quality maps are included as Figures 10 and 11. Copies of laboratory reports are in Appendix G and the field data sheets are in Appendix H.

5.0 CONCLUSIONS

A CA was initiated at Chevron No. 47128 in response to the discovery of hydrocarbon-impacted groundwater in a groundwater sample from well CW-5.

A summary of the assessment findings is as follows:

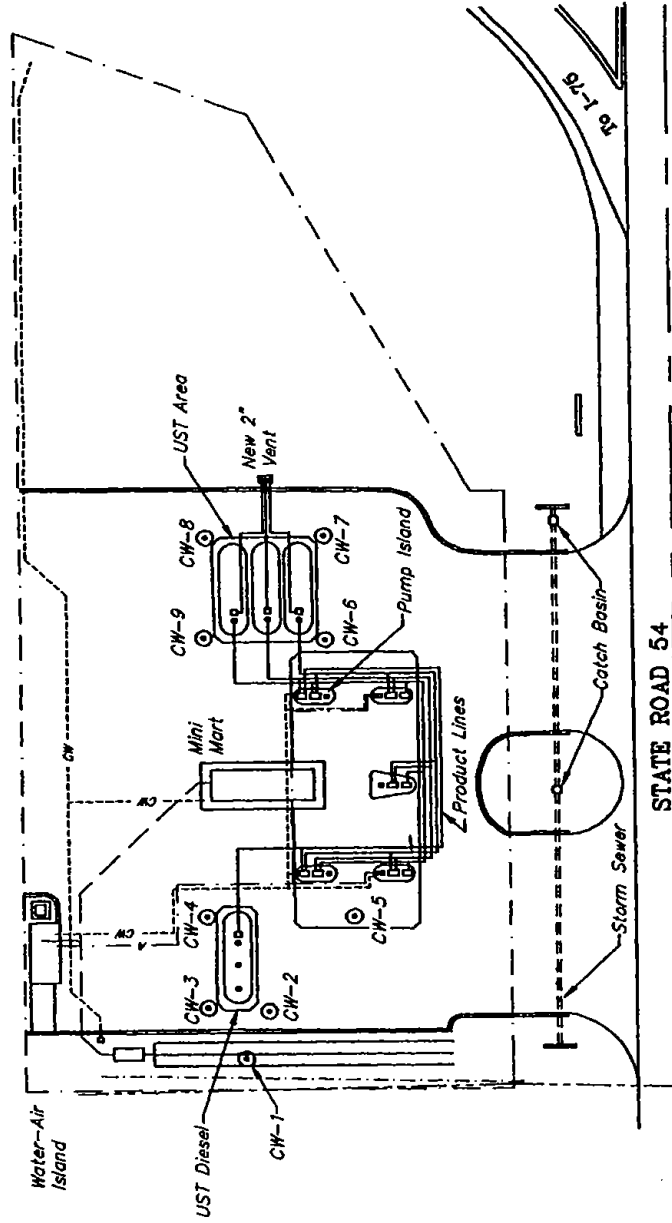
1. A review of SWFWMD records indicated there are 29 domestic and 14 public supply wells with a one-mile radius of the site. A visual survey by Eder personnel could not confirm the presence of private potable wells with a ¼-mile radius or public supply wells within ½-mile radius of the site.
2. "Excessively contaminated" soil (OVA reading >50 ppm) was detected in soil samples from soil borings SB-13 (460 ppm), and SB-17 (1,000 ppm).
3. Soil samples from borings SB-1 to SB-9 submitted for laboratory analysis by EPA Method 8010 and 8020 did not contain evidence of petroleum impacts to the subsurface.
4. The extent of "excessively contaminated" soil has been defined. The area encompasses approximately 400 square feet.
5. The depth to groundwater is approximately four ft bls.
6. Groundwater flow in the surficial aquifer is to the south-southwest.
7. From the Bouwer and Rice method, the average hydraulic conductivity (K) was determined to be 0.90 ft/day. The average transmissivity of the surficial aquifer was

calculated to be 22.50 ft²/day. The average horizontal velocity of groundwater through the surficial aquifer was calculated to be 11.31 ft/year.

8. LPH and LPH sheens were not detected on site.
9. The groundwater sample from CW-5 had the highest contaminant concentrations. Benzene (2,000 µg/L), total VOAs (2,733 µg/L), acenaphthylene (51 µg/L), naphthalene (340 µg/L), 2-methylnaphthalene (160 µg/L), total naphthalenes (50~~4~~³ µg/L), and TPH (3 mg/L) were detected in the sample from CW-5. Benzene, acenaphthylene, and total naphthalenes were detected above FDEP MCLs.
10. Lead was not detected in groundwater samples above the FDEP's MCL (50 µg/L) as stated in Chapter 62-550, FAC.
11. The areal extent of "excessively contaminated" soil and impacted groundwater has been defined.

6.0 RECOMMENDATIONS

A remedial action plan (RAP) which addresses the soil and groundwater should be prepared for the site (Chevron No. 47128) located at the intersection of Interstate-75 and State Road 54 in Zephyrhills, Florida.



LEGEND

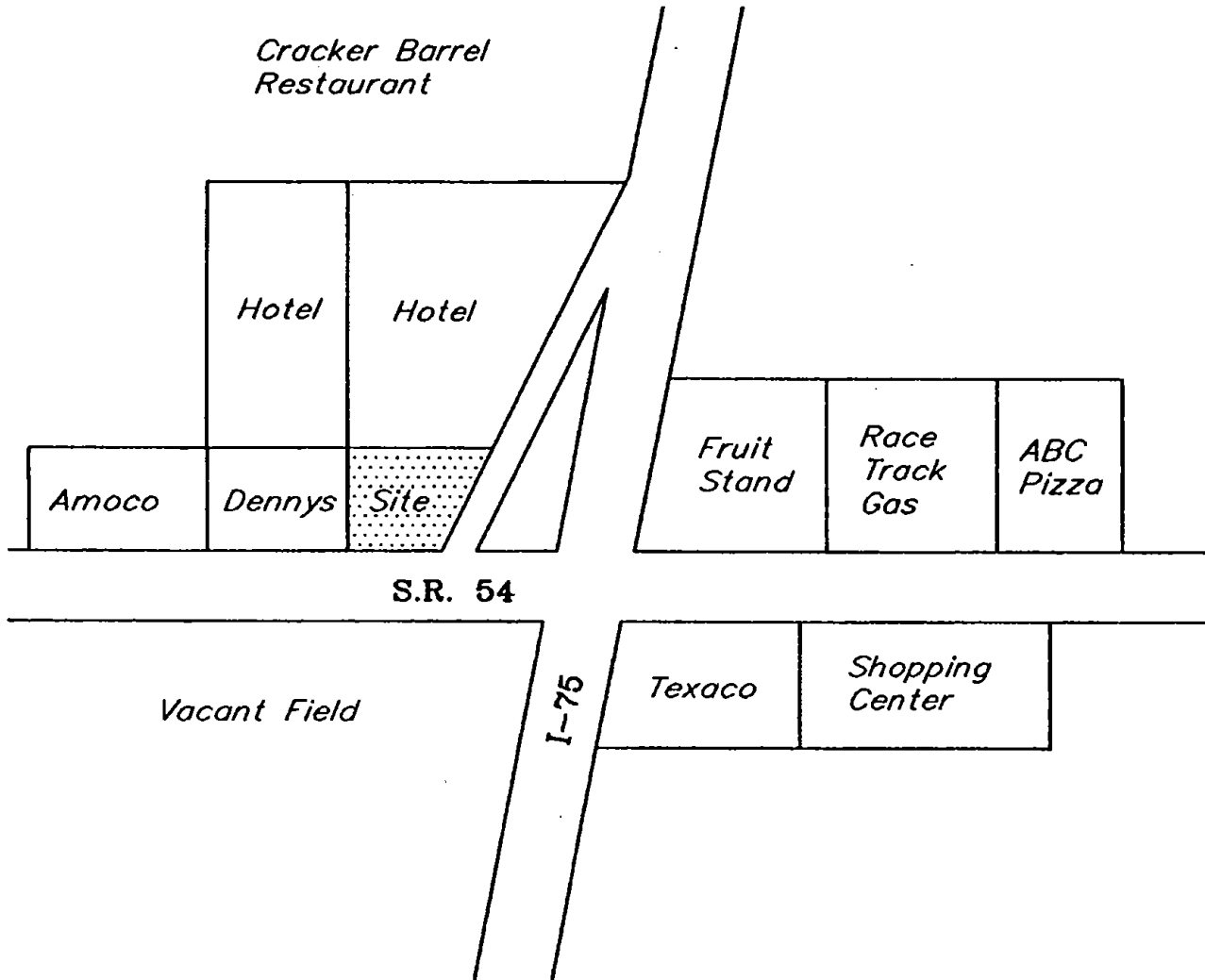
⊙ Compliance Well
 CW-4

NOTE Mini-Mart & Pump
 Islands Are Not Drawn To Scale

A = Air
 CW = Water

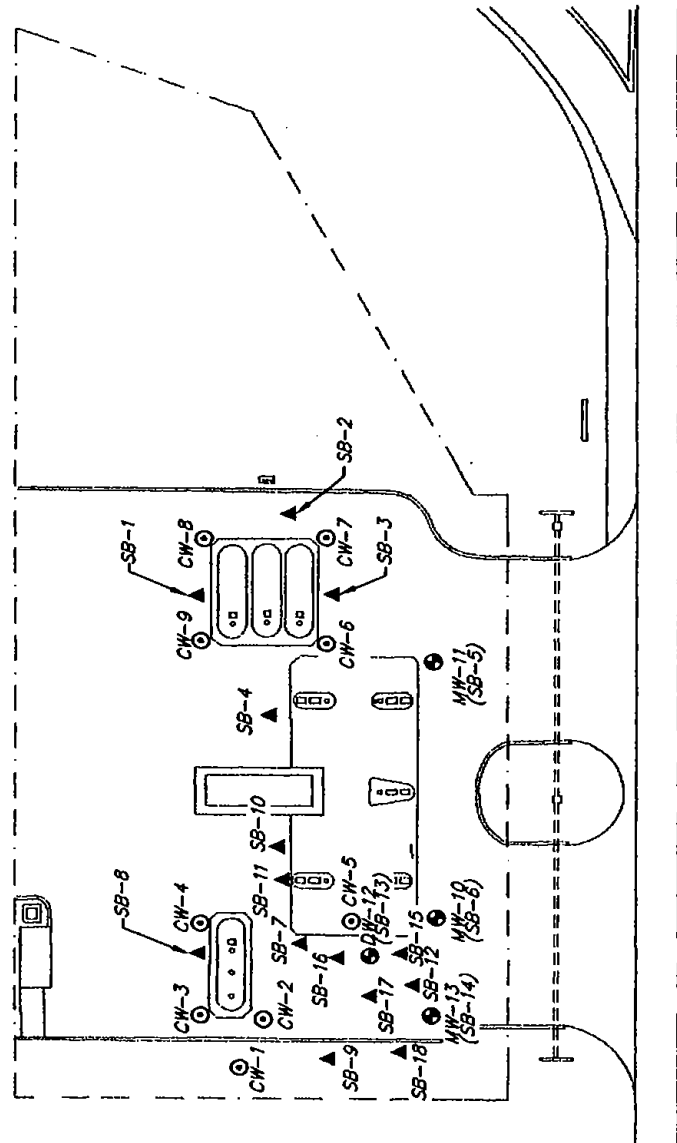


SITE MAP
 CHEVRON NO. 47128
 I-75 & STATE ROAD 54
 ZEPHYRHILLS, FLORIDA



**LOCAL LAND
USE MAP**

CHEVRON NO. 47128
I-75 & STATE ROAD 54
ZEPHYRHILLS, FLORIDA



LEGEND

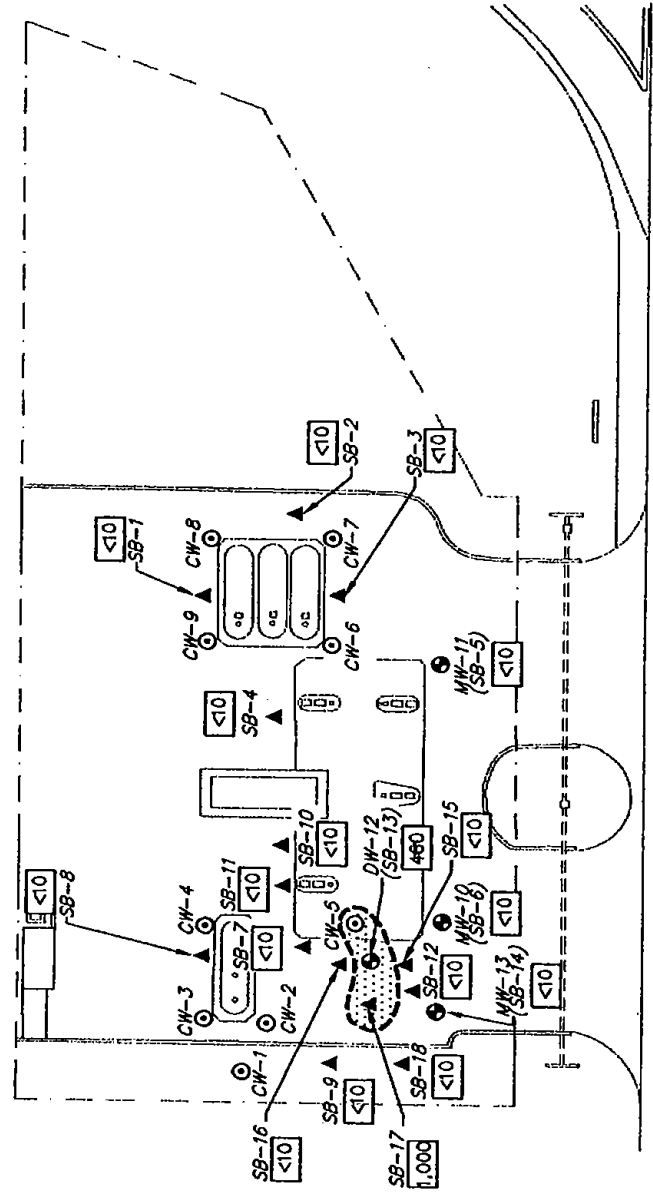
- Monitoring Well Location
- Compliance Well Location
- ▲ Soil Boring Location
- ▲ (SB-5) Soil Boring Converted To Monitoring Well



**SOIL BORING
LOCATION MAP**
I-75 & STATE ROAD 54
CHEVRON NO. 47128
ZEPHYRHILLS, FLORIDA

LEGEND

- Monitoring Well Location
- Compliance Well Location
- ▲ Soil Boring Location
- SB-1 Soil Boring Identification (SB-6)
- Monitoring Well
- OVA Result (ppm)
- Approximate Extent Of "Excessively Contaminated" Soil (OVA Greater Than 50 ppm)
- (ppm) = Parts Per Million



**ORGANIC VAPOR
ANALYSIS RESULTS
MAP**

AUGUST 10,
OCTOBER 6, 10, & 14, 1994
1-75 & STATE ROAD 54
CHEVRON NO. 47128
ZEPHYRHILLS, FLORIDA

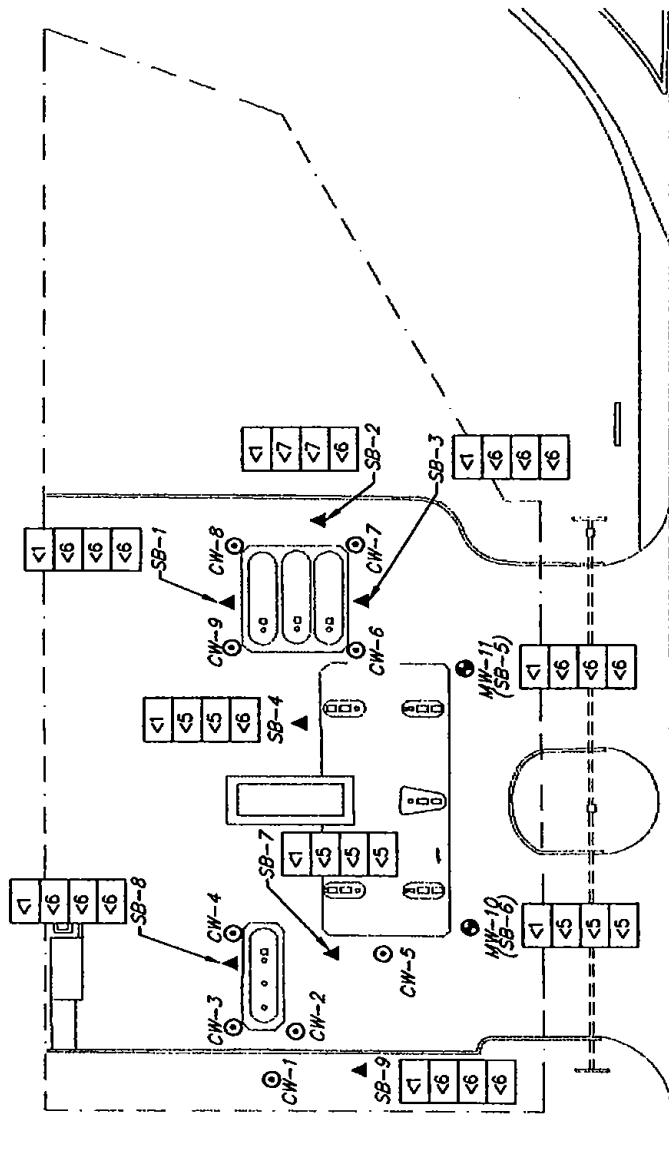
LEGEND

- Monitoring Well Location
- Compliance Well Location
- ▲ Soil Boring Location
- SB-1 Soil Boring Identification (SB-6) Soil Boring Converted To Monitoring Well

<1	<6	<6	<6
<6	<6	<6	<6
<6	<6	<6	<6
<6	<6	<6	<6

Benzene in ug/Kg
 Total VOAs in ug/Kg
 MTBE in ug/Kg
 Total VOHs in ug/Kg

ug/Kg = Micrograms Per Kilogram
 Total VOAs = Sum Of Benzene, Ethylbenzene, Toluene And Xylenes
 MTBE = Methyl Tert-Butyl Ether
 Total VOHs = Sum Of Volatile Organic Halocarbons



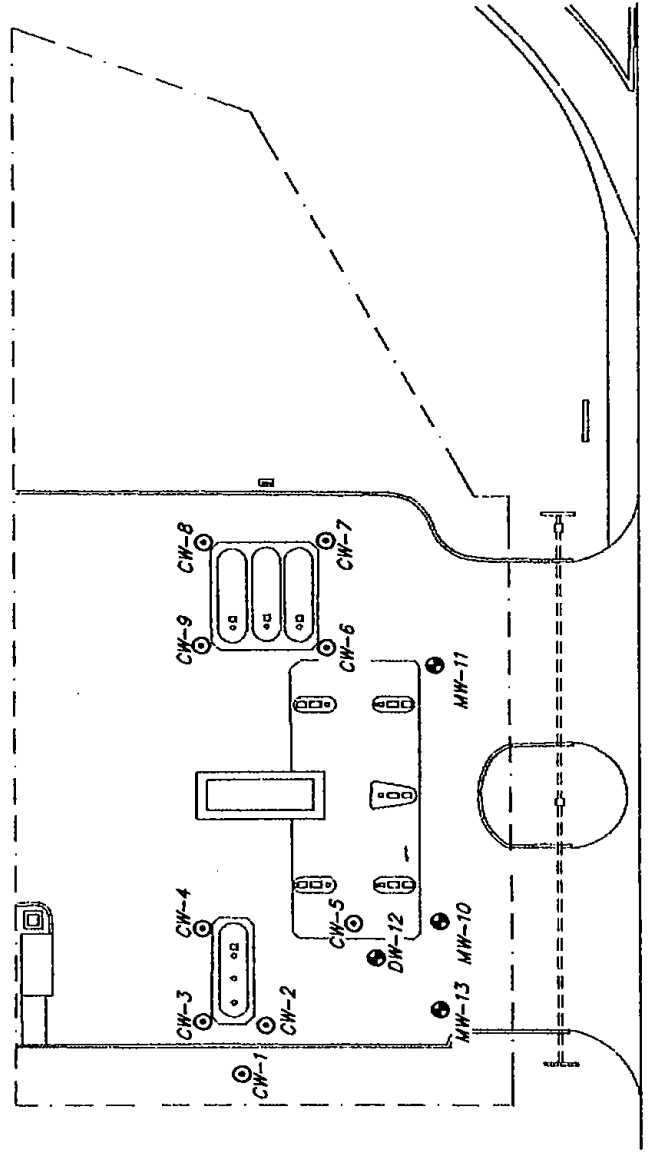
SOIL ANALYTICAL RESULTS MAP

AUGUST 10, 1994

1-75 & STATE ROAD 54

CHEVRON NO. 47128

ZEPHYRHILLS, FLORIDA



LEGEND

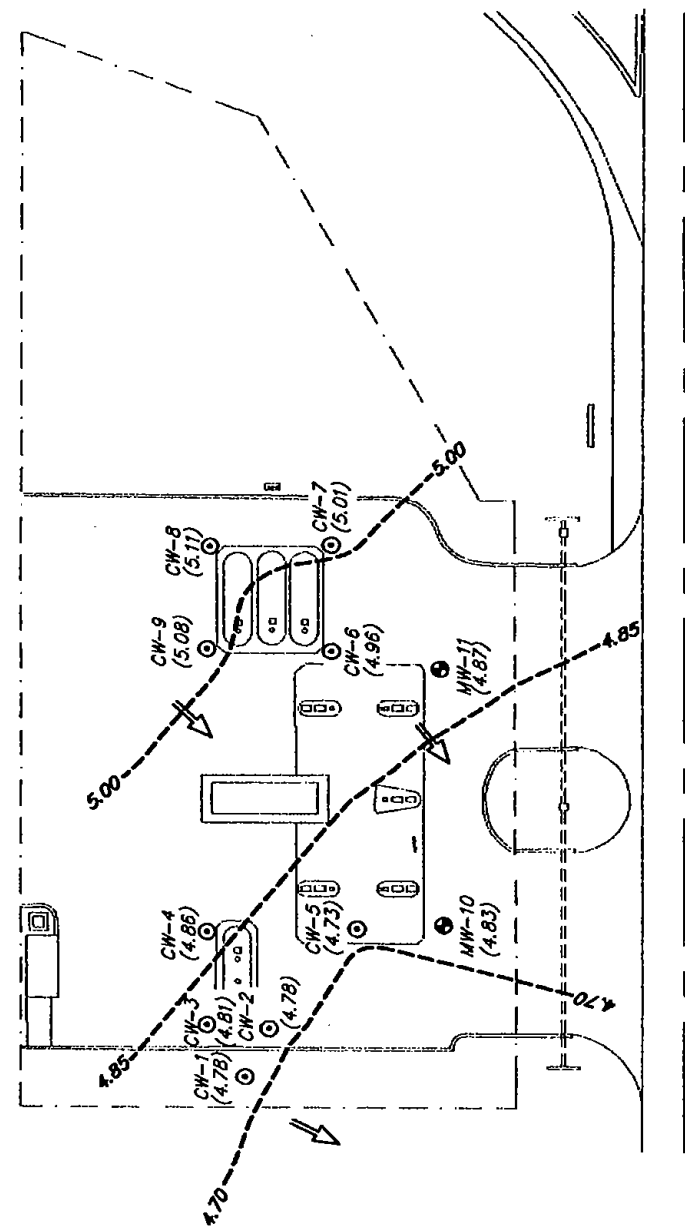
- Monitoring Well Location
- ⊙ Compliance Well Location



MONITORING WELL

LOCATION MAP

I-75 & STATE ROAD 54
 CHEVRON NO. 47128
 ZEPHYRHILLS, FLORIDA

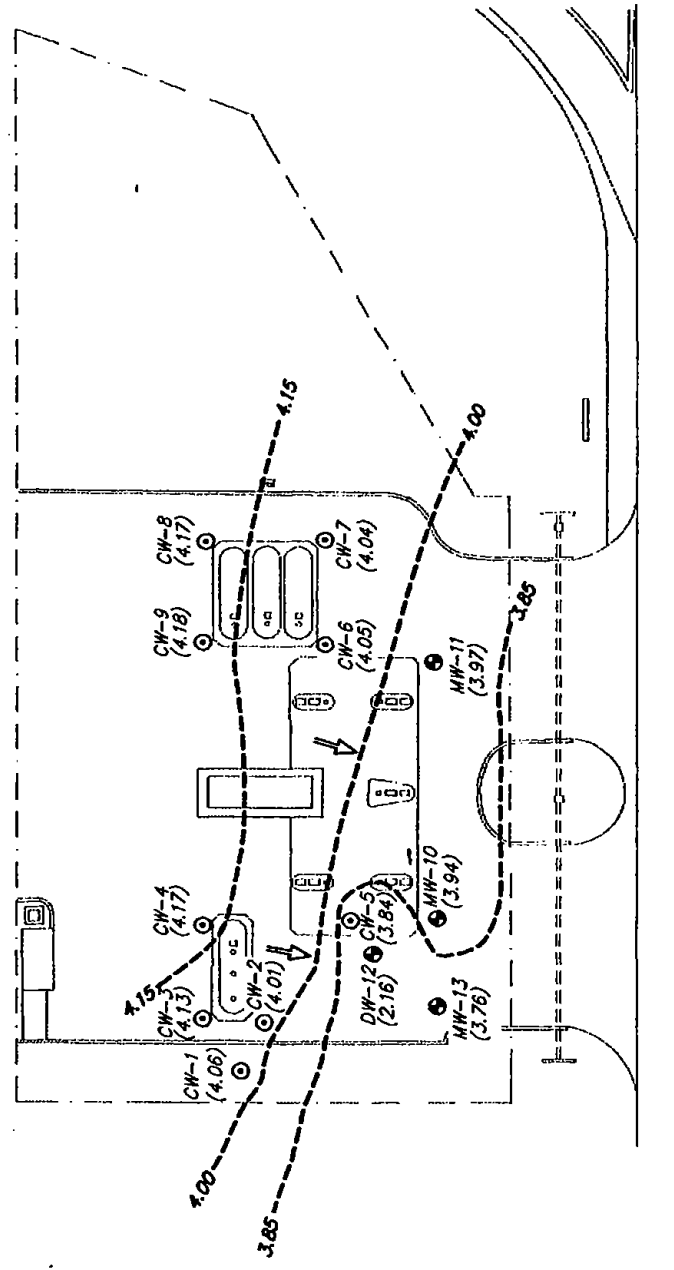


LEGEND

- Monitoring Well Location
- Compliance Well Location
- (4.96) Groundwater Elevation In Feet
- ➔ Inferred Direction Of Groundwater Flow
- 4.85 Groundwater Elevation Contour

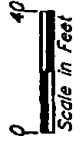


**GROUNDWATER
ELEVATION
CONTOUR MAP**
 AUGUST 12, 1994
 I-75 & STATE ROAD 54
 CHEVRON NO. 47128
 ZEPHYRHILLS, FLORIDA

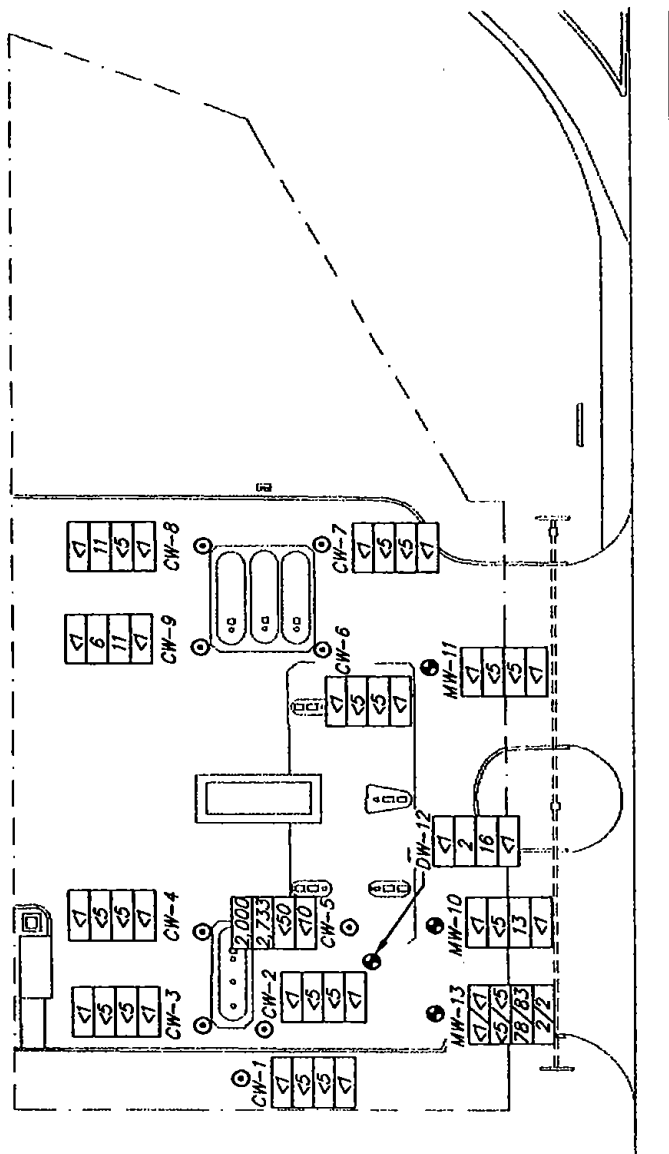


LEGEND

- Monitoring Well Location
- Compliance Well Location
- (4.01) Groundwater Elevation In Feet
- ↑ Inferred Direction Of Groundwater Flow
- 4.00 --- Groundwater Elevation Contour



**GROUNDWATER
 ELEVATION
 CONTOUR MAP**
 OCTOBER 26, 1994
 CHEVRON NO. 47128
 I-75 & STATE ROAD 54
 ZEPHYRHILLS, FLORIDA



LEGEND

● Monitoring Well Location

○ Compliance Well Location

<1 Benzene in ug/L

11 Total VOAs in ug/L

<5 MTBE in ug/L

<1 1,2-Dichloroethane in ug/L

ug/L = Micrograms Per liter

Total VOAs = Sum Of Benzene, Toluene, Ethylbenzene, And Xylenes

MTBE = Methyl Tert-Butyl Ether



**GROUNDWATER
QUALITY MAP**

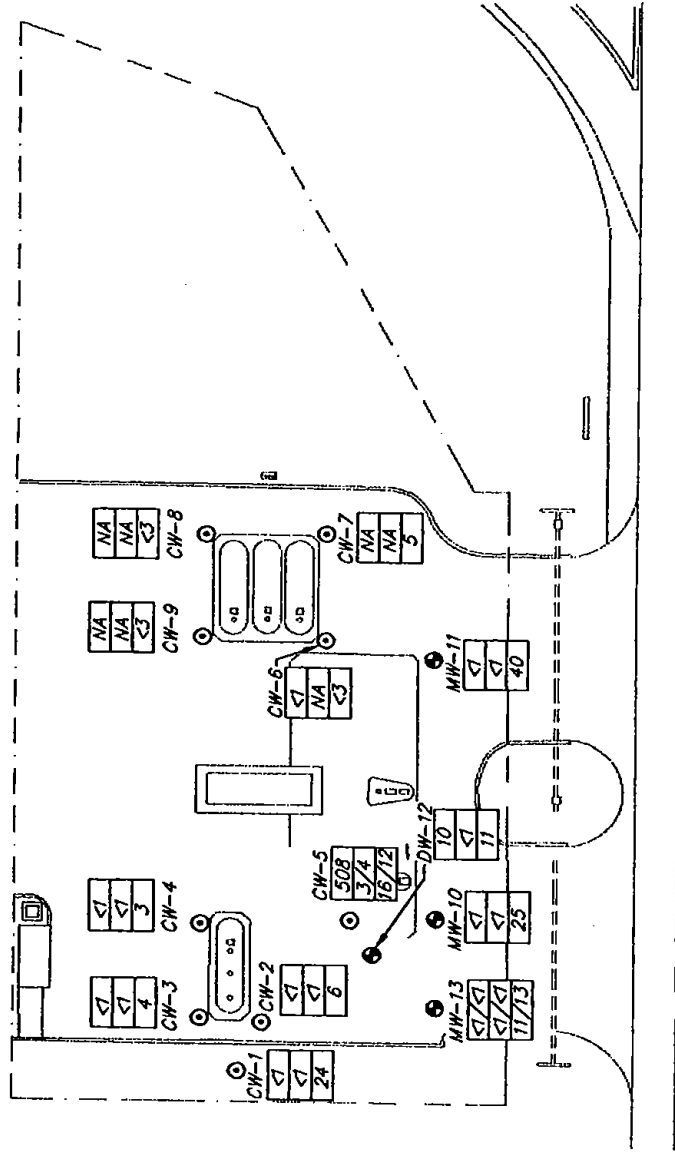
AUGUST 12, OCTOBER 14, 1994

EPA METHODS 601/602

CHEVRON NO. 47128

I-75 & STATE ROAD 54

ZEPHYRHILLS, FLORIDA



**GROUNDWATER
QUALITY MAP**

AUGUST 12, OCTOBER 14, 1994
EPA METHODS 610,239,2,418.1
CHEVRON NO. 47128
I-75 & STATE ROAD 54
ZEPHYRHILLS, FLORIDA

Gannett Fleming

NILOS INVESTMENTS, INC.
WESLEY CHAPEL, FLORIDA

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SITE ASSESSMENT REPORT

CITGO STATION
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA

FDEP ID NO. 518515078
GF PROJECT NO. 35568.011
FEBRUARY 2000

Office Location:
GANNETT FLEMING, INC.
14499 North Dale Mabry Highway, Suite 250
Tampa, Florida 33618
(813) 265-3044, (813) 265-2726 fax

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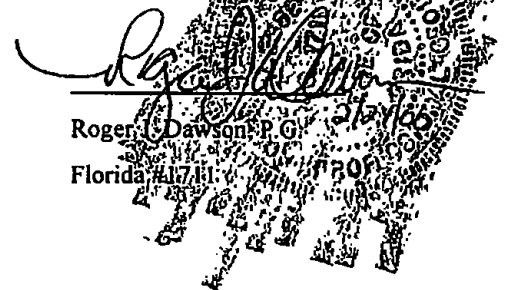
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SECTION 4 FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

FEB 28 2000

SOUTHWEST DISTRICT
TAMPA

Professional Geologist


Roger Dawson, P.G.
Florida #17131

1.0 INTRODUCTION

1.1 Introduction

Gannett Fleming, Inc. (GF) was retained by Nilos Investments, Inc. to prepare a Site Assessment Report (SAR) for the Citgo Station site, located at 27829 West State Road 54 in Wesley Chapel, Florida. The site assessment was initiated following receipt of a letter dated May 10, 1999, from the Pasco County Health Department (PCHD). The PCHD requested completion of the assessment because of the presence of petroleum hydrocarbon-impacted soil at the site, as reported on a Discharge Report Form (DRF) completed February 3, 1999. The DRF was filed following the discovery of a leak in the fuel piping at the site and the subsequent failure of a tightness test. This SAR documents the assessment activities completed to determine the horizontal and vertical extent of petroleum hydrocarbon-impacted soil and groundwater in the vicinity of the discharge.

The site assessment involved soil sampling, monitoring well installation, aquifer testing and groundwater sampling. All field investigation methods were conducted in accordance with Chapter 62-770, Florida Administrative Code (FAC), Florida Department of Environmental Protection (FDEP) guidelines, and with GF's Comprehensive Quality Assurance Plan (CompQAP) No. 920212G on file with the FDEP.

1.2 Site Description

The Citgo Station is located at 27829 West State Road 54 in Wesley Chapel, Pasco County, Florida. The site is situated on the north side of State Road 54 near the intersection of Interstate 75. Specifically, the site is located in the southeast one-quarter of the northeast one-quarter of Section 12, Township 26 South, Range 19 East (Latitude 28°14'30" North, Longitude 82°21'30" West). The site is bounded on the south by State Road 54 and on the east by Interstate 75. A Denny's restaurant

Gannett Fleming

lies to the west and a hotel lies to the north. A Site Location Map, created from the United States Geological Survey (USGS) Wesley Chapel 7.5-minute quadrangle dated (1987) is presented as Figure 1. A Site Plan is provided as Figure 2.

1.3 Site Historical Background

Information regarding the site history was gathered from documents in the site file. The records indicate that a 10,000-gallon underground storage tank (UST) containing unleaded gasoline was installed in 1979, and three 10,000-gallon gasoline USTs containing unleaded gasoline were installed in 1983. The site was declared eligible for the Early Detection Incentive (EDI) Program based upon a November 21, 1988, discharge. A Contamination Assessment Report (CAR) was submitted to FDEP on December 8, 1994, and approved on April 14, 1995. The CAR recommended that a Remedial Action Plan (RAP) be prepared. A product supply line leak was discovered in February, 1999, and a DRF was submitted to the FDEP on February 3, 1999. The PCHD sent a Site Assessment notification letter to the site owner on May 10, 1999. On June 14, 1999, a Closure Assessment Report associated with the installation of dispenser liners was submitted to the PCHD. On December 13, 1999, the FDEP granted an extension until February 29, 2000, for the completion of the SAR.

1.4 Sensitive Receptor Survey

A visual survey and review of the Southwest Florida Water Management District (SWFWMD) well inventory listings and topographic maps was conducted to identify any sensitive receptors such as underground utilities, stormwater ditches, water bodies and potable wells within a ½-mile radius of the site.

*1000 REMOVED
IN JUNE 1991
WASTE OIL*

3.0 SOIL QUALITY EVALUATION

3.1 Soil Vapor Survey

Soil borings SB-1 through SB-10 were completed using a stainless-steel hand auger or post-hole digger prior to well installation on December 3, 1999, and SB-11 through SB-13 were completed on December 9, 1999. Soil samples were collected at two-foot depth intervals to the static water table (approximately six ft bls) and placed in glass jars. The soil samples were screened with an organic vapor analyzer (OVA) and an activated carbon filter (to remove methane) to determine concentrations of petroleum hydrocarbon vapors. Petroleum hydrocarbon-impacted soil was identified in all samples from borings SB-1 through SB-7, and SB-11 through SB-13, while soil borings SB-8 through SB-10 showed no evidence of petroleum hydrocarbon impact. The soil boring locations are indicated on Figure 3. The soil vapor survey results are summarized in Table 1.

3.2 Soil Quality Sampling and Analyses

To verify the OVA results and determine the concentrations of hydrocarbon compounds in the soil, soil samples from SB-11 (five feet), SB-12 (five feet), and SB-13 (five feet) were collected for analytical testing. The samples were submitted to STL-Savannah Laboratories, Inc. (STL), Tampa, Florida, for the following analyses: Volatile Organic Aromatics (VOAs) including methyl tert-butyl ether (MTBE) by EPA Method 8021; Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270; and Total Recoverable Petroleum Hydrocarbons (TRPH) by the FL-Pro Method.

3.3 Soil Quality Results

The following compounds were detected at concentrations above laboratory detection limits in boring SB-11: benzene [15 micrograms per kilogram ($\mu\text{g}/\text{kg}$)]; and total VOAs (15 $\mu\text{g}/\text{kg}$). The

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following compounds were detected at concentrations above laboratory detection limits in boring SB-12: benzene (120,000 $\mu\text{g}/\text{kg}$), toluene (970,000 $\mu\text{g}/\text{kg}$), ethylbenzene (240,000 $\mu\text{g}/\text{kg}$), xylenes (1,600,000 $\mu\text{g}/\text{kg}$), total VOAs (2,930,000 $\mu\text{g}/\text{kg}$), acenaphthene (81 $\mu\text{g}/\text{kg}$), acenaphthylene (56 $\mu\text{g}/\text{kg}$), anthracene (80 $\mu\text{g}/\text{kg}$), benzo(a)anthracene (32 $\mu\text{g}/\text{kg}$), benzo(a)pyrene (20 $\mu\text{g}/\text{kg}$), benzo(b)fluoranthene (12 $\mu\text{g}/\text{kg}$), benzo(g,h,i)perylene (11 $\mu\text{g}/\text{kg}$), benzo(k)fluoranthene (8.6 $\mu\text{g}/\text{kg}$), chrysene (17 $\mu\text{g}/\text{kg}$), fluoranthene (30 $\mu\text{g}/\text{kg}$), fluorine (160 $\mu\text{g}/\text{kg}$), indeno(1,2,3-cd)pyrene (16 $\mu\text{g}/\text{kg}$), naphthalene (1,900,000 $\mu\text{g}/\text{kg}$), phenanthrene (140 $\mu\text{g}/\text{kg}$), pyrene (41 $\mu\text{g}/\text{kg}$), 1-methylnaphthalene (880,000 $\mu\text{g}/\text{kg}$), 2-methylnaphthalene (1,900,000 $\mu\text{g}/\text{kg}$), and TRPH [720 milligrams per kilogram (mg/kg)]. The following compounds were detected at concentrations above laboratory detection limits in boring SB-13: benzo(a)anthracene (14 $\mu\text{g}/\text{kg}$), benzo(a)pyrene (14 $\mu\text{g}/\text{kg}$), benzo(b)fluoranthene (13 $\mu\text{g}/\text{kg}$), benzo(k)fluoranthene (9.9 $\mu\text{g}/\text{kg}$), chrysene (13 $\mu\text{g}/\text{kg}$), fluoranthene (76 $\mu\text{g}/\text{kg}$), indeno(1,2,3-cd)pyrene (14 $\mu\text{g}/\text{kg}$), phenanthrene (14 $\mu\text{g}/\text{kg}$), and pyrene (21 $\mu\text{g}/\text{kg}$).

Only soil sample SB-12 contained concentrations that exceeded the FDEP Soil Cleanup Target Levels (SCTLs) for Residential Direct Exposure. SCTLs exceeded in SB-12 were benzene (SCTL = 1.1 mg/kg), toluene (380 mg/kg), naphthalene (40 mg/kg), 1-methylnaphthalene (68 mg/kg), and 2-methylnaphthalene (80 mg/kg). The soil analyses and SCTLs are summarized on Table 2 and Figure 4. The soil laboratory report is presented as Appendix B.

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2000, using an electronic interface probe. The relative top of casing elevation of each well was surveyed to a designated on-site benchmark. No measurable thicknesses of liquid-phase hydrocarbons (LPH) were detected within the wells. The direction of shallow groundwater flow was generally to the southwest on the February 10, 2000, gauging date, with a gradient of 0.004. The groundwater elevation data is summarized in Table 3. The direction of groundwater flow on February 10, 2000, is graphically depicted on Figure 5.

4.3 Groundwater Quality Sampling and Analyses

Groundwater samples were collected from the two monitoring wells and two compliance wells on December 6 and December 23, 1999, to evaluate the groundwater quality. Compliance well CW-9 was selected as an upgradient well based on historical groundwater flow. Compliance well CW-6 was selected as a side gradient well. Well MW-14 was installed as a downgradient well.

Teflon bailers and a peristaltic pump were used to collect the groundwater samples after five well casing volumes of water had been removed from each well. The samples were submitted to STL for the following analyses: VOAs including MTBE by EPA Method 8021; PAHs by EPA Method 8270; 1,2-dibromoethane (EDB) by EPA Method 504; Total Lead by EPA Method 239.2; and TRPH by the FL-Pro Method. Groundwater Sampling Data Sheets are in Appendix D.

4.4 Groundwater Quality Results

No concentrations of lead, EDB or TRPH were detected above laboratory detection limits in any of the samples. The FDEP Groundwater Cleanup Target Level (GCTL) of 1.0 microgram per liter ($\mu\text{g/L}$) for benzene was exceeded in MW-14, MW-15, CW-6 and CW-9 (9,600 $\mu\text{g/L}$, 1,700 $\mu\text{g/L}$, 530 $\mu\text{g/L}$ and 37 $\mu\text{g/L}$, respectively). The FDEP GCTL of 1,000 $\mu\text{g/L}$ for toluene was exceeded in MW-14 (15,000 $\mu\text{g/L}$). The FDEP GCTL of 50 $\mu\text{g/L}$ for MTBE was exceeded in MW-14 (8,100 $\mu\text{g/L}$). The FDEP GCTL of 20 $\mu\text{g/L}$ for naphthalene was exceeded in MW-14, MW-15 and CW-6 (260 $\mu\text{g/L}$, 94 $\mu\text{g/L}$ and 170 $\mu\text{g/L}$, respectively). The FDEP GCTL of 20 $\mu\text{g/L}$ for 1-methylnaphthalene

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was exceeded in MW-14 and CW-6 (36 $\mu\text{g/L}$ and 71 $\mu\text{g/L}$, respectively). The FDEP GCTL of 20 $\mu\text{g/L}$ for 2-methylnaphthalene was exceeded in MW-14 and CW-6 (67 $\mu\text{g/L}$ and 130 $\mu\text{g/L}$, respectively). The groundwater analyses and FDEP GCTLs are summarized in Table 4 and on Figure 6. The groundwater laboratory reports are presented in Appendix E.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A limited site assessment was completed at the site to determine the areal extent of impacted soil and groundwater in the vicinity of USTs containing unleaded gasoline. A summary of the limited site assessment findings follows:

1. The geology from the surface to 12 ft bls consists of very fine- to fine-grained quartz sand with traces of silt and clay. The surficial aquifer thickness is approximately 20 feet (SWFWMD 1988).
2. Groundwater flow was toward the south with an average hydraulic gradient of 0.004 on February 10, 2000.
3. The SWFWMD well permit inventory reports and a visual survey did not indicate the presence of domestic wells within a ¼-mile radius of the site. Several public supply wells are located within a ½-mile radius of the site. However, the subject site and surrounding commercial facilities are serviced by Pasco County municipal water supplies. The active wells within a ½-mile radius of the site are used for irrigation purposes.

The soil sample from boring SB-12 contained concentrations of petroleum hydrocarbon-related compounds that exceeded the FDEP SCTLs for residential direct exposure. The concentrations of compounds exceeding the SCTLs in SB-12 were benzene (120,000 µg/kg), toluene (970,000 µg/kg), naphthalene (1,900,000 µg/kg), 1-methylnaphthalene (880,000 µg/kg), and 2-methylnaphthalene (1,900,000 µg/kg).

Concentrations of petroleum hydrocarbon-related compounds in groundwater exceeding FDEP GCTLs were detected in monitoring wells MW-14, MW-15, CW-6, and CW-9. The FDEP GCTL

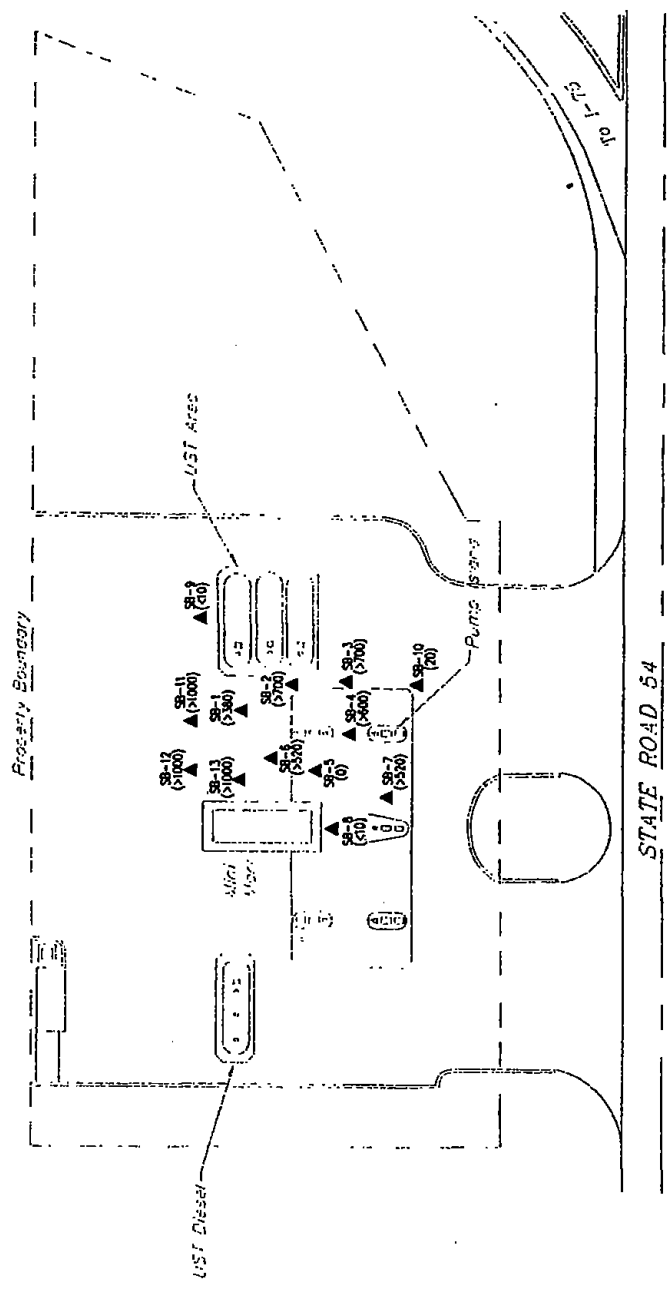
Gannett Fleming

for benzene was exceeded in MW-14, MW-15, CW-6 and CW-9 (9,600 $\mu\text{g/L}$, 1,700 $\mu\text{g/L}$, 530 $\mu\text{g/L}$ and 37 $\mu\text{g/L}$, respectively). The FDEP GCTL for toluene was exceeded in MW-14 (15,000 $\mu\text{g/L}$).

The FDEP GCTL for MTBE was exceeded in MW-14 (8,100 $\mu\text{g/L}$). The FDEP GCTL for naphthalene was exceeded in MW-14, MW-15 and CW-6 (260 $\mu\text{g/L}$, 94 $\mu\text{g/L}$ and 170 $\mu\text{g/L}$, respectively). The FDEP GCTL for 1-methylnaphthalene was exceeded in MW-14 and CW-6 (36 $\mu\text{g/L}$ and 71 $\mu\text{g/L}$, respectively). The FDEP GCTL for 2-methylnaphthalene was exceeded in MW-14 and CW-6 (67 $\mu\text{g/L}$ and 130 $\mu\text{g/L}$, respectively).

The extent of hydrocarbon-impacted groundwater has not been delineated horizontally or vertically. A region of impacted groundwater is centered around well MW-14 and the gasoline USTs. Additional assessment is necessary to determine the areal extent of impacted soil and groundwater to the south (downgradient) of the USTs. GF proposes the installation of seven soil borings with a 20-foot spacing north of the mini-mart building and gasoline USTs, and two soil borings south of the fuel dispenser islands. Soil samples should be collected at two-foot depth intervals and screened for petroleum hydrocarbon vapor concentrations with an OVA. Additionally, GF proposes to sample existing monitoring wells MW-10 and MW-11, and to install a monitoring well within the grassy island located on the southern property boundary midway between wells MW-10 and MW-11, and one well at the northwest corner of the mini-mart building. Groundwater samples from the three wells should be analyzed for VOAs by EPA Method 8260, PAHs by EPA Method 8310, and TRPH by the FL-Pro method. The proposed sampling locations are indicated on Figure 7.

Following the additional assessment activities, it may be proposed to perform the limited excavation of impacted soil identified during piping repairs and this assessment. With source removal, the likelihood of successful natural attenuation of residual groundwater impact would be greatly improved.



LEGEND

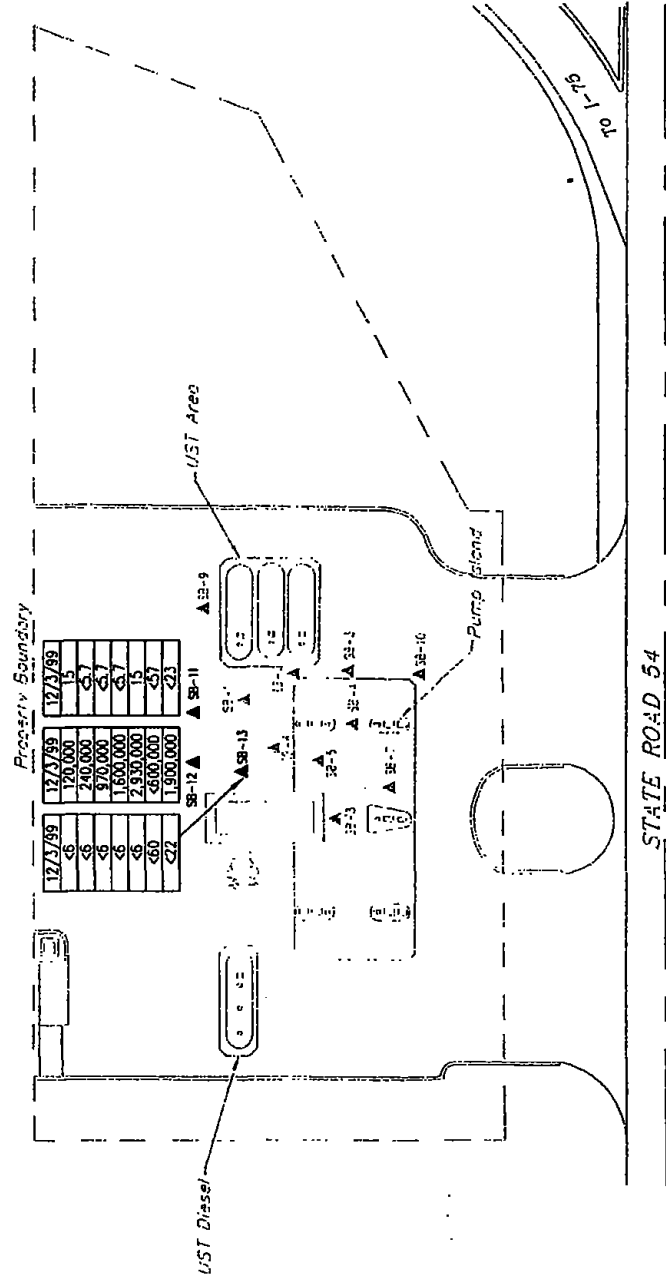
- ▲ Soil Boring
- Mini-Mort & Pump
Islands Are Not Drawn To Scale

(700) Soil Vapor Concentration (parts per million)
Soil Vapor Concentration indicated is the greatest concentration detected in any of three depth intervals sampled (0-2 feet, 2-4 feet, and 4-6 feet below land surface)



SOIL VAPOR SCREENING SUMMARY

DECEMBER 3, 1999
CITGO STATION - NII
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA



LEGEND

- ▲ Soil Boring
- Mini-Mart & Pump Islands Are Not Drawn To Scale

Soil Analytical Summary

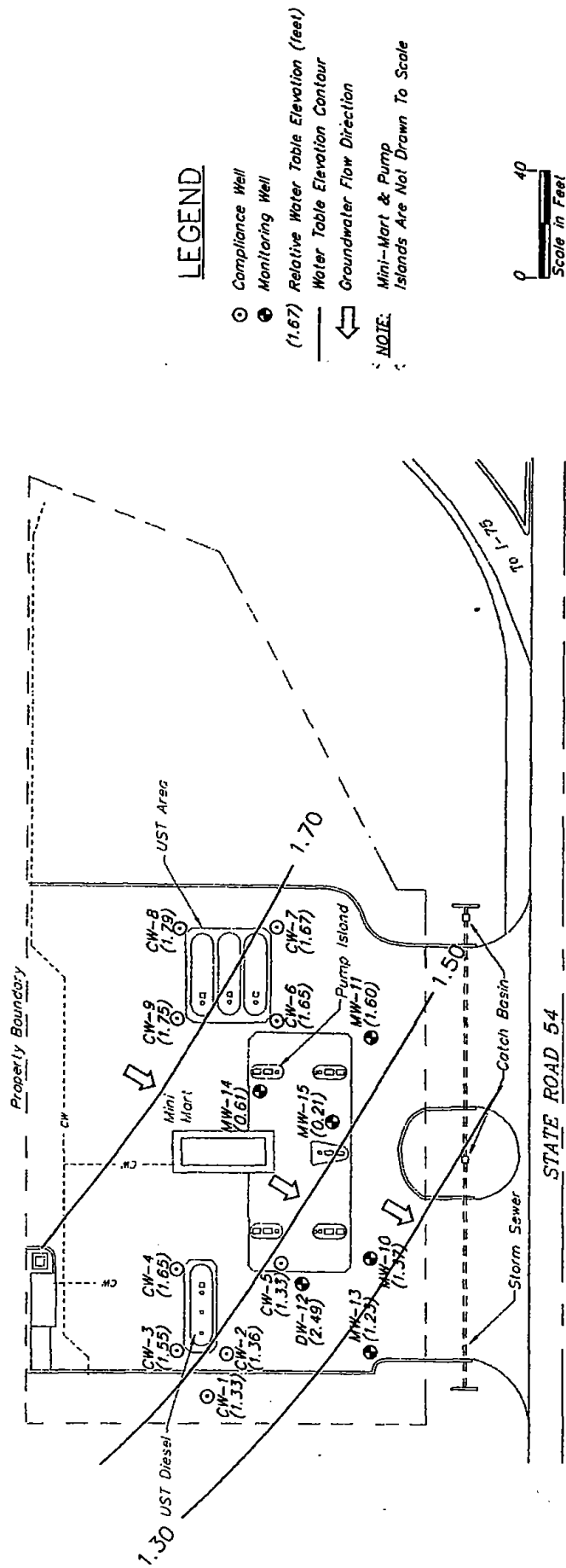
12/6/99	Sampling Date
9,600	benzene
1,500	ethylbenzene
15,000	toluene
8,700	total xylenes
34,800	total VOAs
8,100	MTBE
280	naphthalene

All concentrations in ug/kg

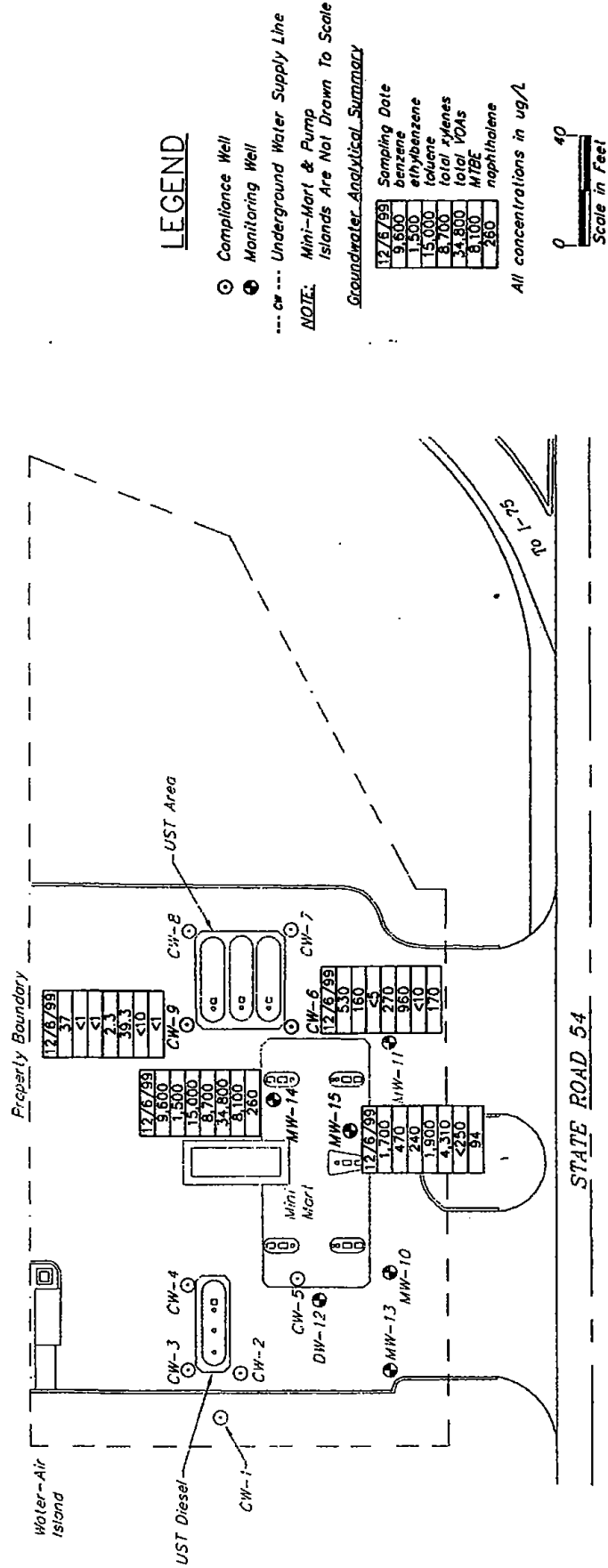


SOIL ANALYTICAL SUMMARY

DECEMBER 3, 1999
CITGO STATION - NII
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA



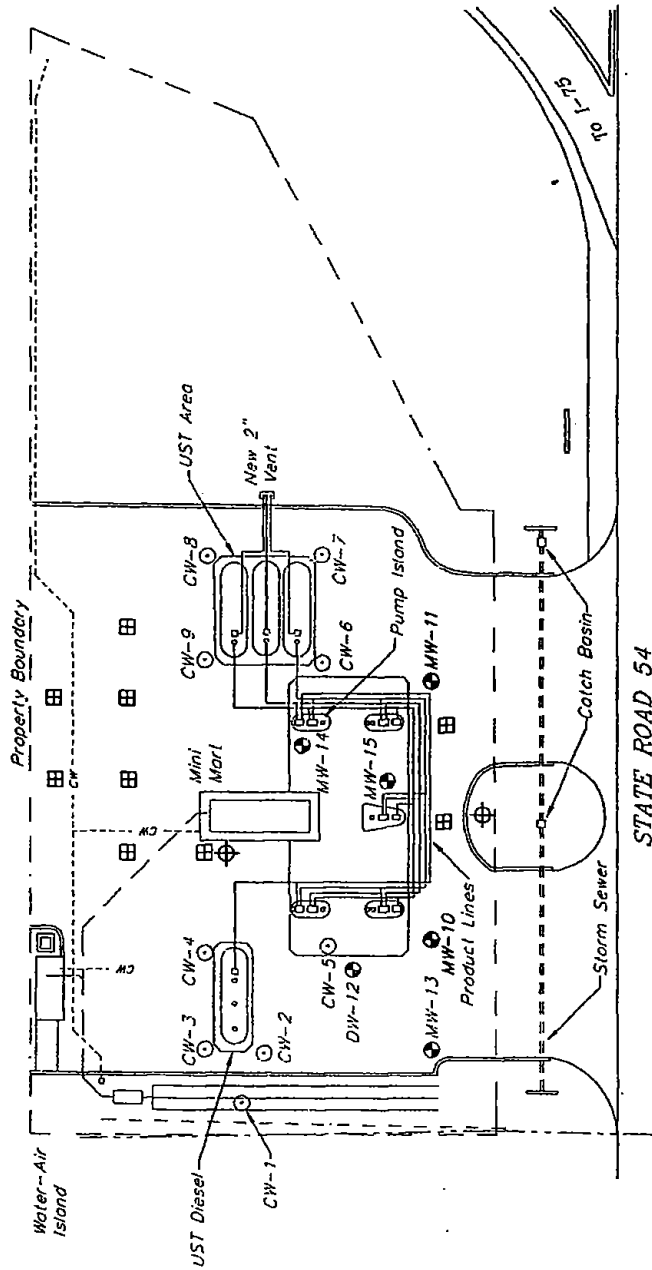
GROUNDWATER FLOW DIRECTION
FEBRUARY 10, 2000
CITGO STATION - NII
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA



GROUNDWATER ANALYTICAL SUMMARY

DECEMBER 6, 1999
CITGO STATION - NII
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA

Garrett Fleming
FIGURE 7



LEGEND

- ⊙ Existing Compliance Well
- ⊕ Existing Monitoring Well
- ⊞ Proposed Soil Sampling Location
- ⊕ Proposed Monitoring Well
- CW --- Underground Water Supply Line
- NOTE: Mini-Mart & Pump Islands Are Not Drawn To Scale



PROPOSED SAMPLING LOCATIONS

CITGO STATION - NII
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA





Gannett Fleming

February 20, 2002
File No. 38741.002

GANNETT FLEMING, INC.
WestLake Corporate Center
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9119 Corporate Lake Drive
Tampa, FL 33634
Office: (813) 882-4366
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Mr. Richard A. Dunn, P.G.
Florida Department of Environmental Protection
Bureau of Petroleum Storage Systems
WRS Petroleum Cleanup Section Five
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RECEIVED BY

11 2 2002

TEAM 5

Re: Supplemental Site Assessment ~~Addendum~~
Citgo - NII
27829 West State Road 54
Wesley Chapel, Pasco County, Florida
FDEP ID No. 518515078
FDEP Work Order No. 2001-95-0819

ORIGINAL

ENTERED

Dear Mr. Dunn:

Gannett Fleming, Inc. (GF), on behalf of Nilos Investments, Inc., respectfully submits this report of field investigations performed at the above referenced site. The Supplemental Site Assessment investigations were completed under the Florida Department of Environmental Protection (FDEP) Pre-Approval Program, in accordance with Work Order No. 2001-95-0819 (November 29, 2001). The supplemental assessment was proposed following receipt of your Deliverable Review and Proposal Request letter, dated July 18, 2001. Additionally, Verbal Change Orders were approved by the FDEP for the installation of an additional vertical extent monitoring well (approved January 11, 2002) and for the collection of four groundwater samples using a Geoprobe device (approved February 7, 2002). The FDEP requested completion of the additional assessment activities because the horizontal and vertical extent of petroleum hydrocarbon-impacted soil and groundwater, arising from two separate discharges at the site, had not been defined. This Site Assessment Report (SAR) documents the assessment activities completed to determine the horizontal and vertical extent of petroleum hydrocarbon-impacted soil and groundwater in the vicinity of the February 1999 discharge. The site assessment involved soil sampling, monitoring well installation, and

Continued...

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Mr. Richard A. Dunn, P.G.
Florida Department of Environmental Protection
February 20, 2002

- 3 -

for laboratory analysis. The smear zone sample was collected with a hand auger from the location of vertical extent well DW-21 at a depth of nine feet bls on January 15, 2002. All four samples were submitted to U.S. Biosystems, Inc. (USB), Boca Raton, Florida, for the following analyses: Volatile Organic Aromatics (VOAs) including Methyl Tert-Butyl Ether (MTBE) by EPA Method 8021; Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270; and Total Recoverable Petroleum Hydrocarbons (TRPHs) by the Florida Petroleum Range Organics (FL-PRO) Method.

Soil Quality Results

The reported concentrations of five compounds exceeded the FDEP Soil Cleanup Target Levels (SCTLs) for Residential Direct Exposure, while the concentrations of five other compounds exceeded the FDEP SCTLs for Leachability to groundwater. In well DW-20, the concentrations of benzene [2.90 milligrams per kilogram (mg/kg)] and TRPHs (1,800 mg/kg) exceeded FDEP SCTLs for Residential Direct Exposure; while the concentrations of benzene (2.90 mg/kg), TRPHs (1,800 mg/kg), toluene (100 mg/kg), ethylbenzene (59 mg/kg), total xylenes (350 mg/kg), naphthalene (18 mg/kg), 1-methylnaphthalene (7.7 mg/kg), and 2-methylnaphthalene (16 mg/kg) exceeded FDEP SCTLs for Leachability to groundwater. In well DW-21, the concentrations of benzene (56 mg/kg), toluene (1,000 mg/kg), and TRPHs (2,600 mg/kg) exceeded FDEP SCTLs for Residential Direct Exposure; while the concentrations of benzene (56 mg/kg), toluene (1,000 mg/kg), ethylbenzene (190 mg/kg), total xylenes (1,900 mg/kg), naphthalene (15 mg/kg), 1-methylnaphthalene (6.2 mg/kg), and 2-methylnaphthalene (11 mg/kg) exceeded FDEP SCTLs for Leachability to groundwater.

The reported concentrations of all other compounds were either below their respective SCTL or were below laboratory detection limits. The soil analytical results and SCTLs are summarized in Table 2 and on Figure 4. The soil laboratory report is presented as Appendix A.

Continued...

Gannett Fleming

Mr. Richard A. Dunn, P.G.
Florida Department of Environmental Protection
February 20, 2002

- 7 -

following analyses: VOAs including MTBE by EPA Method 8021; PAHs by EPA Method 8270; and TRPHs by the FL-PRO Method. Groundwater Sampling Data Sheets are in Appendix C.

Geoprobe Groundwater Sampling and Analysis

On February 11, 2002, Wombat Environmental, Inc. (Wombat), Stuart, Florida, completed four soil borings surrounding the location of the February 1999 discharge, using a Geoprobe Direct Push Technology (DPT) drilling rig. Groundwater samples were collected at depths of 25 feet bls, using the Geoprobe water sampling attachment. The samples were placed into laboratory supplied containers and submitted to USB for the following analyses: VOAs including MTBE by EPA Method 8021; PAHs by EPA Method 8270; and TRPHs by the FL-PRO Method.

Groundwater Quality Results

Concentrations of benzene, toluene, ethylbenzene and xylenes exceeding FDEP Groundwater Cleanup Target Levels (GCTLs) were reported. The GCTL for benzene [1.0 microgram per liter ($\mu\text{g/L}$)] was equaled or exceeded in MW-18 (1.00 $\mu\text{g/L}$) and DW-20 (87 $\mu\text{g/L}$). The GCTL for toluene (40 $\mu\text{g/L}$) was exceeded in DW-20 (300 $\mu\text{g/L}$). The GCTL for ethylbenzene (30 $\mu\text{g/L}$) was exceeded in DW-20 (62 $\mu\text{g/L}$). The GCTL for xylenes (20 $\mu\text{g/L}$) was exceeded in DW-20 (380 $\mu\text{g/L}$).

The concentration of benzene in Geoprobe sample GB-24 (2.00 $\mu\text{g/L}$) exceeded the GCTL. No other compounds were detected in the Geoprobe samples at concentrations exceeding their GCTLs.

Other analyte concentrations exceeding laboratory detection limits were reported in the groundwater samples collected from the wells and Geoprobe borings. However, these reported concentrations

Continued...

Gannett Fleming

Mr. Richard A. Dunn, P.G.
Florida Department of Environmental Protection
February 20, 2002

- 8 -

did not exceed the GCTLs. The groundwater analyses and FDEP GCTLs are summarized in Table 4 and on Figure 8. The groundwater laboratory reports are presented in Appendix D.

Conclusions and Recommendations

A Supplemental Site Assessment was completed at the site to determine the areal extent of impacted soil and groundwater due to two historical releases of petroleum hydrocarbons, dated 1988 and 1999. A summary of the supplemental site assessment findings follows:

1. The geology from the surface to approximately 26 feet bls consists of fine- to very fine-grained sandy silt with traces of clay. Sandy blue to green marine clay is present from 26 feet to 36 feet bls, which fractured porous limestone from 36 feet to at least the maximum depth of investigation (40 feet bls). The surficial aquifer thickness is approximately 26 feet based upon this investigation, which approximates published data from the Southwest Florida Water Management District (SWFWMD).
2. Groundwater flow was toward the southwest with an average hydraulic gradient of 0.004 on December 20, 2001.
3. Four soil borings were installed and screened at two-foot depth intervals with an OVA/FID. The highest reported concentrations of petroleum hydrocarbon-related vapors are from samples collected in the center of the site adjacent to the fuel dispenser islands.
4. A "smear zone" of impacted soil located within the fluctuation range of the static water table was identified at the site, extending from approximately six to 13 feet bls.

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Gonnett Fleming

Mr. Richard A. Dunn, P.G.
Florida Department of Environmental Protection
February 20, 2002

- 9 -

5. Four soil samples, from the depth intervals producing the highest, moderate and lowest OVA response on December 17, 2001, as well as a smear zone sample collected on January 15, 2002, were analyzed for petroleum hydrocarbon-related compounds.
6. Concentrations of several compounds exceeding the FDEP SCTL for Residential Direct Exposures were reported in soil samples from DW-20 and DW-21; including benzene, toluene, and TRPHs. Concentrations of the following compounds exceeded FDEP SCTLs for Leachability in DW-20 and DW-21: ethylbenzene, total xylenes, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. The concentrations of benzo(a)pyrene and dibenzo(a,h)anthracene in the soil sample from MW-19 exceeded FDEP SCTLs for Residential Direct Exposure.
7. Monitoring wells MW-18, MW-19, DW-20 and DW-21 were sampled and analyzed for petroleum hydrocarbon-related compounds. The FDEP GCTL for benzene was equaled or exceeded in the samples from wells MW-18 and DW-20. The sample from DW-20 also exceeded the FDEP GCTLs for toluene, ethylbenzene, and xylenes.
8. Four Geoprobe borings (GB-22 through GB-25) were completed to depths of 25 feet bls and a groundwater sample was collected from each. The FDEP GCTL for benzene was slightly exceeded in Geoprobe sample GB-24, located adjacent to and west of the current UST area.

The horizontal and vertical extent of petroleum hydrocarbon-impacted soil and groundwater has been defined at the site downgradient from the points of historical petroleum releases. Data from the current soil analyses was compared with historical soil analytical data to determine the areal extent of impacted soil. The horizontal extent of impacted soil upgradient from the locations of the reported releases is assumed to be approximately to the southern wall of the new convenience store building.

Continued...

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Mr. Richard A. Dunn, P.G.
Florida Department of Environmental Protection
February 20, 2002

- 10 -

Historical groundwater analytical data was compared with the current analytical data to determine the areal extent of impacted groundwater. A line delineating benzene concentrations in groundwater of less than 1 µg/L from the June 2001, Supplemental Site Assessment Report (SSAR) is presented on Figure 7; this line comprises the entire area beneath the station canopy and the western one-half of the underground storage tank (UST) area. A vertical extent well (DW-12) was installed during previous investigations, immediately downgradient of the location of the 1988 petroleum release. Laboratory analysis of groundwater from this well indicated that current concentrations of the compounds of concern are all below laboratory detection limits. Vertical extent well DW-20, screened from 20 to 25 feet bls, contained petroleum hydrocarbon-impacted groundwater above FDEP GCTLs, while vertical extent well DW-21, screened from 35 to 40 feet bls, was not impacted in excess of FDEP GCTLs.

Based upon the elevated concentrations of petroleum hydrocarbon-related compounds in soil and groundwater, it is the opinion of GF that a Remedial Action Plan (RAP) be prepared to address these concerns. The RAP will be prepared by a Professional Engineer registered in Florida, and will detail our strategy for the remediation of soil and groundwater at the site.

GF appreciates your cooperation in this matter. Should you have any questions or comments regarding this project, please do not hesitate to contact me.

Respectfully submitted,

GANNETT FLEMING, INC.

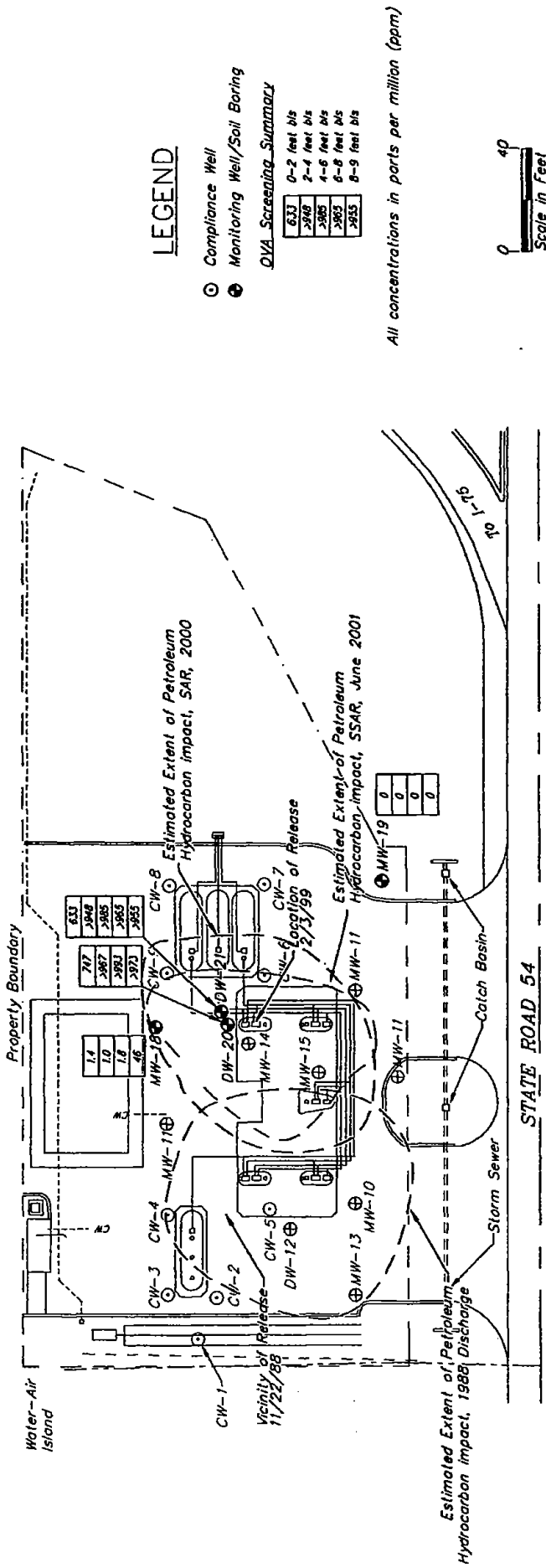

2/21/02 Roger J. Dawson, P.G.
Registered, Florida #1711

cc: Mr. Nilos Korodimas, Nilos Investments, Inc.

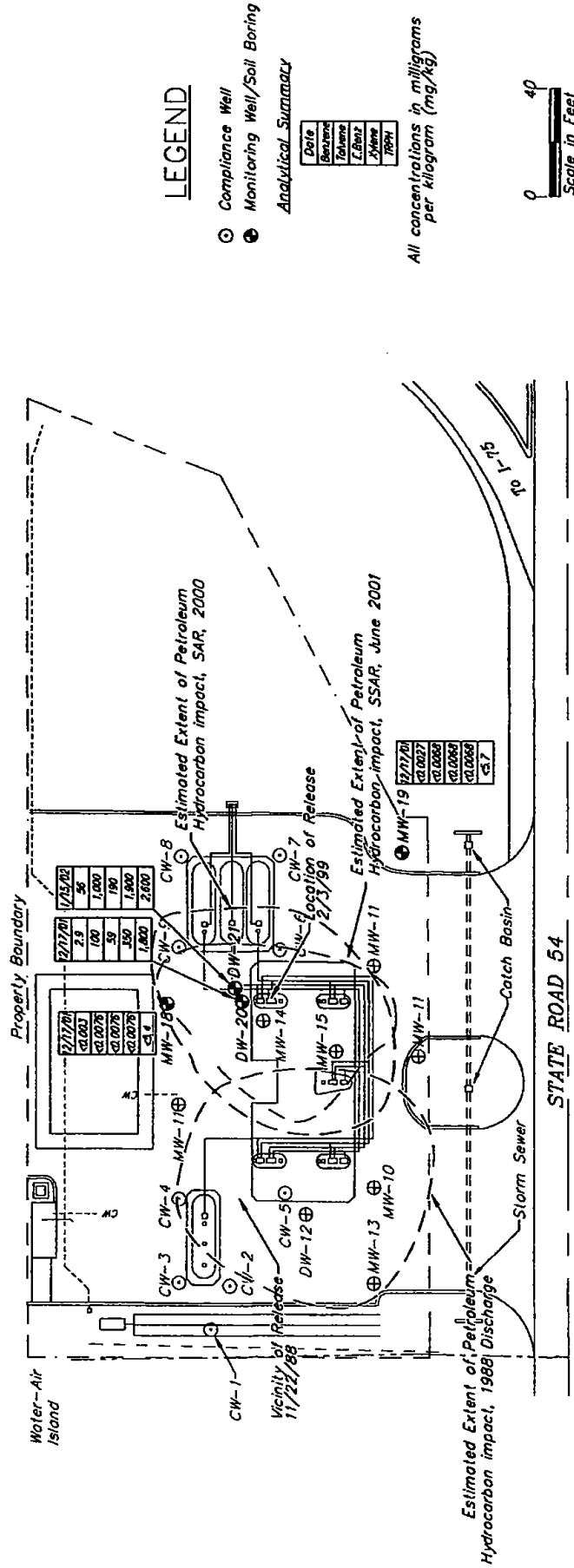
SAR APPROVAL LETTER

DATED 3/12/02.
RECOMMEND RAP. ✓



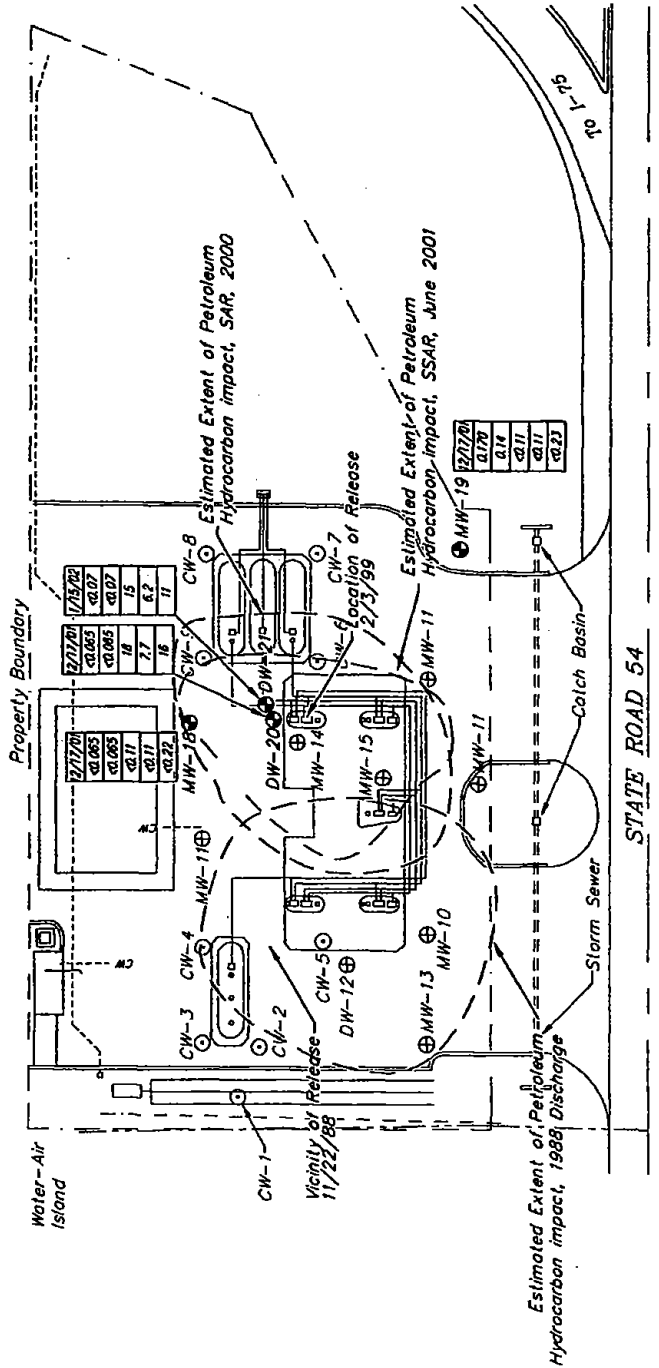


OVA SCREENING SUMMARY
 DECEMBER 17, 2001 & JANUARY 15, 2002
 CITGO STATION - NII
 27829 WEST STATE ROAD 54
 WESLEY CHAPEL, FLORIDA



**SOIL ANALYTICAL SUMMARY
VOAS and TRPH**

DECEMBER 17, 2001 & JANUARY 15, 2002
CITGO STATION - NH
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA

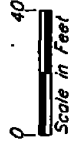


LEGEND

- Compliance Well
 - ⊕ Monitoring Well/Soil Boring
- Analytical Summary

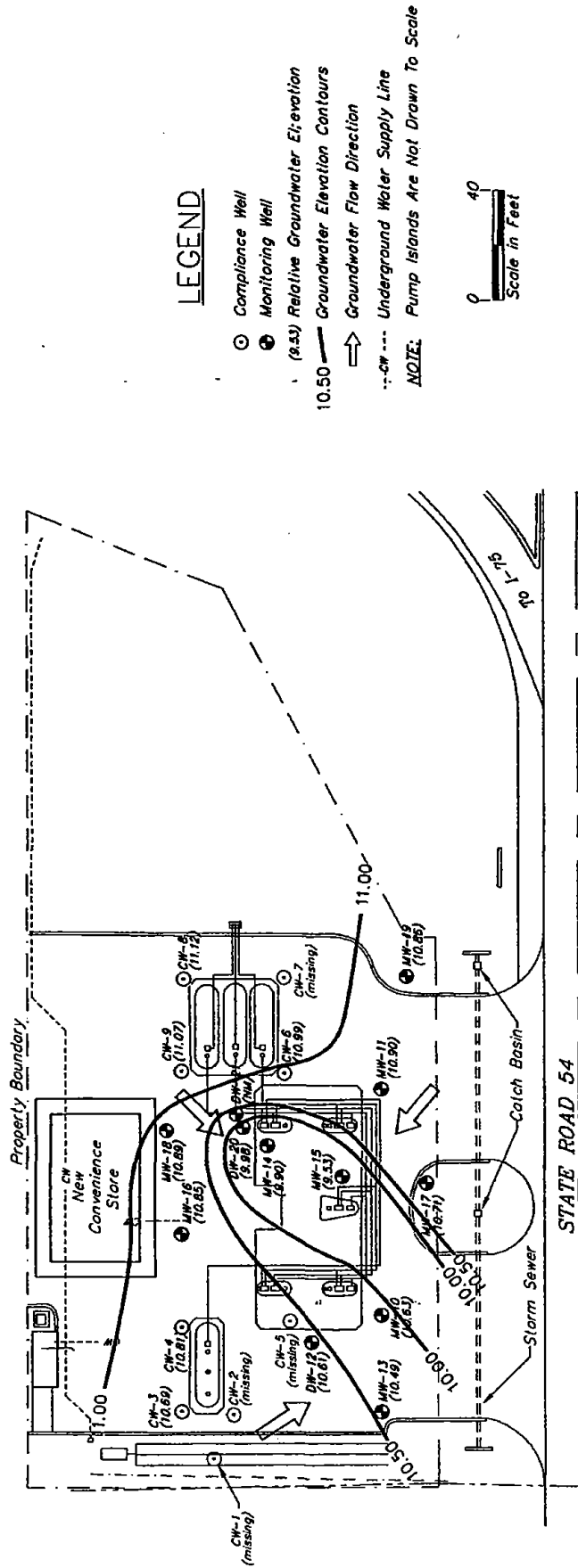
Date	Acetylene	Acetylene	Acetylene	Acetylene	Acetylene	Acetylene	Acetylene
1-19-00							
2-16-00							

All concentrations in milligrams per kilogram (mg/kg)

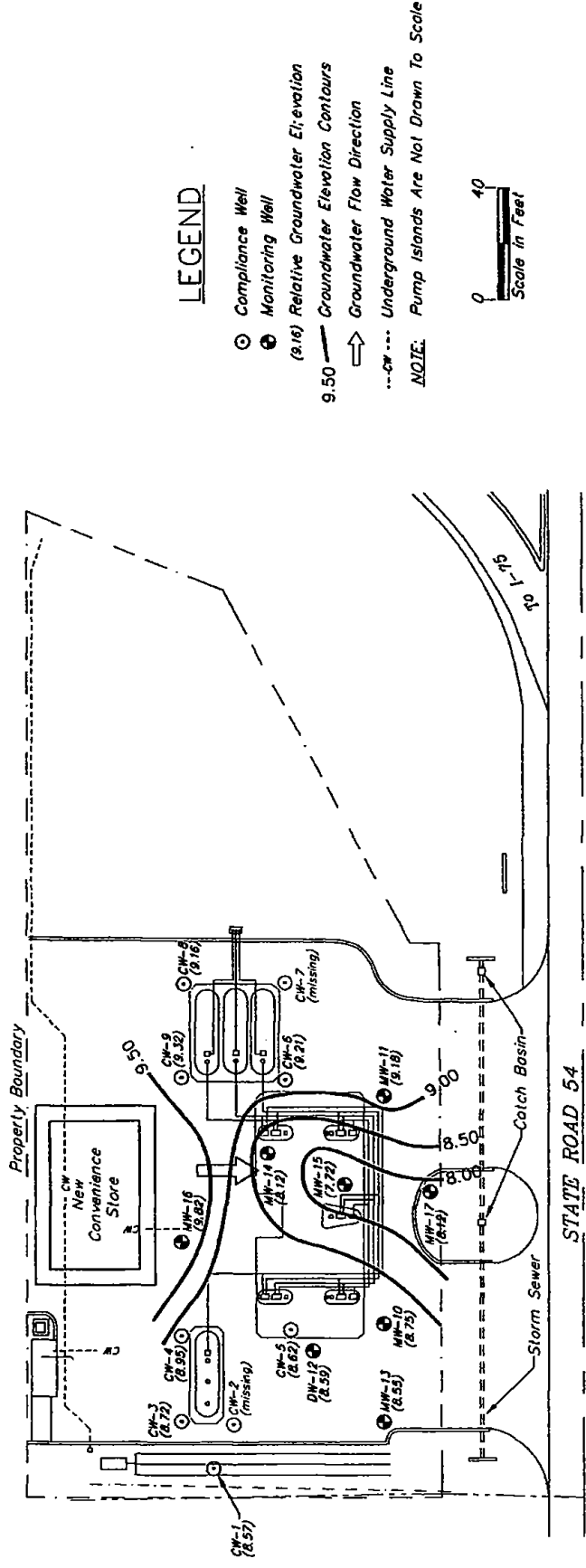


SOIL ANALYTICAL SUMMARY
PAHs

DECEMBER 17, 2001 & JANUARY 15, 2002
CITGO STATION - NJ
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA

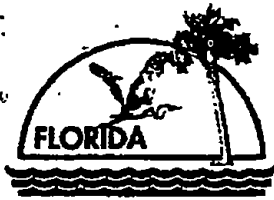


GROUNDWATER ELEVATION MAP
DECEMBER 20, 2001
CITGO STATION - NII
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA



GROUNDWATER ELEVATION MAP

APRIL 12, 2001
CITGO STATION - NJI
27829 WEST STATE ROAD 54
WESLEY CHAPEL, FLORIDA



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

March 12, 2002

Mr. Roger J. Dawson, P.G.
Gannett Fleming, Inc.
Westlake Corporate Center
9119 Corporate Lake Drive, Suite 150
Tampa, Florida 33634

Subject: Deliverable Review, Site Assessment Approval and Proposal Request
Citgo-NII Station
27829 West State Road 54
Wesley Chapel, Pasco County, Florida
FDEP Facility ID# 51-8515078
Work Order No. 2001-95-0819

Dear Mr. Dawson:

The Bureau of Petroleum Storage Systems has reviewed the Supplemental Site Assessment Report dated February 20, 2002 (received March 1, 2002), submitted for the discharge discovered on November 21, 1988, at this site. The report is acceptable and demonstrates that the work outlined in Work Order #2001-95-0819 was satisfactorily performed. You may submit an invoice for the balance of the Work Order including retainage.

We found all the documents submitted to date to be adequate to meet the site assessment requirements of Rule 62-770.600, Florida Administrative Code (F.A.C.). Therefore, a Remedial Action Plan (RAP) in accordance with Rule 62-770.700, F.A.C. should be prepared for this site.

Please send a copy of the approved assessment documents to Ken Weber of the Southwest Florida Water Management District within 30 days of receiving this approval letter.

A proposal to prepare the needed RAP needs to be submitted to me at the letterhead address, Mail Station 4585. Remember that if the proposed remedial strategy has not yet been identified it is strongly recommended that preliminary RAP discussions be held before the RAP proposal is submitted, to better facilitate the work order negotiations.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"
Visit Our Internet Site At: www.dep.state.fl.us/dwm/bureaus/bpss.htm
Printed on recycled paper.

Mr. Röger J. Dawson, P.G.
FDEP Facility ID# 51-8515078
March 12, 2002
Page two

If you should have any questions concerning the site assessment review or the needed proposal, please contact me at (850) 222-6446, ext. 254 or at the letterhead address, Mail Station 4585.

Sincerely,



Richard A. Dunn, P.G. #1509
WRS Senior Geologist
Petroleum Cleanup Section 5
Bureau of Petroleum Storage Systems
E-mail: rdunn@wrsie.com

3/12/2002
Date



Shawn L. Abbott
Environmental Manager
Petroleum Cleanup Section 5
Bureau of Petroleum Storage Systems

cc: Nilos Korodimas, Nilos Investments, Inc., 27829 West SR 54, Wesley Chapel, FL 33543
File

Site No. 22 – Denny’s-Master’s Economy Inn



Site No. 22 – Denny's–Master's Economy Inn



Site No. 22 – Denny's–Master's Economy Inn



Site No. 22 – Denny’s–Master’s Economy Inn

JAN 24 1994

January 6, 1994

Technical Review Section

Contamination Assessment Report
Master's Economy Inn
27807 State Road 54
Wesley Chapel, Florida

Facility I.D. #: 519201573

HY-TECH Environmental Services, Inc.
Project # 92-0307

Submitted by: Frank M. Swanson (CH)
Frank M. Swanson, Project Manager

Reviewed by: Michael R. Bateman
Michael R. Bateman, Vice President of Operations

Prepared for: HLC Properties
P.O. Box 13069
Savannah, Georgia 31416

Prepared by: HY-TECH Environmental Services, Inc.
1106 N. Forbes Road
Plant City, Florida

Jack Hamilton
1-19-94

1.0 Introduction

The following is a Contamination Assessment Report(CAR) prepared for the Master's Economy Inn facility located at 27807 State Road 54,.in Wesley Chapel, Florida.

1.1 Background

In 1987 underground storage tanks were removed from the facility. Since this was before HLC Properties purchased the site (1990), records detailing the tanks' history are scarce. It is believed that the tanks were used to store unleaded gasoline. A dispenser island housing an unknown number of pumps was located directly in front of what is now the main entrance to the motel office. The dispensers and associated piping, as well as a significant amount of contaminated soil, were removed in May, 1991. Subsequently, based on a visual inspection during the soil removal, an advisory notice was issued from the Pasco County Public Health Unit requiring initiation of a Contamination Assessment Report (CAR). Immediately adjacent to the East and West of the Master's Inn are Chevron and Amoco retail gasoline stations, respectively. Groundwater contamination has been documented at both of these sites, and each has been accepted into the State of Florida's Early Detection Incentive program (EDI) as of June 7, 1990.

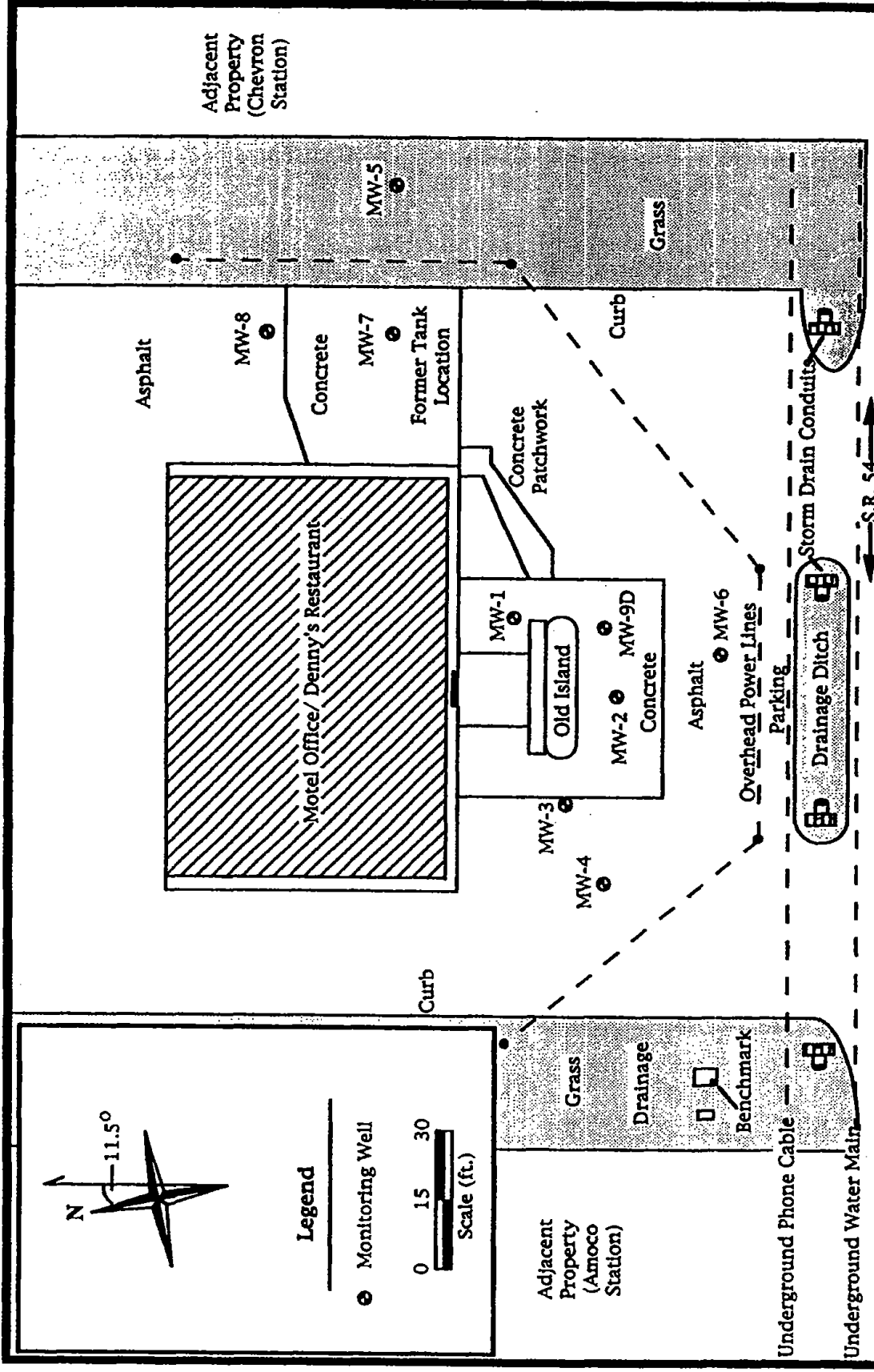
1.2 Site Location

The Master's Inn facility is located in southern Pasco County in an area of small-business commercial tracts, with few residential properties. It is bordered to the East by a Chevron station, and to the West by an Amoco station. To the North, and across State Road 54 to the South, is undeveloped acreage. The facility location is within the Wesley Chapel quadrangle(USGS) topographic map in the SE 1/4, of the NE 1/4 of Section 12, Township 26 S, Range 19 E (see Figure 1).

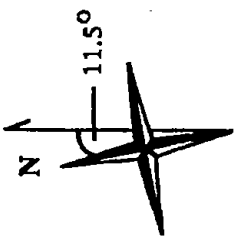
1.3 Report Objectives

The objectives of this report are to:

- Summarize local hydrogeologic conditions.
- Delineate the areal and vertical extent of dissolved hydrocarbons in the groundwater.
- Make recommendations based on data gathered.

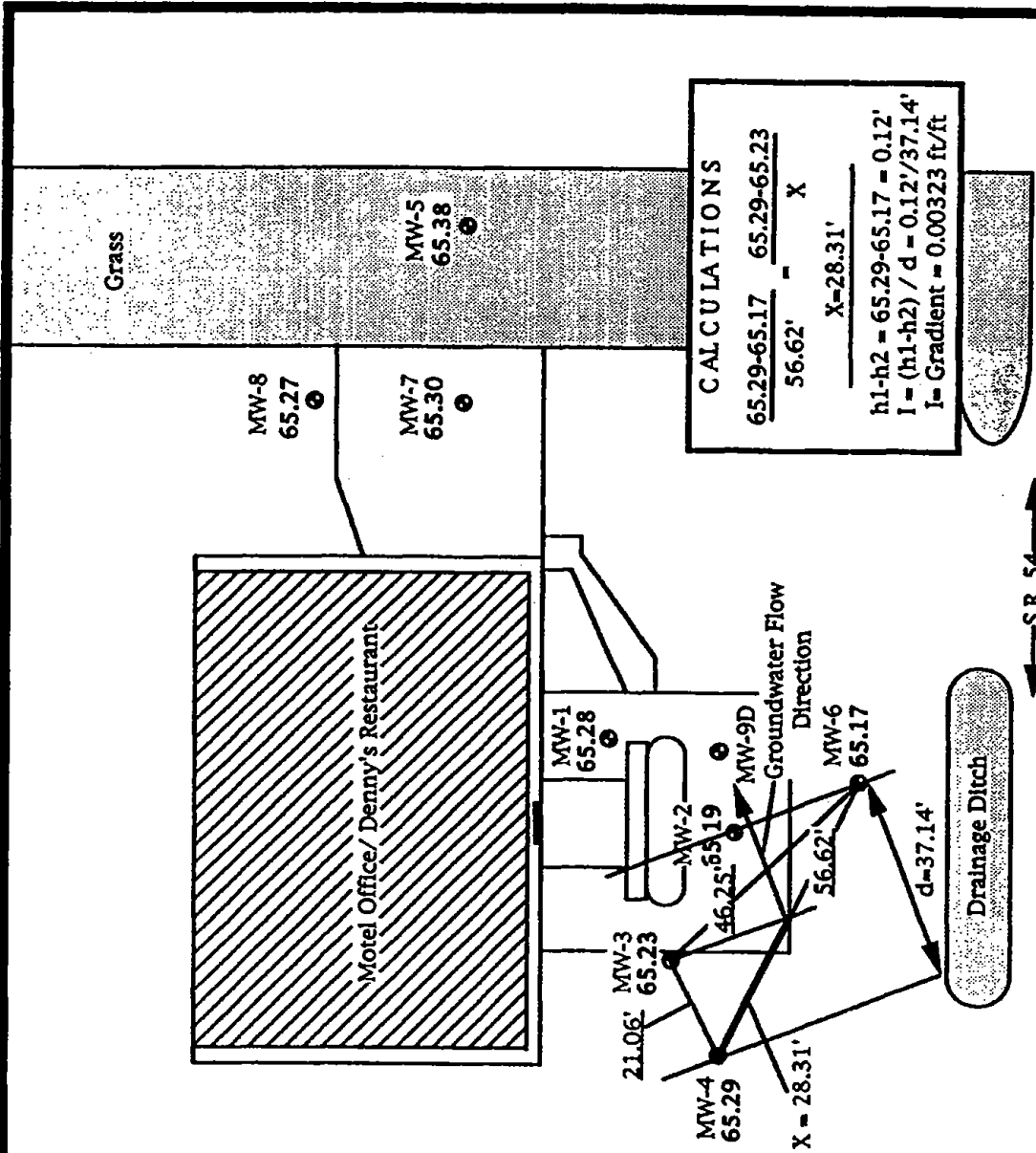


<p>HY-TECH Environmental Services, Inc.</p>	<p>Scale: 1" = 30'</p>	<p>Revisions: 9/29/93</p>
	<p>Drawn By: FMS</p>	
<p>Date Drawn: 7/23/93</p>		
<p>Project No.: 92-0307</p>		
<p>Figure 5: Site Plan</p>		
<p>Master's Economy Inn - 27807 SR 54, Wesley Chapel, Florida</p>		



Legend

- Monitoring Well
- 65.29' Static Water Table Levels (asl)
- 46.25' Distance Between Well Points



CALCULATIONS

$$\frac{65.29-65.17}{56.62'} = \frac{65.29-65.23}{X}$$

$$X = 28.31'$$

$$h_1-h_2 = 65.29-65.17 = 0.12'$$

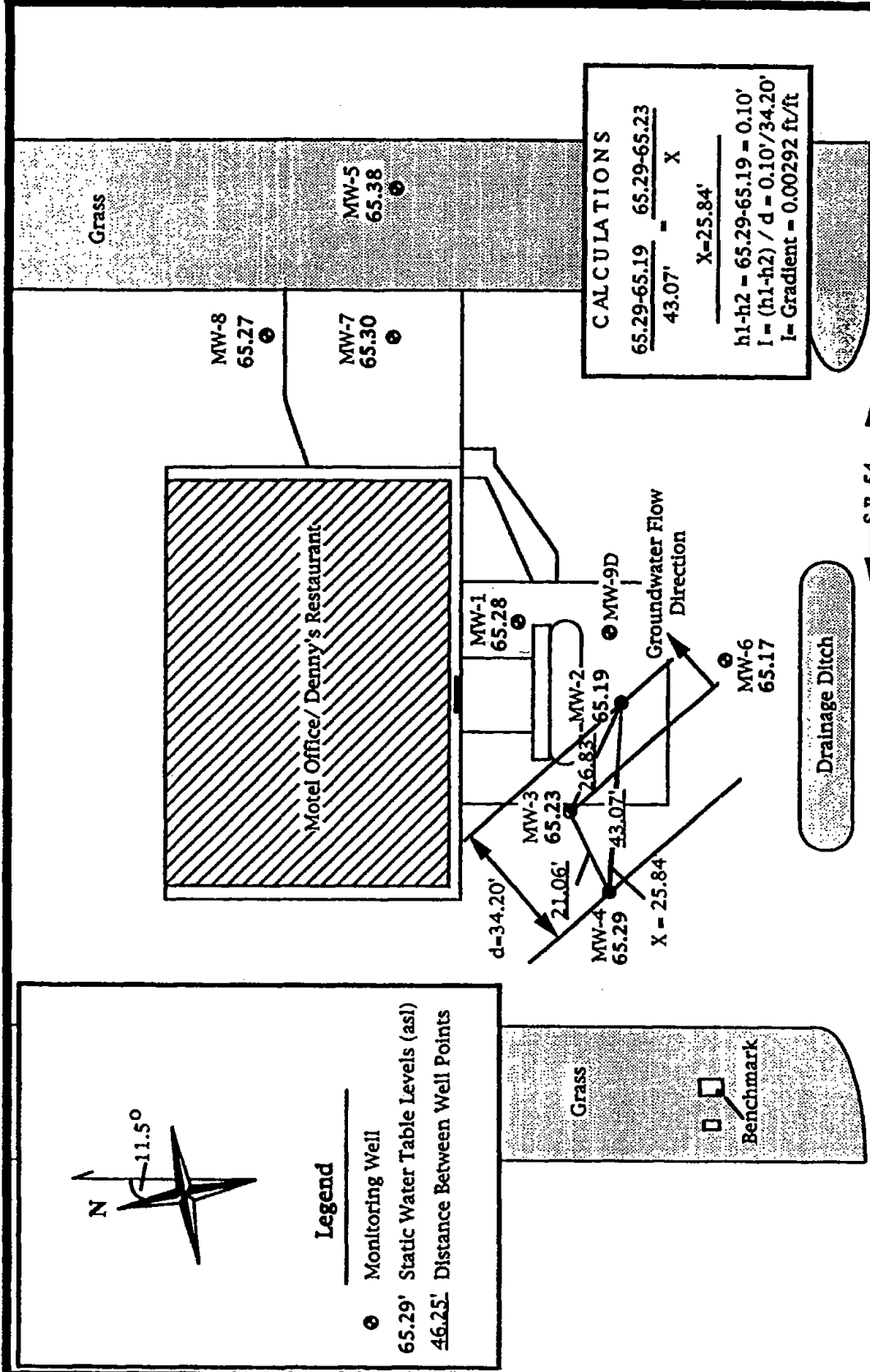
$$l = (h_1-h_2) / d = 0.12'/37.14'$$

$$i = \text{Gradient} = 0.00323 \text{ ft/ft}$$

↔ S.R. 54 ↔

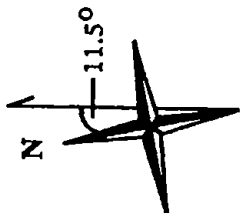
HY-TECH Environmental Services, Inc.	Scale: 1" = 30'	Revisions:
	Drawn By: FMS	
Figure 6: Groundwater Gradient Calculations - 9/23/93 : Well Set 1		
Date Drawn: 12/28/93		
Project No.: 92-0307		

Master's Economy Inn - 27807 SR 54, Wesley Chapel, Florida



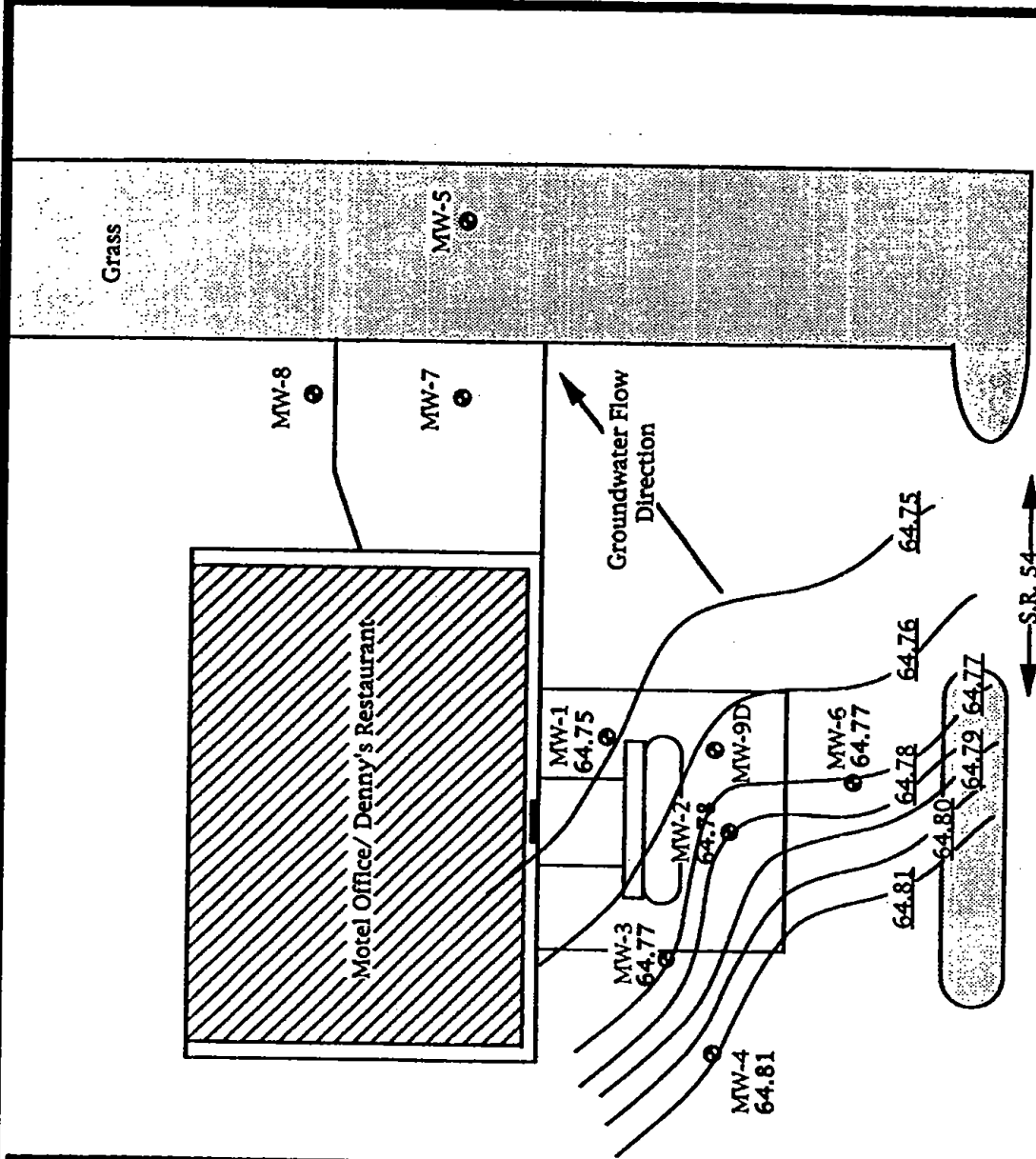
HY-TECH Environmental Services, Inc.	Scale: 1" = 30'	Revisions:
	Drawn By: FMS	
Date Drawn: 12/28/93		
Project No.: 92-0307		

Figure 7: Groundwater Gradient Calculations - 9/23/93 : Well Set 2
Master's Economy Inn - 27807 SR 54, Wesley Chapel, Florida



Legend

- Monitoring Well
- 64.81 Static Water Table (ft.)
- 64.77 Groundwater Contours



HY-TECH Environmental Services, Inc.

Figure 10: Groundwater Contours 11/5/93

Master's Economy Inn - 27807 SR 54, Wesley Chapel, Florida

Scale: 1" = 30'

Drawn By: FMS

Date Drawn: 12/28/93

Project No.: 92-0307

Revisions:

1967). Based on observations of average soil particle sizes of the saturated zone of 85% sand-sized particles, and 15% silt-sized particles, a specific yield (storativity) of 30% is estimated.

Table 4
Summary of Aquifer Characteristics

Hydraulic Conductivity (K)	6.10 ft/ day
Storage Coefficient (S)	30%
Aquifer Thickness (b)	18 ft.
Effective Soil Porosity (n)	30%
Transmissivity (T)	821.34 gpd/ ft

It should be noted that the determinations made from slug test data primarily reflect aquifer conditions near the test wells chosen, and that homogeneity is assumed in the calculations used to determine aquifer parameters. It is likely that the data obtained from the slug tests performed represent only the uppermost zone of the surficial aquifer.

5.5 Groundwater Analysis

The Department of Environmental Protection (DEP) has set allowable target levels for contaminant concentrations called Site Rehabilitative Levels (SRLs), as defined by Chapter 17-770.730(5)(a), FAC. Results of the analyses of groundwater samples are compared to the SRLs in evaluating the severity, or extent of contamination.

Dissolved hydrocarbons indicative of gasoline contamination, most notably benzene, were detected in all monitoring wells except MW-4, MW-5, and MW-8. The contaminant plume appears to be centered around MW-1, where concentration levels were significantly higher than those of any other well. The levels of benzene (4,300 ppb) and Total VOAs (6,300 ppb) in MW-1 greatly exceed the SRLs of 1.0 and 50.0 ppb, respectively.

There appears to have been slight vertical migration of contaminants evidenced by the detection of benzene and MTBE in the deep well (MW-9D). The concentration levels of benzene (0.9) and MTBE (13) are, however, below the SRLs. Neither total lead, nor EDB (1,2 Dibromoethane) was detected in any monitoring well.

A summary of the analytical results is presented in Table 5. Complete analytical results are presented in Appendix E.

Although the contamination is significant, it appears to be limited in areal scope. The plume is delineated to the North, East, and West by MW-8, MW-5, and MW-4, respectively. The analysis of MW-6 displayed a Total VOA level above the SRL, however, installing a well farther south was prevented by overhead power lines, a drainage ditch, and State Road 54 restricting the practical mobility of the drilling rig. The benzene and Total VOA plumes are illustrated in Figures 11 and 12, respectively.

HY-TECH
Environmental Services, Inc.

1328

Environmental Consulting § Site Remediation § Environmental Site Assessments § Storage Tank Management

March 25, 2002

TEAM 6

MAR 28 2002

Ms. Mark Zorn
Ecology and Environmental, Inc.
Petroleum Cleanup Section 6
Bureau of Petroleum Storage Systems
Dept. of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Ecology & Environment

RECEIVED
DEPARTMENT OF
ENVIRONMENTAL
02 MAR 27 11:10:33
STORAGE SYSTEMS
DOCUMENT MANAGEMENT
CENTER

Re: Deliverable
Master's Economy Inn
27807 State Road 54
Wesley Chapel, FL 33543
FDEP Facility # 519201573
Work Order #: 2002-96-0612

Subm: Held to E&E Per Data Entry on 3/27/02 micz.

Dear Ms. Zorn:

Enclosed, please the digital copies to the word documents and spreadsheet documents of the addendum to the SSA prepared for the referenced site. Two copies of the report were sent to you via Federal Express, and shipment was confirmed on Friday, March 22, 2002. Also enclosed are two copies of the signature page that were omitted from the original report.

Thank you for your attention in this matter.

Very truly yours,
HY-TECH Environmental Services, Inc.



Michael R. Bateman, P.G.
Vice President of Operations

Enclosure: 1.44 MB diskette, signature pages (2)

advanced during these two events, as well as those advanced during the November 29, 2001 event, are depicted in the site plan, Figure 1¹. The soil screening results are summarized in Table 1. An interpretation of these results is presented for a 0 – 2 ft depth range in Figure 3, and for a 2 – 4 ft depth range in Figure 4.

Verification soil samples were collected on February 20, 2002, and on March 6, 2002. These samples were collected in accordance with the approved Comprehensive Quality Assurance Plan (#890437G) that HY-TECH Environmental maintains with the Florida Department of Environmental Protection. All sampling containers were supplied, and preserved as appropriate, by the contracted laboratory (US Biosystems – Boca Raton, Florida).

The analytical results indicate that several of the parameters tested were detected above the Soil Cleanup Target Level as defined for leachability based on groundwater criteria in Chapter 62-777, F.A.C. A summary of the analytical results is presented in Table 2. Complete copies of the soil analytical reports are presented in Attachment-C.

Groundwater-Sampling Events & Analyses

Groundwater-sampling events were conducted on November 29, 2001, and on February 20, 2002. Concurrent with these sampling events, water-table depths in each monitoring well were determined with a water-level meter accurate to 0.01 ft. The water-table elevation was determined from the casing elevation data provided by the special-purpose survey, and subsequent field surveying conducted by HY-TECH Environmental; these data are summarized in Table 3. An interpretation of the groundwater flow

¹ The "SB" designation has been removed from the soil boring location in Figure 1 to accommodate the number of data points within a limited drawing area. This designation, however, is maintained in all applicable summary tables and logs.

direction, as depicted in Figure 5, is in a southwesterly direction. This is consistent with the flow direction reported in the SSA report (May, 2001). The maximum fluctuation in the groundwater level between May 9, 2001, and February 20, 2002, is 2.66 ft represented in MW-6, and 2.99 ft represented in MW-9D.

Dedicated submersible pumps were used to purge groundwater from the monitoring wells prior to sampling at an average rate of 2.2 gallons per minute. The purge water was discharged directly onto an impervious surface. A minimum of five well volumes were purged from each monitoring well. Only MW-16 could not maintain the specified flow rate, and as a result, was pumped dry several times prior to producing five well volumes. Water-sampling logs are presented in Attachment-D.

Groundwater samples were collected using dedicated Teflon® bailers supplied by the contracted laboratory (US Biosystems – Boca Raton, Florida). Groundwater samples were collected in accordance with the approved Comprehensive Quality Assurance Plan (#890437G) that HY-TECH Environmental maintains with the Florida Department of Environmental Protection. All sampling containers were supplied, and preserved as appropriate, by the contracted laboratory.

The contracted laboratory conducted analyses on the groundwater samples using EPA test methods 8270 (Polynuclear Aromatic Hydrocarbons), and 602 (BTEX Compounds and MTBE). The laboratory report indicates that Groundwater Cleanup Target Levels, as defined for groundwater criteria in Chapter 62-777, F.A.C., have been exceeded in monitoring wells MW-7R, MW-13, MW-14, and MW-15. An interpretation of these results is depicted in the Groundwater Contamination Concentration Map, Figure 6. A cumulative summary of the groundwater analytical results is presented in Table 4.

Complete copies of the groundwater analytical reports and chain of custody receipts are presented in Attachment-E.

Conclusions

The SSA report (May, 2001) indicates that none of the Soil Cleanup Target Levels (SCTL's) were exceeded in any of the soil samples collected. In that report, the OVA data ranged from <1 ppm to >130 ppm. However, the current data show that the high OVA samples collected for independent analyses do exceed the SCTL's² for soil samples SB-B, SB-I, SB-K, SB-N, SB-W, and SB-X. The lowest OVA reading in this set was 190 ppm (SB-K), and the highest exceeded 1,000 ppm (SB-W). Concentrations of benzene, and/or TRPH in soil samples SB-I and SB-N exceed the criteria for direct exposure for commercial/industrial sites as defined in Chapter 62-777, F.A.C.

Of the chemicals of concern (COC's) detected, total xylenes and TRPH's show the highest concentrations; this is consistent with aged gasoline. However, key indicator parameters for diesel fuel³ were detected in soil sample SB-X; both fluorene and phenanthrene were detected in concentrations of 0.24 mg/kg. This suggests that the petroleum discharge may have involved both diesel fuel and gasoline.

The groundwater analytical results from replacement well MW-7R show a mixed trend in concentrations from earlier sampling events. Comparing the data collected on May 13, 1994, to the most recent data, there is an increase in concentrations of toluene

² Defined for leachability based on groundwater criteria, from Chapter 62-777, F.A.C.

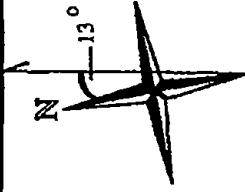
³ Thomas, D.H. and J.J. Delfino. 1991. A gas chromatographic/chemical indicator approach to assessing ground water contamination by petroleum products. *Ground Water Monitoring Review*, v.11, no. 4, pp. 90-100.

and total xylenes, while the other BTEX constituents show a decrease. Slight discrepancies can be expected in the replacement wells, as the sampling locations are slightly different from the original sampling points. The trend in the other monitoring wells with multiple sampling events is an overall decrease in the concentrations of COC's. However, Groundwater Cleanup Target Levels are still exceeded in monitoring wells MW-1, MW-2, MW-6, MW-7R, MW-9D, MW-13, MW-14, and in MW-15 where the highest contaminant concentrations were observed.

The most significant evidence that natural attenuation is occurring at the subject site might be the reduction in total VOA concentrations in monitoring well MW-1 from 6,300 µg/l recorded in July of 1993, to <44 µg/l in May of 2001. An MTBE concentration of 36 µg/l in monitoring well MW-14 and the fact that this well is generally down gradient from the source areas suggests that the contaminant plume is migrating in the direction of groundwater flow. The increase of benzene concentrations in the vertical-extent well MW-9D may be an indication that vertical migration of the contaminant plume is also occurring. This migration is likely a result of transverse dispersion occurring in the direction of groundwater flow.

Recommendations

A Remedial Action Plan is required to mitigate the impact of the contaminant source areas as described in this report. Source removal in conjunction with natural attenuation is certainly a viable remediation option.

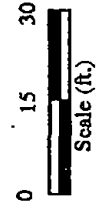


EXPLANATION

> 1,000 Total OVA Contour, ppm
(dashed where inferred)

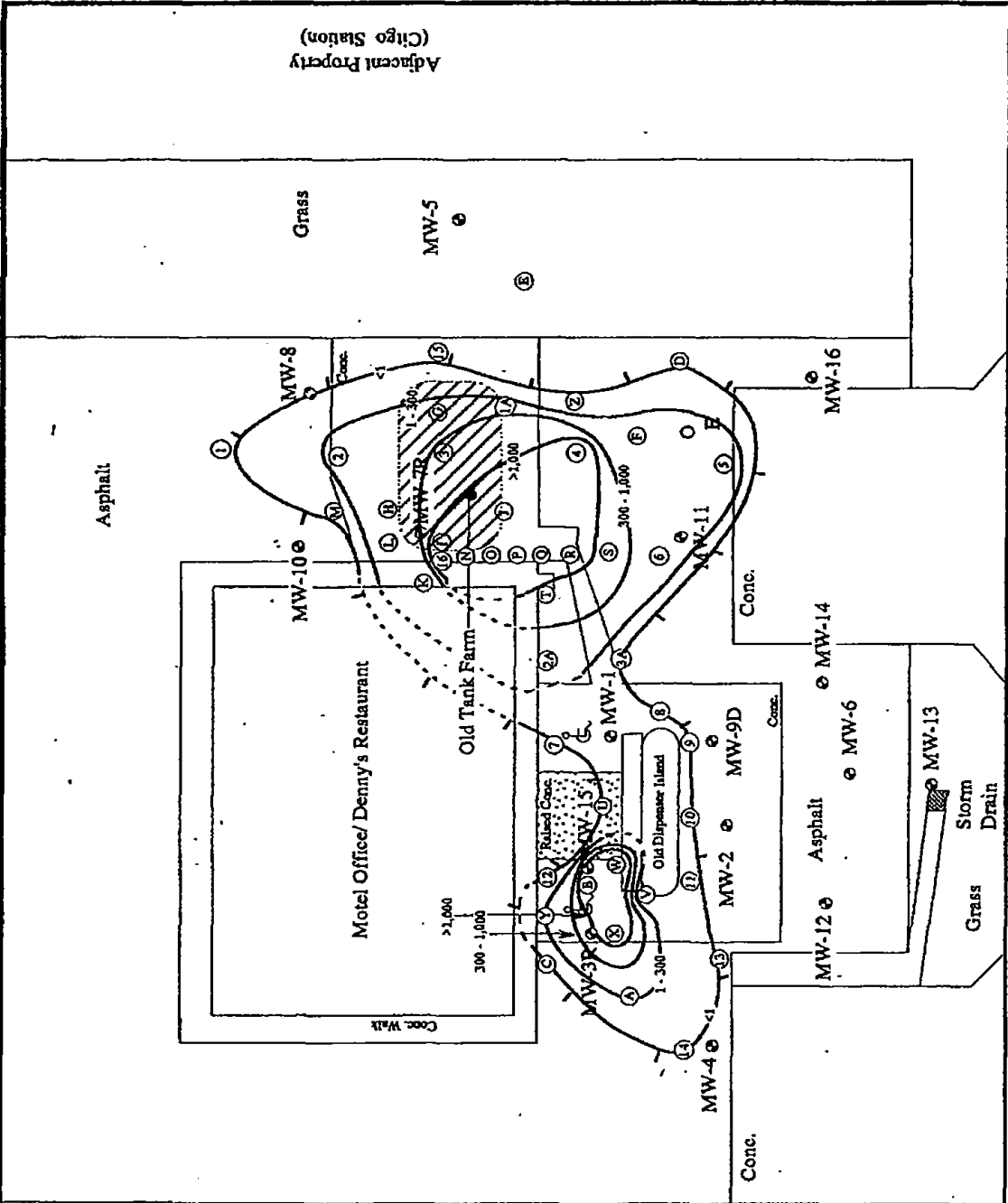
< 1 Below Detection Limit Contour,
ppm (dashed where inferred)

- Ⓐ Ⓑ Soil Boring Locations
- ⊙ Monitoring Well
- ⊙ Missing Well (covered w/asphalt)



Note: Base Drawing from Survey performed
by Hamilton Engineering & Surveying

Adjacent Property
(Amoco Station)

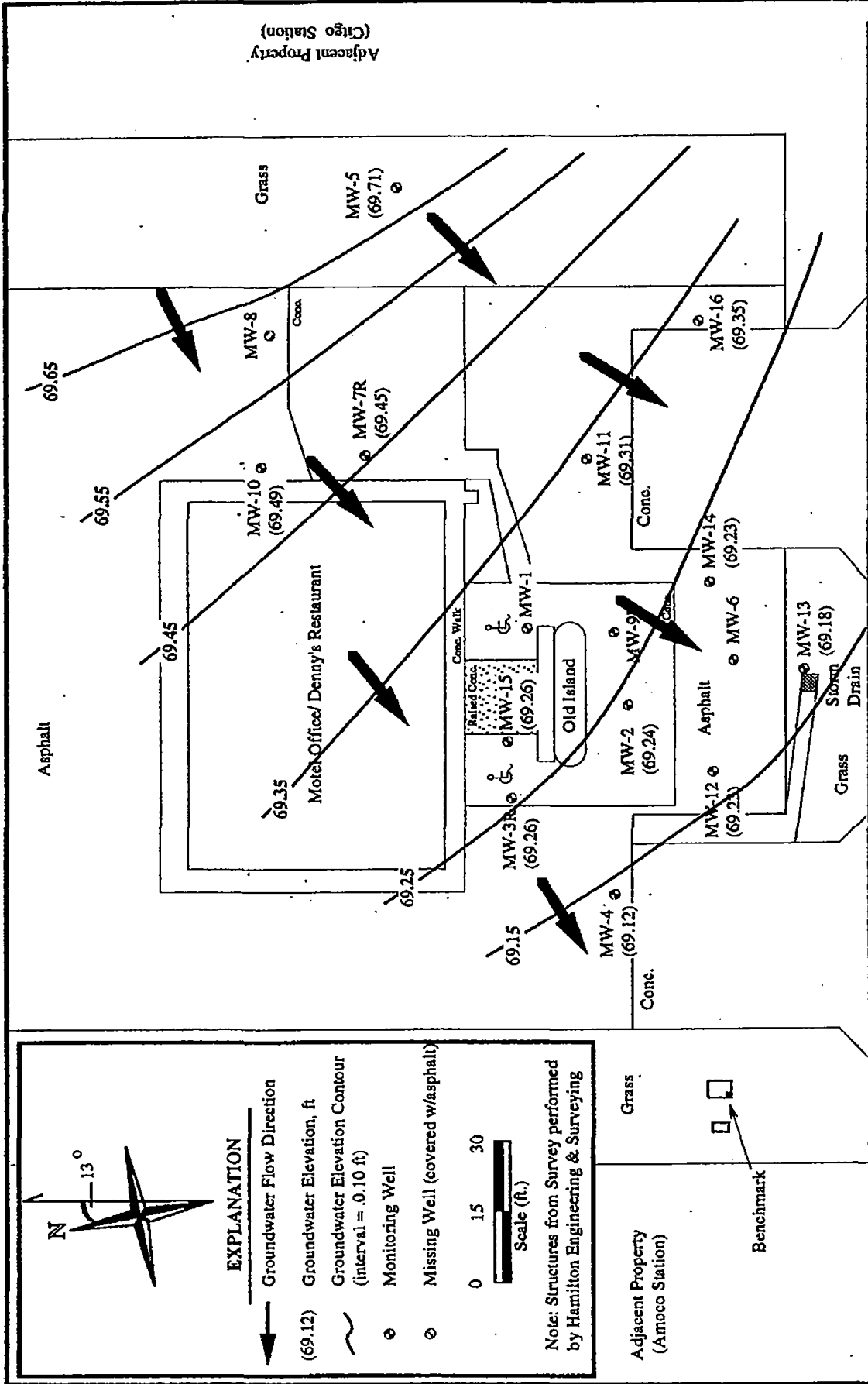


STATE ROAD 54

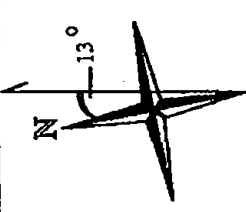
HY-TECH Environmental Services, Inc.

Figure 3: SOIL SCREENING RESULTS
0 - 2 FT B.L.S.

Scale: As Shown	Revisions: 12/6/01 MRB, 3/8/02 MRB, 3/14/02 MRB
Drawn By: MRB	
Date Drawn: 05/16/01	
Project No.: 00-1003	Facility I.D.: 519201573
Master's Economy Inn - 27807 S.R. 54, Wesley Chapel, Florida	



<p>HY-TECH Environmental Services, Inc.</p> <p>Figure 5: GROUNDWATER ELEVATION CONTOUR MAP</p>	<p>Scale: As Shown</p> <p>Drawn By: MRB</p> <p>Date Drawn: 05/16/01</p> <p>Project No.: 00-1003</p> <p>Master's Economy Inn - 27807 S.R. 54, Wesley Chapel, Florida</p>	<p>Revisions: 12/6/01 MRB, 3/8/02 MRB, 3/14/02 MRB</p>
	<p>Facility I.D.: SI/9201573</p>	

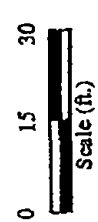


EXPLANATION

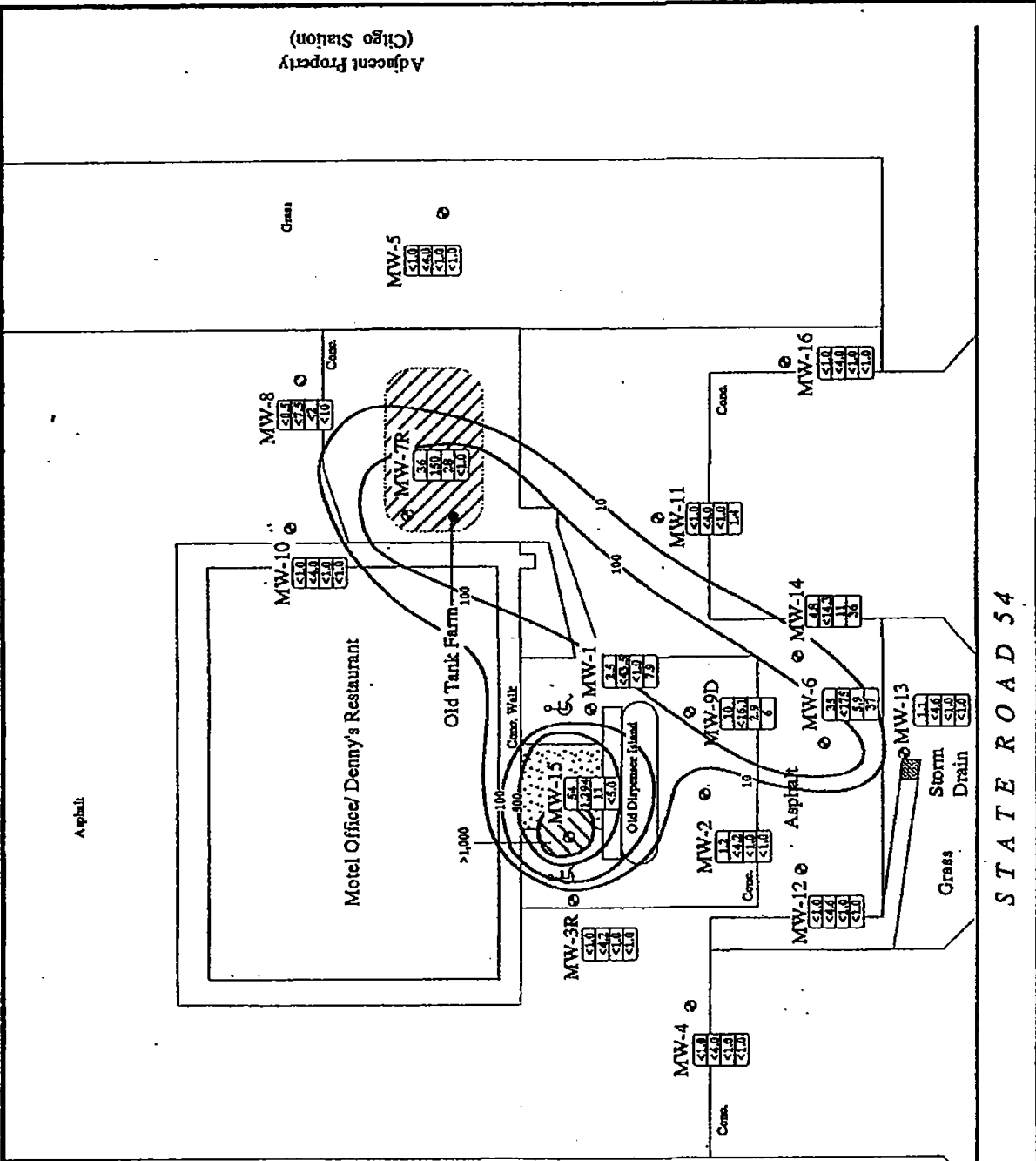
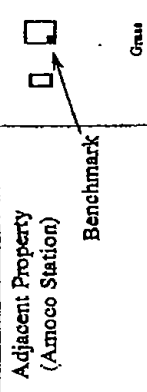
1.2	Benzene (µg/L)
2.2	Total VOA (µg/L)
1.3	Naphthalene (µg/L)
5.5	MTBE (µg/L)

(most recent data reported)

- Monitoring Well
- Missing Well (covered w/asphalt)
- ~ Total VOA's Contour (µg/L)



Note: Structures from Survey performed by Hamilton Engineering & Surveying



STATE ROAD 54

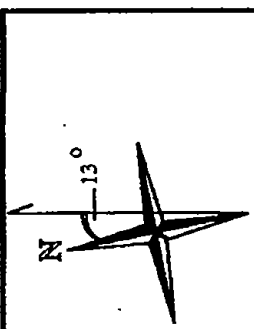
Scale: As Shown
 Drawn By: MRB
 Date Drawn: 05/16/01
 Project No.: 00-1003
 Master's Economy Inn - 27807 S.R. 54, Wesley Chapel, Florida

Revisions: 12/6/01 MRB, 3/8/02 MRB, 3/14/02 MRB

Facility I.D.: 5119201573

HY-TECH Environmental Services, Inc.

Figure 6: GROUNDWATER CONTAMINATION CONC. MAP

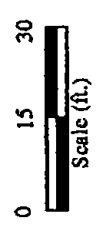


EXPLANATION

>1,000 Total OVA Contour, ppm
(dashed where inferred)

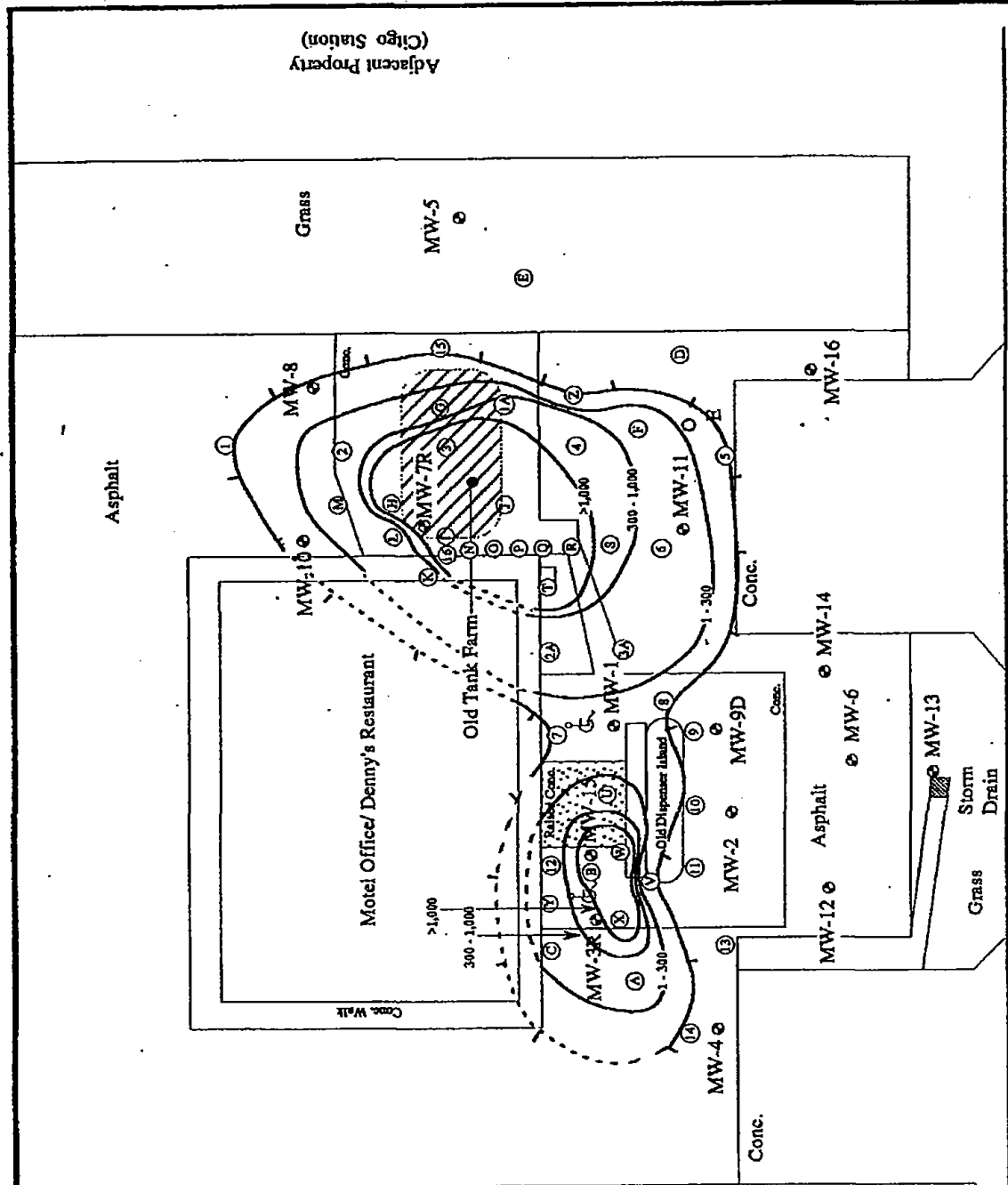
<1 Below Detection Limit Contour,
ppm (dashed where inferred)

- Ⓐ Soil Boring Locations
- Ⓢ Monitoring Well
- ⊙ Missing Well (covered w/asphalt)



Note: Base Drawing from Survey performed by Hamilton Engineering & Surveying

Adjacent Property
(Amoco Station)



STATE ROAD 54

<p>HY-TECH Environmental Services, Inc.</p>	<p>Scale: As Shown</p>	<p>Revisions: 12/6/01 MRB, 3/8/02 MRB, 3/14/02 MRB</p>
	<p>Drawn By: MRB</p>	
	<p>Date Drawn: 05/16/01</p>	
	<p>Project No.: 00-1003</p>	
	<p>Master's Economy Inn - 27807 S.R. 54, Wesley Chapel, Florida</p>	
<p>Figure 4: SOIL SCREENING RESULTS 2 - 4 FT B.L.S.</p>		<p>Facility I.D.: 519201573</p>

Site No. 23 – Amoco

CONTAMINATION ASSESSMENT REPORT
AMOCO SERVICE STATION
15016 STATE ROAD 54
WESLEY CHAPEL, FLORIDA
(AMOCO FACILITY NO. 10710;
EDER FACILITY NO. 518943667)
1/28/90

Prepared for
AMOCO OIL COMPANY
H. Lauderdale, Florida

Geraghty & Miller Project No. TF05805

February 1990

Prepared by
GERAGHTY & MILLER, INC.
Environmental Services
3820 Northdale Boulevard, Suite 200B
Tampa, FL 33624

20\report ts\AMG.150

GERAGHTY & MILLER, INC.

INTRODUCTION

In August 1989, Geraghty & Miller, Inc., was retained by Amoco Oil Company to conduct a Contamination Assessment (CA) to investigate the presence or absence of hydrocarbons in the subsurface at Amoco Facility No. 10710 (Florida Department of Environmental Regulation [FDER] No. 518943667). The facility is located at 15016 State Road 54, Wesley Chapel, Florida (Figures 1 and 2).

Based on the findings of the CA, this Contamination Assessment Report (CAR) will recommend that Amoco Facility No. 10710 be placed in a "Monitoring Only" status.

OBJECTIVE OF THE CONTAMINATION ASSESSMENT

The objectives of Geraghty & Miller's CA, in accordance with Section 17-770.600(2) of the Florida Administrative Code (FAC), are listed below.

- o Determine whether the soil, sediment, surface water, or ground water are contaminated at the site (Section 17-770.600[2][a], FAC).
- o Determine whether initial remedial actions (IRAs) are necessary to abate any imminent hazard (Section 17-770.600[2][b], FAC).
- o Determine or confirm the contaminant source(s) (Section 17-770.600[2][c], FAC).
- o Establish the horizontal extent and thickness of free product (Section 17-770.600[2][d], FAC).

$$T = Kb$$

Where: K = the on-site hydraulic conductivity of the subsurface deposits;

b = the thickness of the surficial aquifer.

HYDROCARBON DISTRIBUTIONS

Hydrocarbon Soil Vapor and Residuals

OVA readings in excess of 500 parts per million (ppm), were detected in Soil Boring SB-1, SB-2, SB-3, SB-6 through SB-9, and SB-11. OVA readings in excess of 100 ppm were detected in Soil Borings SB-5, SB-10, and in the soil boring drilled at the location of Observation Wells OW-8 through OW-11. No soil contamination was detected below 12 ft bls. A distinct hydrocarbon odor was detected only in Soil Borings SB-2 and SB-3, both of which are located near and downgradient of the underground tanks. The high OVA readings in Soil Borings SB-1 and SB-5 through SB-11 appear to be associated with a high natural organic content of the soil.

Free-Phase Hydrocarbons

The CA and past records indicate that free-phase hydrocarbons have not been detected at this facility.

Dissolved Hydrocarbons

Dissolved volatile organic aromatics (VOAs), as defined in Section 17-770.600(9), FAC, were above target level concentrations established in Section 17-770.600(9)(a), FAC, in samples from

20\reports\AHO.150

GERAGHTY & MILLER, INC.

Compliance Wells CW-2 (432³⁴⁷ micrograms per liter [ug/L]) and CW-3 (13,786 ug/L). Benzene was reported above target levels in samples collected from Compliance Wells CW-2 (300 ug/L), CW-3 (400 ug/L), CW-4 (22 ug/L), CW-5 (2 ug/L), and in samples collected from Observation Wells OW-10 (2 ug/L) and OW-11 (5 ug/L). Methyl tert-butyl ether (MTBE) concentrations were detected in excess of 50 ug/L in samples collected from Compliance Wells CW-1 (133 ug/L), CW-2 (700 ug/L), and CW-4 (4,740 ug/L), and in samples collected from Observation Wells OW-8 (127 ug/L), OW-10 (150 ug/L), and OW-11 (54 ug/L). No purgeable halocarbons or lead were detected above applicable standards. Total PAHs exceeded targeted levels in samples collected from Compliance Well CW-5 (11 ug/L) and Observation Well OW-9 (13 ug/L); total naphthalenes only were exceeded in the sample collected from Compliance Well CW-3 (493 ug/L). Results of the ground-water analyses are listed in Tables 6 and 7; laboratory reports are presented in Appendix G. Figure 10 shows the areal distribution of dissolved benzene, total VOAs and total PAHs (including total naphthalenes) detected in ground-water samples collected on February 1, 1990.

Based on a TDS of 334 milligrams per liter (mg/L), ground water in the surficial aquifer at the facility appears to meet the criteria for classification as a G-II aquifer.

CONCLUSIONS

- o Underground storage tanks and accompanying product lines at the site were rated acceptable in tightness tests conducted in January 1990.

- o Though several wells are located within a half-mile radius of the site, construction details

indicate that these wells are cased through the surficial aquifer.

- o The surficial aquifer at the site is underlain by a confining unit, which appears to be approximately 14 ft thick.
- o On-site water-table elevations indicate that ground water in the surficial aquifer generally flows to the south-southeast; regionally, the flow is in the southwest direction.
- o Hydraulic conductivities in the surficial aquifer range from 0.23 ft/d to 1.33 ft/d.
- o Water-quality analyses indicate that the following dissolved constituents were detected in excess of the following FDER target levels:

Benzene (at Compliance/Observation Wells CW-2, CW-3, CW-4, CW-5, OW-10 and OW-11);

VOAs (at Compliance Wells CW-2 and CW-3);

MTBE (at Compliance/Observation Wells CW-1, CW-2, CW-4, OW-8, OW-10 and OW-11);

PAHs (at Compliance/Observation Wells CW-5 and OW-9);

Total Naphthalenes (at Observation Well CW-3).

- o No free-phase hydrocarbons have been detected on-site.
- o The dissolved hydrocarbons are contained on-site and appear to be limited in extent.
- o Based on the TDS concentration in a ground-water sample collected from Observation Well OW-11, the ground water in the surficial aquifer meets the criteria for classification as a Class II.

RECOMMENDATIONS

Geraghty & Miller recommends that Amoco Facility No. 10710, located at 15016 S.R. 54, Wesley Chapel, Florida, be placed in a "Monitoring Only" status, until the requirements of Section 17-770.600(5)(a) are met. This recommendation is based upon the following findings:

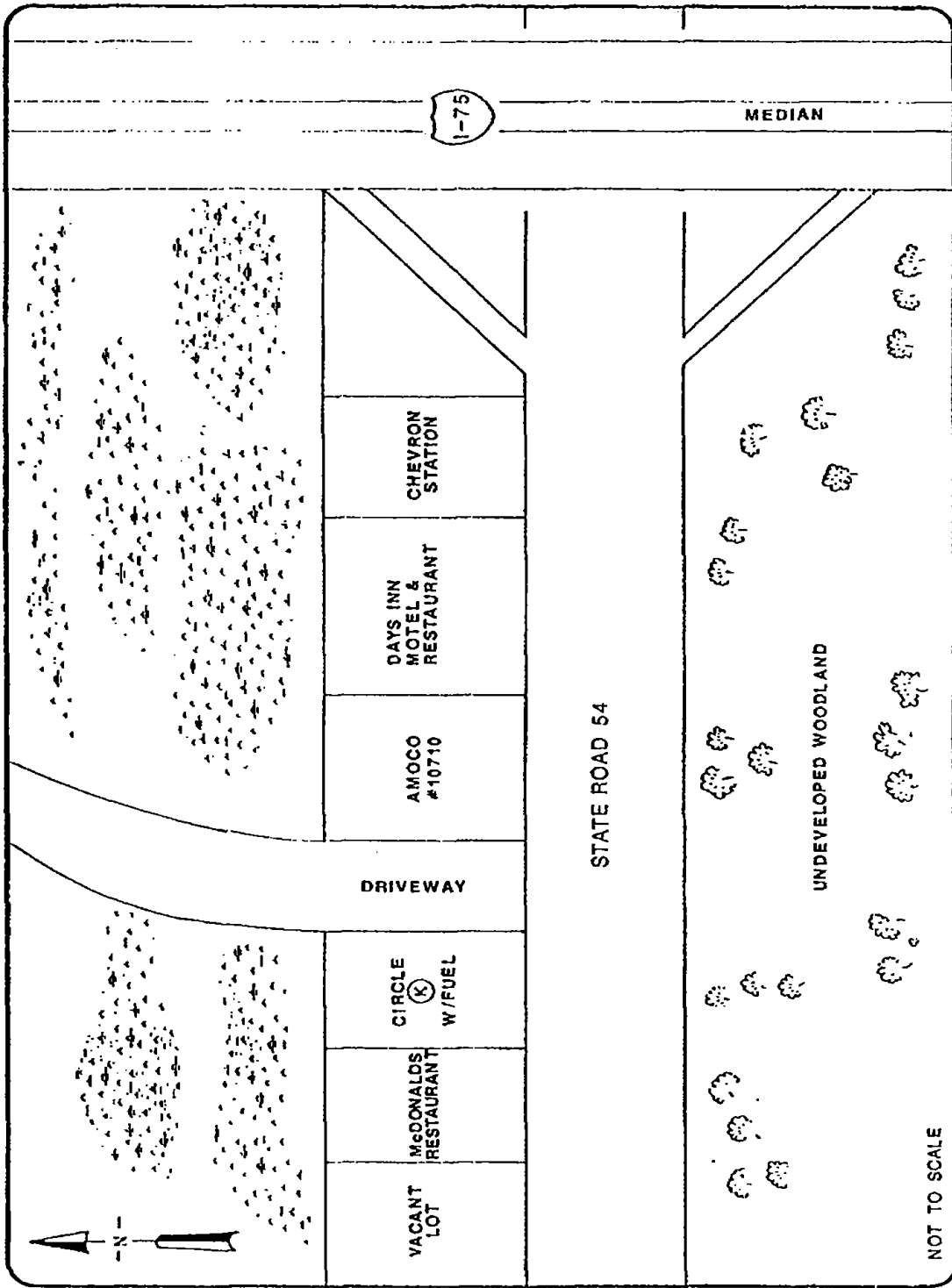
- o High natural organic matter in the soils;
- o The low hydraulic conductivities calculated on-site and regionally;
- o The presence of a confining unit;
- o The surficial aquifer is not used as a potable source of water within a half-mile of the site;

- o The upper Floridan aquifer wells within a half-mile of the facility are upgradient and are cased through the surficial aquifer;
- o The lateral extent of dissolved hydrocarbon constituents is limited to an area within the site property boundary;
- o Based on the findings of the CA, the vertical extent of dissolved hydrocarbon constituents is limited to the upper portion of the surficial aquifer;

Respectfully submitted,
GERAGHTY & MILLER, INC.

Hugh B. Devery
Staff Scientist

Steven T. Walker
Associate



CLIENT NAME: AMOCO
 FACILITY NO. 10710
 15016 W. Highway 54
 Wesley Chapel, Florida

Figure 2. Local Land Use Map

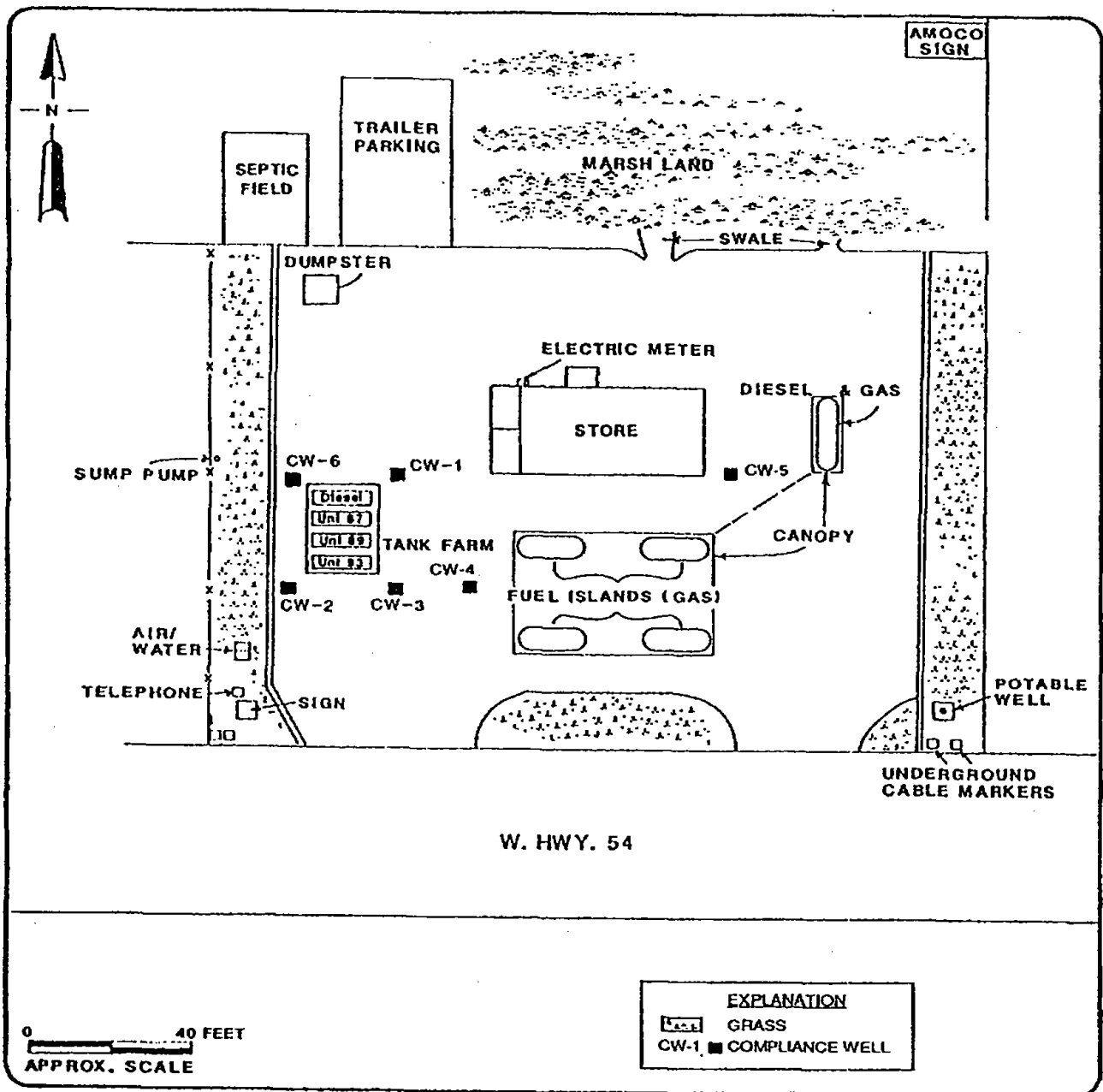


Figure 3. Site Map Prior to Initiation of the Contamination Assessment

CLIENT NAME: AMOCO
 FACILITY NO. 10710
 15016 W. Hwy. 54
 Wesley Chapel, Florida

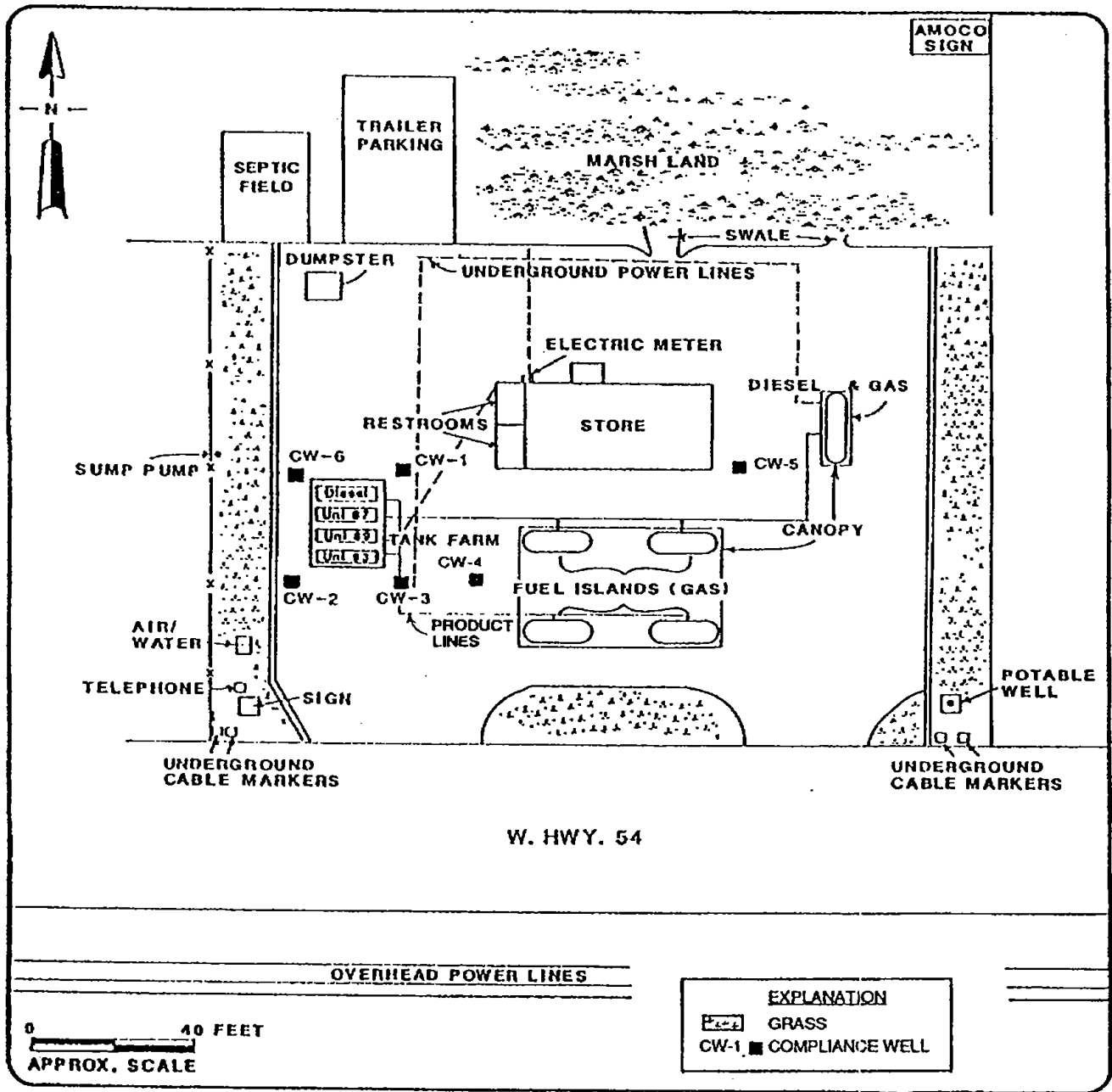
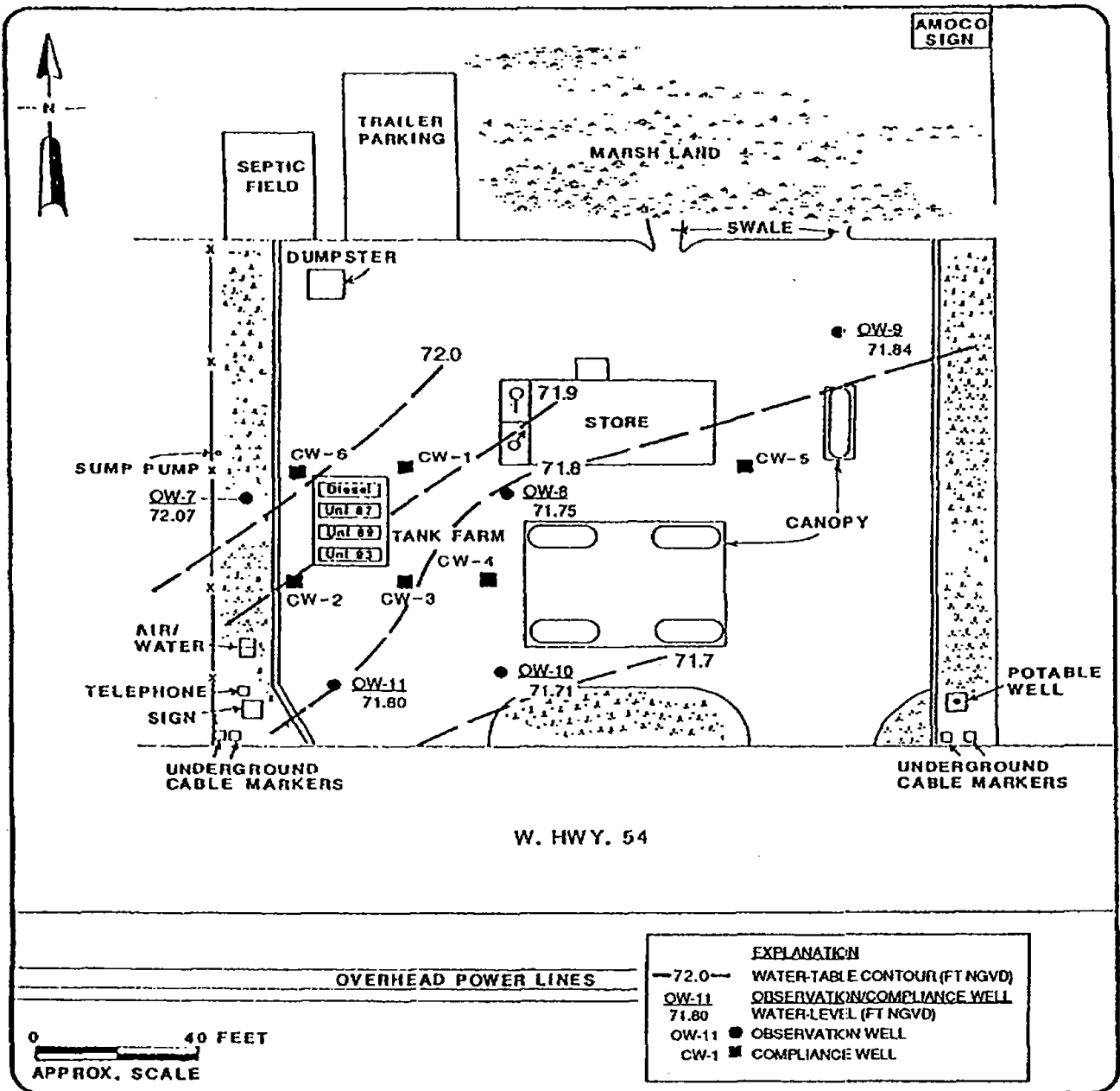



Figure 4. Site Map Showing Location of Utilities

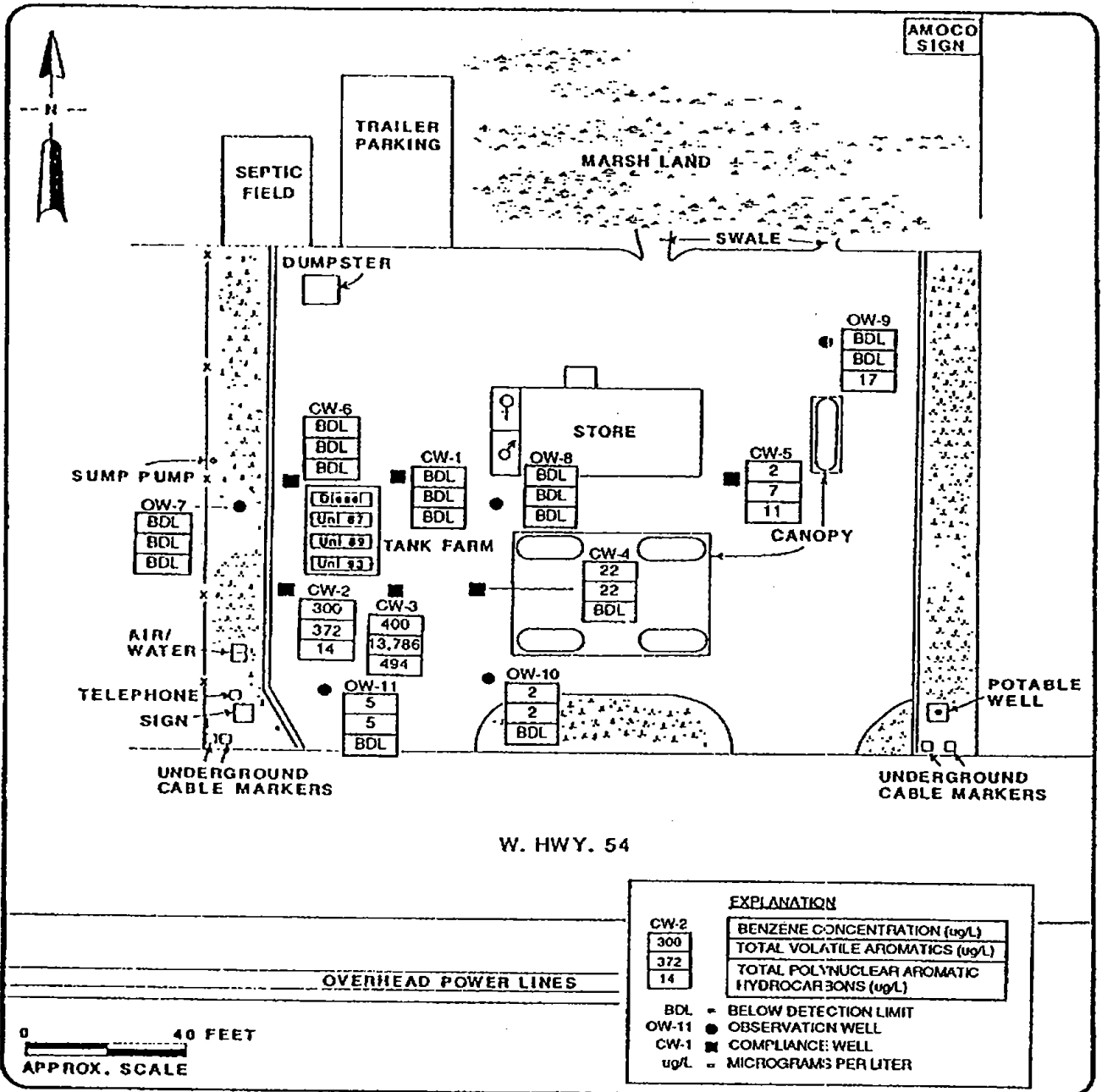
CLIENT NAME: AMOCO
 FACILITY NO. 10710
 15016 W. Hwy. 54
 Wesley Chapel, Florida


GERAGHTY & MILLER, INC.




Figure 9. Water-Table Contour Map for February 1, 1990.

CLIENT NAME: AMOCO
FACILITY NO. 10710
 15016 W. Highway 54
 Wesley Chapel, Florida



 Figure 10. Dissolved Concentrations of Benzene, Total Volatile Aromatic and Total Polynuclear Aromatic Hydrocarbons in Ground Water Samples Collected 2/1/90

CLIENT NAME: AMOCO
 FACILITY NO. 10710
 15016 W. Hwy. 54
 Wesley Chapel, Florida



LIMITED SCOPE
REMEDIAL ACTION PLAN REPORT
Year 1, Quarter 1
5/6/94 - 6/3/94 & 6/10/94 - 6/13/94
AMOCO SERVICE STATION NO. 10710
15016 West Highway 54, Wesley Chapel, FL
FDEP Facility No. 518520035

LIMITED SCOPE REMEDIAL ACTION PLAN REPORT

Year 1, Quarter 1
(May 6, 1994 through June 3, 1994 and June 10, 1994 through June 13, 1994)
Amoco Service Station No. 10710
15016 West Highway 54, Wesley Chapel, Florida
FDEP Facility No. 518520035

REPORT SUMMARY

I. INTRODUCTION

Amoco Oil Company authorized Water Equipment Services, Inc. (WES), to conduct the operation, maintenance and monitoring of the Limited Scope Remedial Action Plan (LSRAP) at the above referenced site. This report summarizes these activities during Quarter 1 of the current remedial year (Year 1).

The Contamination Assessment Report (CAR) submitted by Geraghty & Miller Inc., to the Florida Department of Environmental Regulation (FDER) was approved on October 20, 1993. A LSRAP was submitted by WES on behalf of Amoco Oil Company, on December 27, 1993, to the Florida Department of Environmental Protection (FDEP). The LSRAP was approved on February 28, 1994. However, WES submitted a time extension request that would permit the system start-up date by April 30, 1994. This extension of time was required to arrange for system automation. The request was granted by the FDEP on March 24, 1994. A second extension of time was granted on May 3, 1994, due to equipment scheduling delays. The system was in operation from May 6, 1994, to June 3, 1994. Additionally, the system was restarted on June 10, 1994, and shutdown on June 13, 1994.

The remediation system consisted of one ground water submersible pump (Grundfos Model 5E3, 1/3 hp), two water phase carbon units (WES Model 200) linked in series, a WES Mobile V.E.S. Trailer, two air phase carbon units (WES Model 200) linked in series and all associated piping.

II. GROUNDWATER RECOVERY, TREATMENT AND DISPOSAL SYSTEM

System Description

Ground water was extracted from Observation Well (OW-8), which served a dual purpose as a ground water recovery well and a vapor extraction well, per the approved RAP. Ground water recovered was treated utilizing two carbon vessels placed in series. Additionally, a VES blower was connected to two carbon vessels placed in series for vapor treatment. The treated ground water was discharged to an on-site storm water retention pond. The design rate for the system was 1 gallon per minute (gpm).

System Performance and Evaluation

The groundwater treatment system processed approximately 18,200 gallons of water during the period of operation of the LSRAP. The average pumping rate during this period was 0.5 gpm, which approximates the design flow rate of 1 gpm.

A summary of groundwater extraction information is included in Section 9.

System Problems and Remedies

No system problems were reported during the operation of LSRAP.

III. SOIL VAPOR EXTRACTION AND TREATMENT SYSTEM

System Description

A portable Vapor Extraction System (VES) mounted on a mobile trailer was utilized during the pumping event to remediate soils that were previously unexposed. Monitoring of the VES was conducted weekly and the results are summarized in Section 12.

System Performance

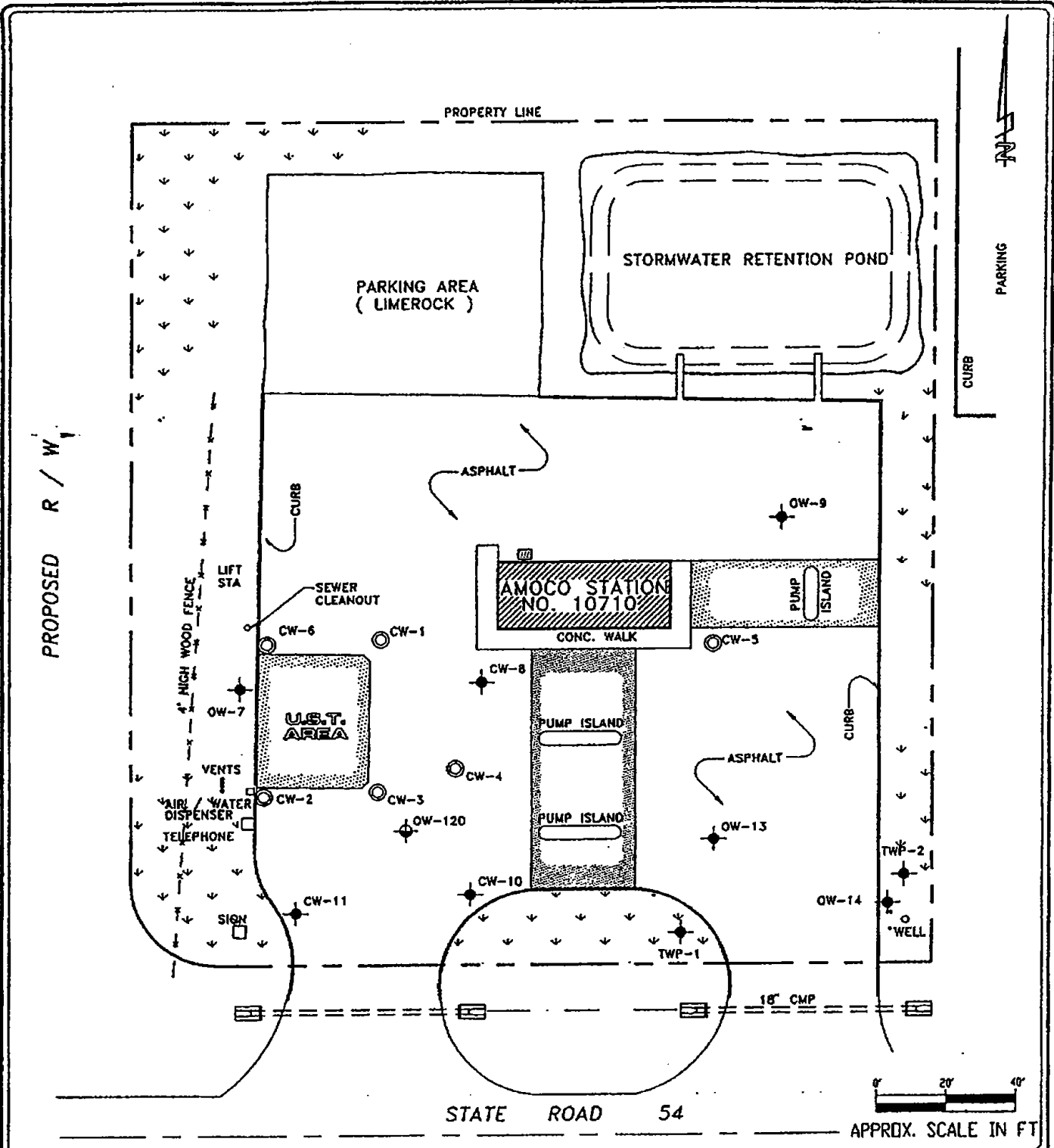
The influent and effluent of the VES were monitored weekly during the operational period for EPA Method T03 and 18 parameters. Influent concentrations of Benzene for the VES ranged from 24 milligrams (mg) per cubic meter to 117 mg per cubic meter with an initial value of 117 mg per cubic meter. Influent concentrations of BTEX constituents for the VES ranged from 434 milligrams (mg) per cubic meter to 742 mg per cubic meter with an initial value of 742 mg per cubic meter. Influent concentrations of Total Petroleum Hydrocarbons (TPH) for the VES ranged from 4,800 mg per cubic meter to 20,400 mg per cubic meter with an initial value of 20,400 mg per cubic meter. Based on these respective values, the VES had effective capture of petroleum vapors entrained in the vadose zone, and the previously saturated area within the cone of influence exposed by groundwater withdrawal. The performance data for the VES system is presented in Section 10.

System Problems and Remedies

The VES was down from approximately May 23, 1994, to May 31, 1994, due to a tripped breaker for the VES blower. The blower was reset and the system restarted. No other downtime occurred during the remedial action.

IV. COMMENTS / RECOMMENDATIONS

During the LSRAP operation, the remediation system did not yield the pumping rate specified in design. Based on the results of the full round sampling event that occurred on June 23, 1994, all the monitor wells were below detection limits, with the exception of Observation Well (OW-8). Since Observation Well (OW-8) still displays significant levels of petroleum hydrocarbons, this indicates the LSRAP was not effective in reducing the subject site to No Further Action (NFA) levels. WES recommends that the subject site be placed on a Monitoring Only Plan (MOP) status, and the dissolved hydrocarbons in the vicinity of Observation Well (OW-8) be allowed to naturally biodegrade.



DRAWN BY: WKM JCB	DATE: 9/94
REVISED BY:	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:

SITE LAYOUT MAP
AMOCO STATION NO. 10710
AMOCO OIL COMPANY
I-75 & S.R. 54
WESLEY CHAPEL, FLORIDA

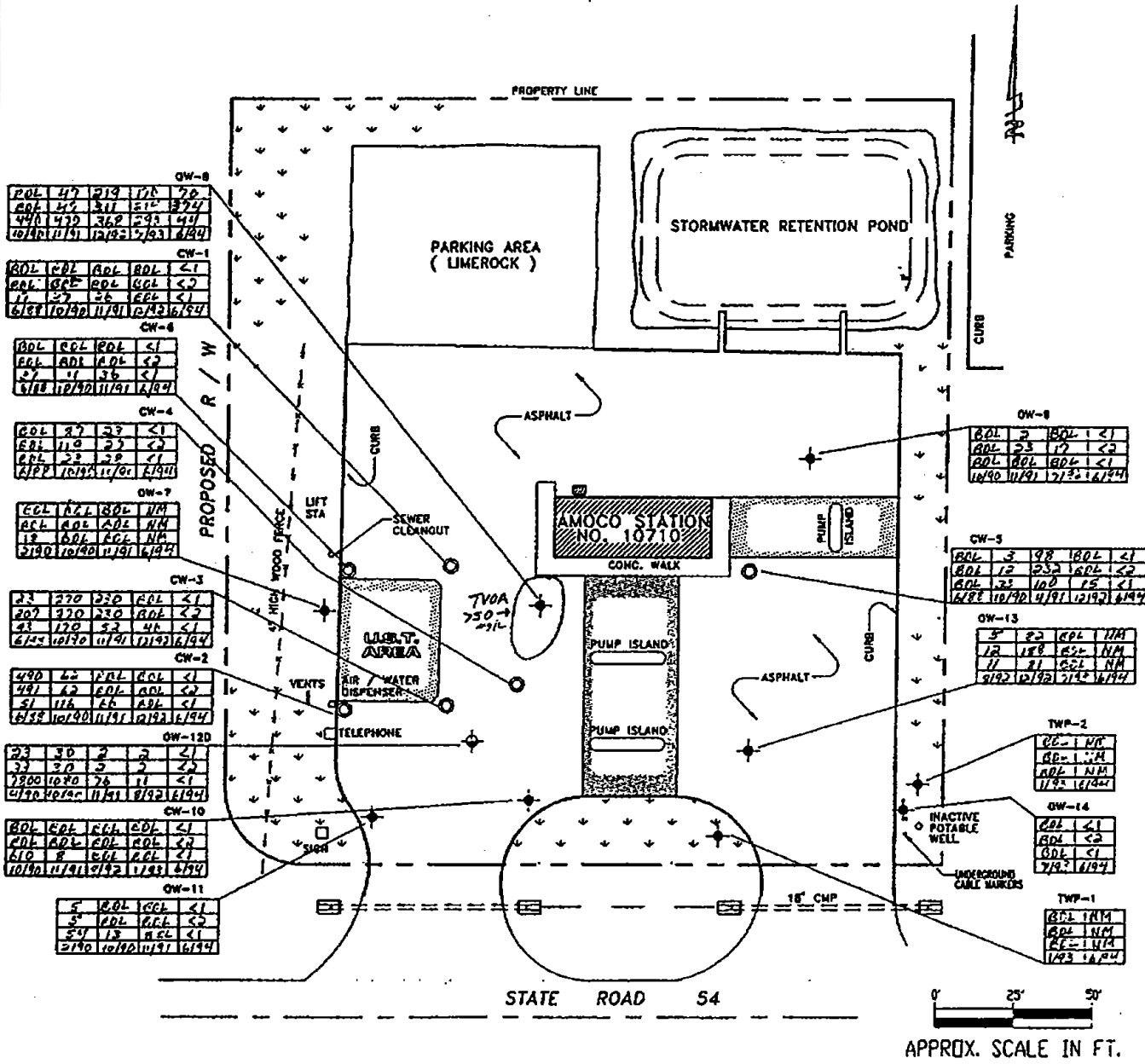
**Water
Equipment
Services, Inc.**
 P.O. BOX 1356
 SARASOTA, FLORIDA 34230
 PH. (813) 371-7617
 FAX (813) 378-5218

FIGURE 1

LEGEND:

- COMPLIANCE WELL
- ⊕ RECOVERY WELL
- ⊕ MONITOR WELL
- ⊕ DEEP MONITOR WELL
- ⊕ VAPOR RECOVERY WELL
- CONCRETE
- GRASS
- BUILDING
- CONC. WALK
- DATE

NOTE: ALL CONCENTRATIONS IN mg/L



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APPROVED BY:	DATE:

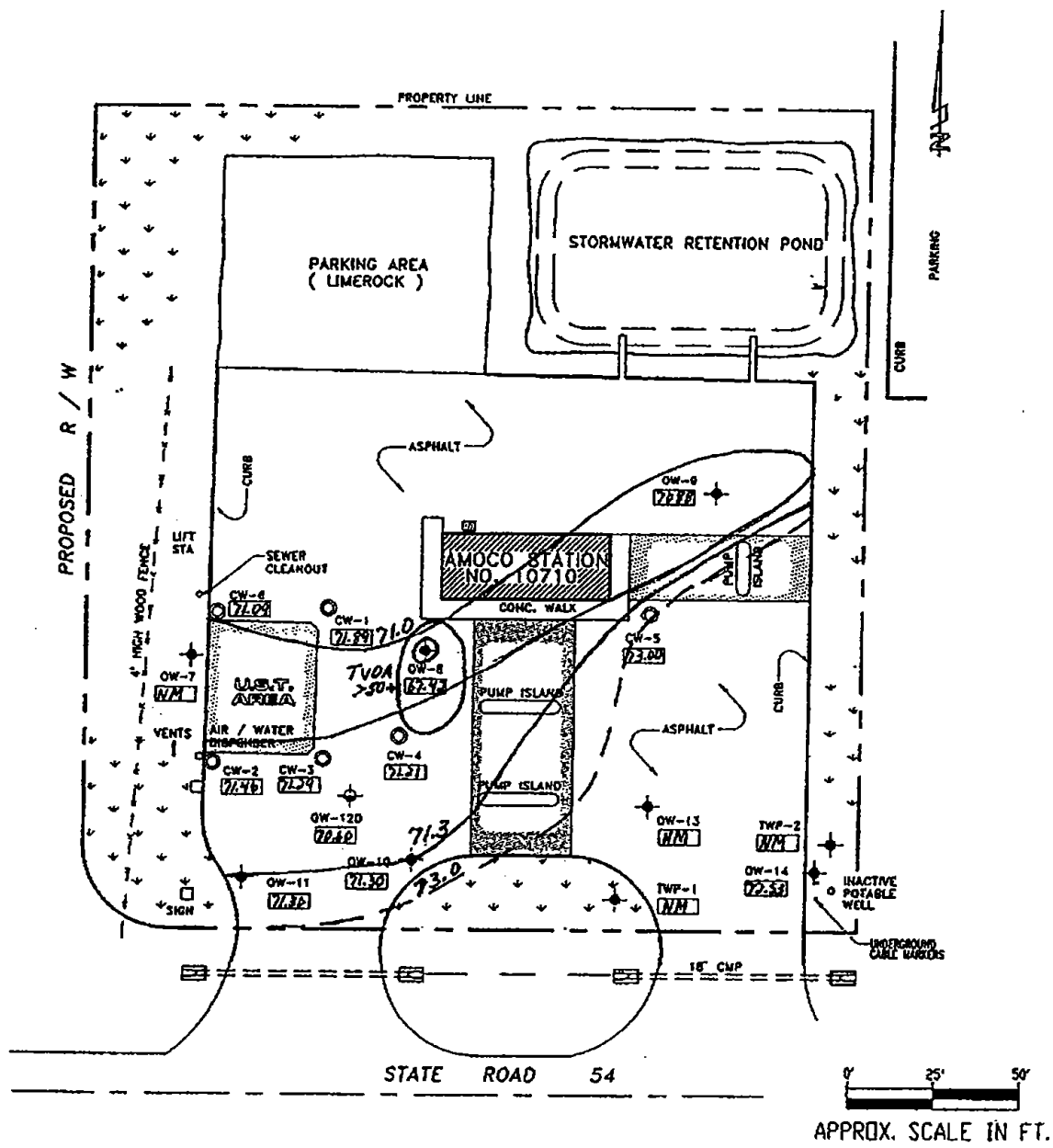
DISTRIBUTION OF DISSOLVED HYDROCARBONS
AMOCO STATION NO. 10710
AMOCO OIL COMPANY
I-75 & S.R. 54
WESLEY CHAPEL, FLORIDA

Water Equipment Services, Inc.
 P.O. BOX 1356
 SARASOTA, FLORIDA 34230
 PH. (813) 371-7617
 FAX (813) 378-3218

FIGURE 2

LEGEND:

- COMPLIANCE WELL
- RECOVERY WELL
- ⊕ MONITOR WELL
- ⊕ DEEP MONITOR WELL
- ⊕ VAPOR RECOVERY WELL
- ▨ CONCRETE
- ▨ GRASS
- ▨ BUILDING
- 08.00 WATER TABLE ELEVATION (FT.)
- DIRECTION OF DIRECTIONAL FLOW
- 05.0 WATER TABLE OUTSIDE (FT.)









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APPROVED BY:	DATE:

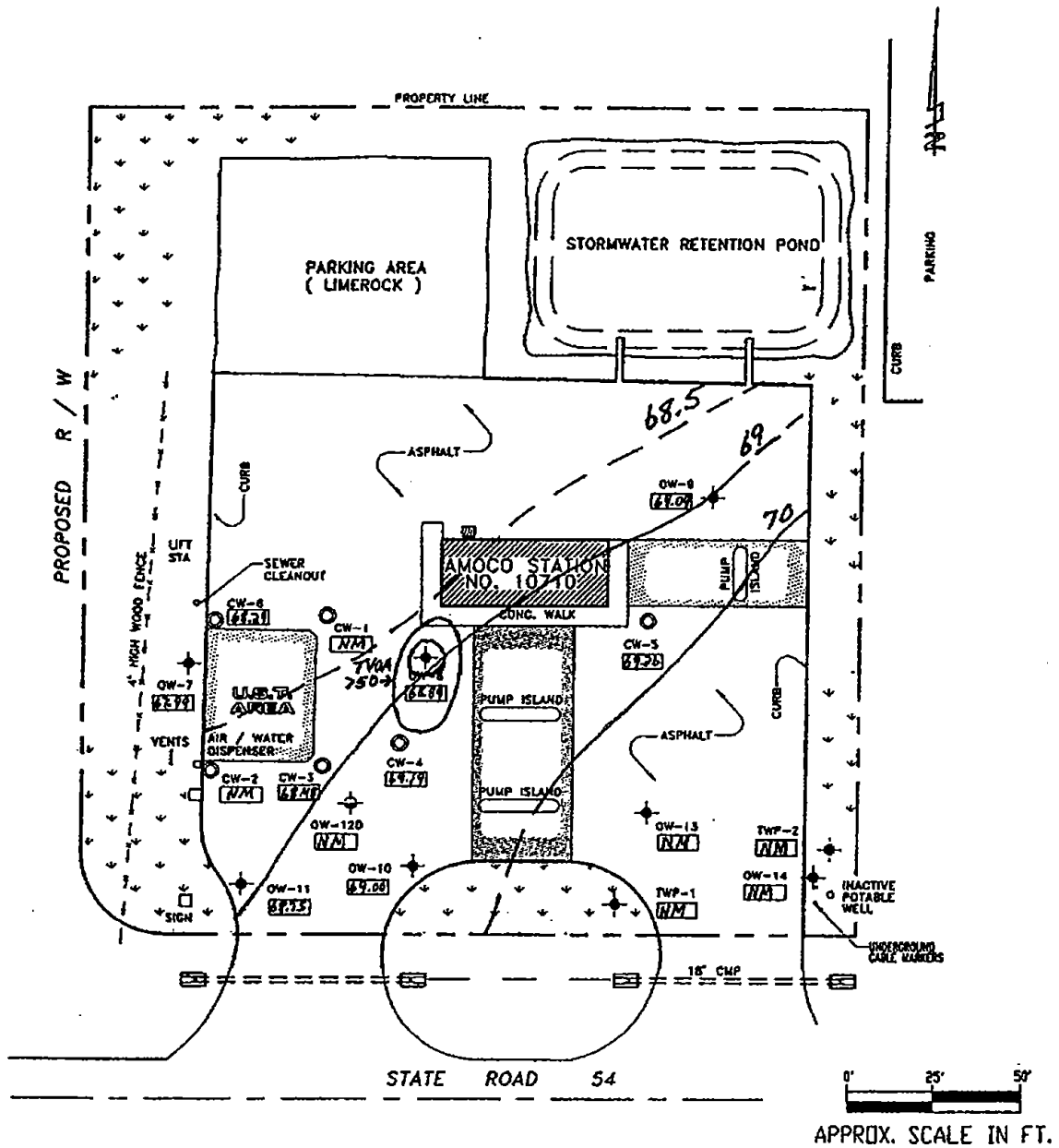
WATER TABLE CONTOUR MAP (June 23, 1994)
AMOCO STATION NO. 10710
AMOCO OIL COMPANY
I-75 & S.R. 54
WESLEY CHAPEL, FLORIDA

Water Equipment Services, Inc.
 P.O. BOX 1356
 SARASOTA, FLORIDA 34230
 PH. (813) 371-7617
 FAX (813) 378-5218

FIGURE 3

LEGEND:

○ COMPLIANCE WELL	 CONCRETE	 WATER TABLE ELEVATION (FT.)	 DIRECTION OF GROUNDWATER FLOW
○ RECOVERY WELL	 GRASS	 WATER TABLE ELEVATION (FT.)	
⊕ MONITOR WELL	 BUILDING		
⊕ DEEP MONITOR WELL			
⊕ VAPOR RECOVERY WELL			



DRAWN BY:	DATE:
REVISED BY:	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:

WATER TABLE CONTOUR MAP (June 03, 1994)
AMOCO STATION NO. 10710
AMOCO OIL COMPANY
I-75 & S.R. 54
WESLEY CHAPEL, FLORIDA

Water Equipment Services, Inc.
 P.O. BOX 1356
 SARASOTA, FLORIDA 34230
 PH. (813) 371-7617
 FAX (813) 378-5218

FIGURE 4



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

September 15, 1997

Mr. Randy Coil
Amoco Corporation
Remediation Services
600 Corporate Drive Suite 501
Ft. Lauderdale, Florida 33334

RE: Amoco Service Station Number 10710
15016 West Highway 54
Zephyrhills, Florida
Pasco County
FDEP Facility ID# ~~513520055~~

Dear Mr. Coil:

The Bureau of Petroleum Storage Systems has reviewed the Site Assessment Report and No Further Action Proposal (NFAP) dated August 11, 1997 (received August 11, 1997, submitted by Handex of Florida for the discharge discovered on June 21, 1988 at this site. Documentation submitted with the NFAP confirms that criteria set forth in Rule 62-770.600(13), Florida Administrative Code (F.A.C.), have been met. The NFAP is hereby incorporated by reference in this Order. Therefore, you are released from any further obligation to conduct site rehabilitation at the site, except as set forth below.

In the event concentrations of petroleum products' chemicals of concern increase significantly from the levels approved in this Order, or if a subsequent discharge of petroleum or petroleum products occurs at the site, the Department may require site rehabilitation to reduce concentrations of petroleum products' chemicals of concern to the levels approved through review of the NFAP or otherwise allowed by Chapter 62-770, F.A.C.

Persons whose substantial interests are affected by this Order have the right to challenge the Department's decision. Such a challenge may include filing a petition for an administrative determination (hearing) as described in the following paragraphs. However, you may request an extension of time to file such a petition. All requests for extensions of time or petitions for administrative determinations must be filed directly with the Department's Office of General Counsel at the address given below within 21 days of receipt of this Order (do not send them to the Bureau of Petroleum Storage Systems).

Mr. Coil
September 15, 1997
Page two

HOW TO FILE A PETITION FOR ADMINISTRATIVE HEARING

Notwithstanding the above, a person whose substantial interests are affected by this Order may petition for an administrative proceeding (hearing) in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, at the Douglas Office Building, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000, within 21 days of receipt of this Order. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the Department file number (FDEP facility number), and the name and address of the facility;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by each petitioner, if any;
- (e) A statement of facts which each petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes each petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by each petitioner, stating precisely the action each petitioner wants the Department to take with respect to the Department's action or proposed action.

This Site Rehabilitation Completion Order is final and effective on the date of receipt of this Order unless a petition (or time extension) is filed in accordance with the preceding paragraphs. Upon the timely filing of a petition, this Order will not be effective until further order of the Department.

Please be advised that mediation of this decision, pursuant to Section 120.573, F.S., is not available.

JUDICIAL APPEAL

Mr. Coil
September 15, 1997
Page three

When the Order is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, at the Douglas Office Building, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

The FDEP Facility Number for this site is 518520035. Please use this identification on all future correspondence with the Department.

QUESTIONS

Any questions you may have on the technical aspects of this Order should be directed to Donna Burmeister, P.G. at (850)487-3299. Contact with the above named person does not constitute a petition for administrative determination.

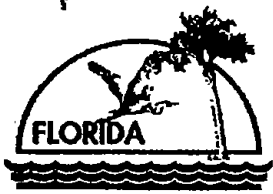
Sincerely,

John M. Ruddell, Director
Division of Waste Management

JMR/drb

w/ attachment

cc: FDEP Southwest District Office
Barry Reda, Handex of Florida, 4510 Oak Fair Blvd., Suite
120, Tampa, Florida 33610



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

CERTIFIED RETURN RECEIPT REQUESTED

March 3, 1999

Mr. Randy Coil
Amoco Corporation
Remediation Services
600 Corporate Drive Suite 501
Ft. Lauderdale, Florida 33334

**RE: Rescission of the No Further Action Proposal Order issued by the
Department on September 15, 1997
Amoco Service Station Number 10710
15016 West Highway 54
Zephyrhills, Pasco County Florida
DEP Facility ID # 518520035**

Dear Mr. Coil :

The Department has received the sampling information dated November 10, 1998 (received January 4, 1999) that indicated that the above referenced site no longer meets the criteria approved in the No Further Action Proposal. Therefore, pursuant to the NFA Order referenced above the Department is requiring site rehabilitation in order to reduce contaminant concentrations to the levels approved in the NFAP or otherwise allowed by Chapter 62-770, F.A.C.

Based upon the score of this site, funding is available for work at this site under the preapproval program. According to our records, the contractor performing the work is Handex. Please complete the enclosed "Contractor Designation Form" to confirm your choice of contractor. You may also use the enclosed form to designate an alternative contact if you would prefer that we coordinate our efforts with your representative. The form must be notarized and returned to Elizabeth Sheridan, Petroleum Cleanup Section 2, Mail Station 4545, as soon as possible.

You have the following options:

If you choose to accept the above decision by the Department about the rescission of the above referenced NFA order you do not have to do anything. This Order is final and

effective unless a timely petition for administrative hearing is filed 21 days after receipt of this order.

If you disagree with the decision, you may do one of the following within 21 days of receipt of this Order:

1. File a petition for administrative hearing with the Office of the General Counsel within 21 days after receipt of this Order.
2. File a request for an extension of time to file a petition for hearing with the Office of the General Counsel within 21 days after receipt of this Order. Such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for hearing.

Please be advised that mediation of this decision, pursuant to Section 120.573, Florida Statutes ("F.S.") is not available.

How to Request an Extension of Time to File a Petition for Hearing

A request for an extension of time to file a petition for hearing must be filed (received) in the Office of the General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida, 32399-3000, within 21 days after receipt of this Order. Pursuant to Rule 28-106.111(3), Fla. Adm. Code, the request for extension of time **shall contain a certificate that the moving party has consulted with all other parties**, if any, concerning the extension and that the Department and any other parties agree to said extension. Petitioner, if different from *Mr. Randy Coil* shall mail a copy of the petition to Mr. Randy Coil at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for administrative hearing must be filed **until the request is acted upon**.

How to file a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of the General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000, within 21 days after receiving this Order. Petitioner, if different from Mr. Randy Coil, shall mail a copy of the petition to Mr. Randy Coil, at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Rules 62-103.155, and 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information:

- a) The name, address, and telephone number of each petitioner, the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the DEP facility number, and the name and address of the facility;
- b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

- c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- d) A statement of the material facts disputed by the petitioner, if any;
- e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- f) A statement of which rules or statutes petitioner contends requires reversal or modification of the Department's action or proposed action; and
- g) A statement of the relief petitioner seeks, stating precisely what petitioner wants the Department to do regarding the Department's action or proposed action.

This Order is final and effective 21 days after receipt of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a Final Order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided pursuant to meetings with the Department.

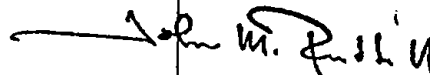
Judicial Review

When this Order becomes final, any party to this Order has the right to seek judicial review of this Order pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Department clerk in the Office of the General Counsel, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000. Simultaneously with filing a Notice of Appeal with the Department, Petitioner must file a copy of the Notice of Appeal with the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be received by the Department clerk within 30 days from the date this Order becomes final.

Questions

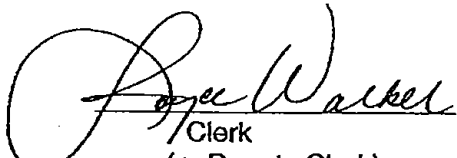
Should you have any questions regarding these processes please contact the Bureau of Petroleum Storage Systems at (850) 487 - 3299 or the Office of the General Counsel at (850) 488 - 9730. Any questions regarding the Department's review of your NFA rescission Order should be directed to Stephanie Perkins at (850) 487-3299. Contact with any of the above named persons does not constitute a petition for administrative hearing.

Sincerely,



John M. Ruddell, Director
Division of Waste Management

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

 3/3/99
Clerk Date
(or Deputy Clerk)

CC: Mr. Barry Reda, Handex of Florida
4510 Oak Fair Boulevard, Suite 120
Tampa, Florida 33610

File

Site No. 24 – Circle K #7475

**CONTAMINATION ASSESSMENT REPORT
FOR CIRCLE K STORES, INC.
CIRCLE K #7475
STATE ROAD 54 AND I-75
ZEPHYRHILLS, FLORIDA**

FDEP Facility No. 518520488

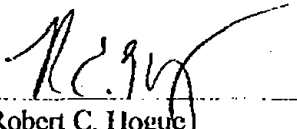
April 11, 1995

Prepared For:

Mr. Steve Belin
Circle K Stores, Inc.
5650 Breckenridge Parkway, Suite 300
Tampa, Florida 33619

ATEC ASSOCIATES, INC.

Prepared by:



Robert C. Hogue
Project Hydrogeologist

ATEC ASSOCIATES, INC.

Reviewed by:



Mark A. Wallinga
Project Manager



EXECUTIVE SUMMARY

On September 12, 1994, ATEC Associates, Inc. (ATEC) was authorized by the Circle K Corporation to conduct a Contamination Assessment (CA) of the Circle K #7475 facility, located west of the intersection of State Road 54 and Interstate 75, on State Road 54, Zephyrhills, Pasco County, Florida. During this assessment, ATEC collected soil samples from soil borings and monitoring well boreholes for analysis of total organic vapor concentrations using an Organic Vapor Analyzer fitted with a Flame Ionization Detector (OVA/FID). Seven shallow groundwater monitoring wells, one intermediate monitoring well, and one deep monitoring well were installed on-site during this assessment. Groundwater samples were collected from all monitoring wells and analyzed for the parameters which comprise the Kerosene Analytical Group as defined in Chapter 62-770 of the Florida Administrative Code (F.A.C.). A drive-by survey was conducted to determine local area land use and to locate potable water wells.

The results of the assessment indicate the approximate direction of groundwater flow in the surficial aquifer is generally to the southeast with an average hydraulic gradient of 0.003 vertical feet per horizontal foot (vft/hft). Depth to groundwater at the site ranged between two to four feet below land surface during the investigation. Numerous potable wells were identified within a one-quarter mile radius of the site. The soil analysis revealed total organic vapor concentrations of greater than 50 parts per million in the vicinity of the underground storage tank (UST) area. The assessment revealed the presence of dissolved petroleum hydrocarbons in the vicinity of the USTs. No free product was observed at the site during the contamination assessment, and therefore, no initial remedial actions were necessary.

- Surveyed top of casing elevations of each monitoring well with respect to a common datum so that water table elevations could be calculated;
- Measured groundwater levels to determine hydraulic gradient and approximate local groundwater flow direction;
- Collected groundwater samples from each monitoring well and had the groundwater samples analyzed for the Kerosene Analytical Group constituents specified in Chapter 62-770, F.A.C.;
- Conducted slug tests to determine aquifer characteristics; and
- Summarized the data in a technical report.

2.0 BACKGROUND INFORMATION

2.1 Area of Investigation

The site is located approximately one-quarter mile west of the intersection of State Road 54 and Interstate 75, Zephyrhills, Pasco County, Florida, in the Southwest quarter of the Northeast quarter of Section 12, Township 26 South, Range 19 East of the United States Geological Survey (USGS) Wesley Chapel, Florida Topographic Quadrangle Map. The topographic elevation of the site, as indicated on the USGS topographic quadrangle map, is approximately 70 feet above the National Geodetic Vertical Datum (NGVD). The site location is depicted on Figure 1.

The site consists of the main building, two dispenser islands, and four 10,000 gallon underground storage tanks (USTs) containing unleaded gasoline and diesel. The surface area at the facility is sealed with asphalt and concrete. Surface runoff is diverted to the east and west towards retention areas. The northern portion of the facility (behind the building) is covered with grass and trees. A site plan is provided as Figure 2.

2.2 Site History and Operations

The Circle K Corporation filed a Discharge Notification Form (DNF) with the Florida Department of Environmental Regulation (FDER) on July 5, 1988. The DNF was filed due to a reported discharge of approximately 100 gallons of leaded gasoline when a truck broke a leak detector associated with the Underground Storage Tank (UST) system. At that time, the Circle K Corporation requested that the site be accepted into the Early Detection Incentive (EDI) Program as

a "State Cleanup" site. The site was found eligible for reimbursement for the cost of cleanup of petroleum or petroleum product contamination under the EDI program in a letter dated November 4, 1988. At the request of the Circle K Corporation, this site was transferred from State Administered Cleanup status to Reimbursement status. The transfer from State Cleanup to the Reimbursement Program was confirmed by the Florida Department of Environmental Protection (FDEP) in a letter dated October 24, 1994. Supporting documentation is provided in Appendix A.

The UST, line and leak detection system testing history for the site is as follows:

- February 19, 1990 - the product lines and leak detector system was tested by Hunter Environmental Services, Inc. - system passed;
- September 9, 1991 - product lines and leak detectors were tested by NDE Testing and Equipment, Inc. - system passed;
- July 21, 1992 - UST system tested by ProEco, Inc. - system passed;
- February 14, 1993 - Product lines tested by AAA Tank Testers - system passed;
- September 3, 1993 - UST system tested by AAA Tank Testers - system passed;
- November 30, 1993 - diesel UST system tested by NDE Environmental Corporation - system passed; and
- March 9, 1994 - diesel UST system tested by NDE Environmental Corporation - system passed.

The UST system testing history indicates the UST system has passed testing requirements since February 19, 1990. A copy of the test results outlined above are provided in Appendix B.

2.3 Initial Remedial Action

No Initial Remedial Action (IRA) was required at this site during the CA due to the absence of detected free product.

2.4 Regional Geology and Hydrogeology

Regional geology and hydrogeology was obtained from the SWFWMD report *Groundwater Resource Availability Inventory: Pasco County (1987)*, and the USGS *Water Resources Investigation Report (USGS WRIR) #87-4259 (1988)*.

ethylene dibromide (EDB) concentrations in the groundwater sample collected from DMW-1 exceeded the FDEP Site Rehabilitation Levels (SRLs) established in 62-770 F.A.C. After conferring with the FDEP (refer to correspondence provided in Appendix E), DMW-1 was resampled on February 17, 1995 for EPA Methods 8020, 8310, and EDB. The resampling results for DMW-1 indicated that an additional deep monitoring well was needed to characterize the vertical extent of dissolved petroleum constituents. The additional deep monitoring well (DMW-2) was installed on March 9, 1995 and sampled on March 10, 1995. The groundwater sample collected from DMW-2 was analyzed for the KAG parameters. The groundwater chemistry results are summarized in Table 5 and a copy of the laboratory report is provided in Appendix I

Free product was not detected at this facility during the CA activities. The analytical data indicated that dissolved benzene concentrations range from less than 0.76 micrograms per liter (ug/l) to 72.08 ug/l. The dissolved total volatile organic aromatic (TVOA) concentrations ranged from 1.26 ug/l to 92.90 ug/l. The dissolved Total Naphthalene^S concentrations ranged from 1.28 ug/l to 227.28 ug/l. Figures 9 and 10 illustrate the approximate areal extent of the dissolved benzene and TVOA plumes, respectively. Also, the approximate areal extent of dissolved total Naphthalene^S is illustrated in Figure 11.

The vertical extent of dissolved petroleum contamination does not appear to extend beyond 40 feet bls based upon groundwater chemistry data collected from DMW-2. Monitoring well DMW-1 confirmed the presence of dissolved petroleum constituents at a depth interval of 25 to 30 feet bls.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the CA at Circle K #7475, located at SR 54 and I-75, Zephyrhills, Pasco County, Florida are summarized below:

- The Circle K Corporation filed a DNF with the FDEP on July 5, 1988;
- Tank and line test results since 1990 indicate the UST system tested tight;
- Land use adjacent to the facility is primarily commercial and undeveloped;
- Depth to water was encountered at approximately 2 to 4 feet bls. The direction of groundwater flow is generally to the southeast under a calculated average hydraulic gradient of 0.003 vft/hft;
- Total Organic Vapors were detected in concentrations greater than 50 ppm at the site. Based upon this data, excessively contaminated soils (as defined by Chapter 62-770, F.A.C.) are present at the facility;

- Dissolved petroleum hydrocarbon constituents from the Kerosene Analytical Group were detected in concentrations exceeding the state cleanup guidelines established in Chapter 62-770, F.A.C.
- Free product, as defined in Chapter 62-770, F.A.C., has not been detected at the site;
- Domestic and public supply wells were located within a one-quarter mile radius of the site; however, municipal supply wells were not identified within a one-half mile radius of the site; and
- According to SWFWMD (1988), the surficial aquifer beneath the site meets the requirements to be classified as a G-II aquifer.

Based upon the data presented in this report, the extent of soil and groundwater contamination appears to have been characterized and thus approval of the CAR is requested. Groundwater analytical data indicate that the horizontal extent of the dissolved plumes has been characterized to the northwest (upgradient) and to the southeast (downgradient). In addition, the data indicate that the vertical extent of the dissolved plume extends no further than 40 feet below land surface. Based on the findings of this investigation, a Remedial Action Plan (RAP) is recommended for this facility. Upon CAR approval, a RAP will be prepared and submitted to the FDEP for review and approval.

5.0 REFERENCES

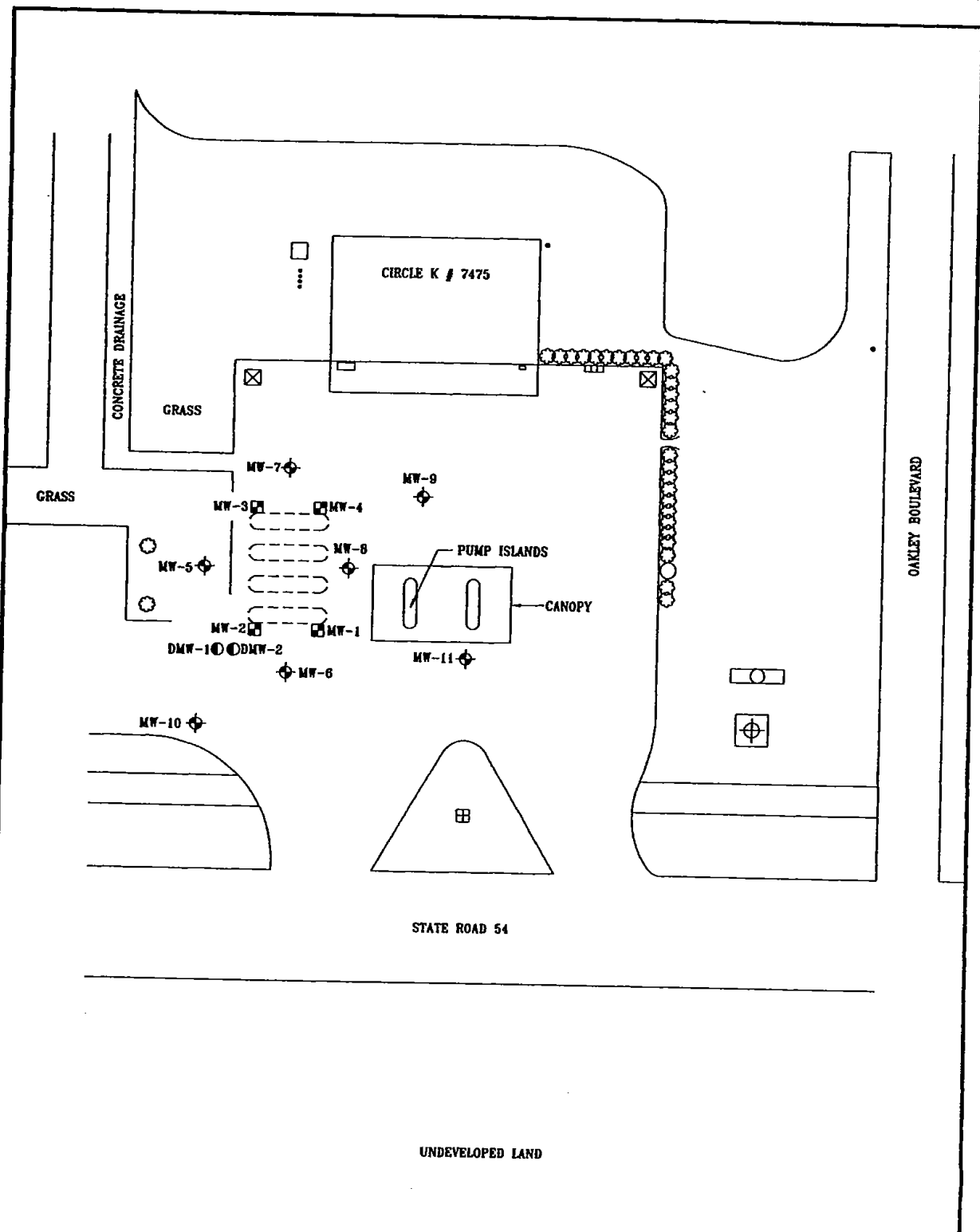
Southwest Florida Water Management District (SWFWMD), 1987, Ground-Water Resource Availability Inventory: Pasco County, Florida.

Bouwer, H. and R. C. Rice, 1976, *A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells*, Water Resources Research, Vol. 12, No. 3, pp. 423-428.

Driscoll, F. G., 1986, *Groundwater and Wells*, Johnson Division, St. Paul, Minnesota.

Southwest Florida Water Management District, 1988, *Groundwater Resource Availability Inventory: Pasco County, Florida*.

USGS Water Resources Investigation Report (USGS WRIR) #87-4259 (1988).

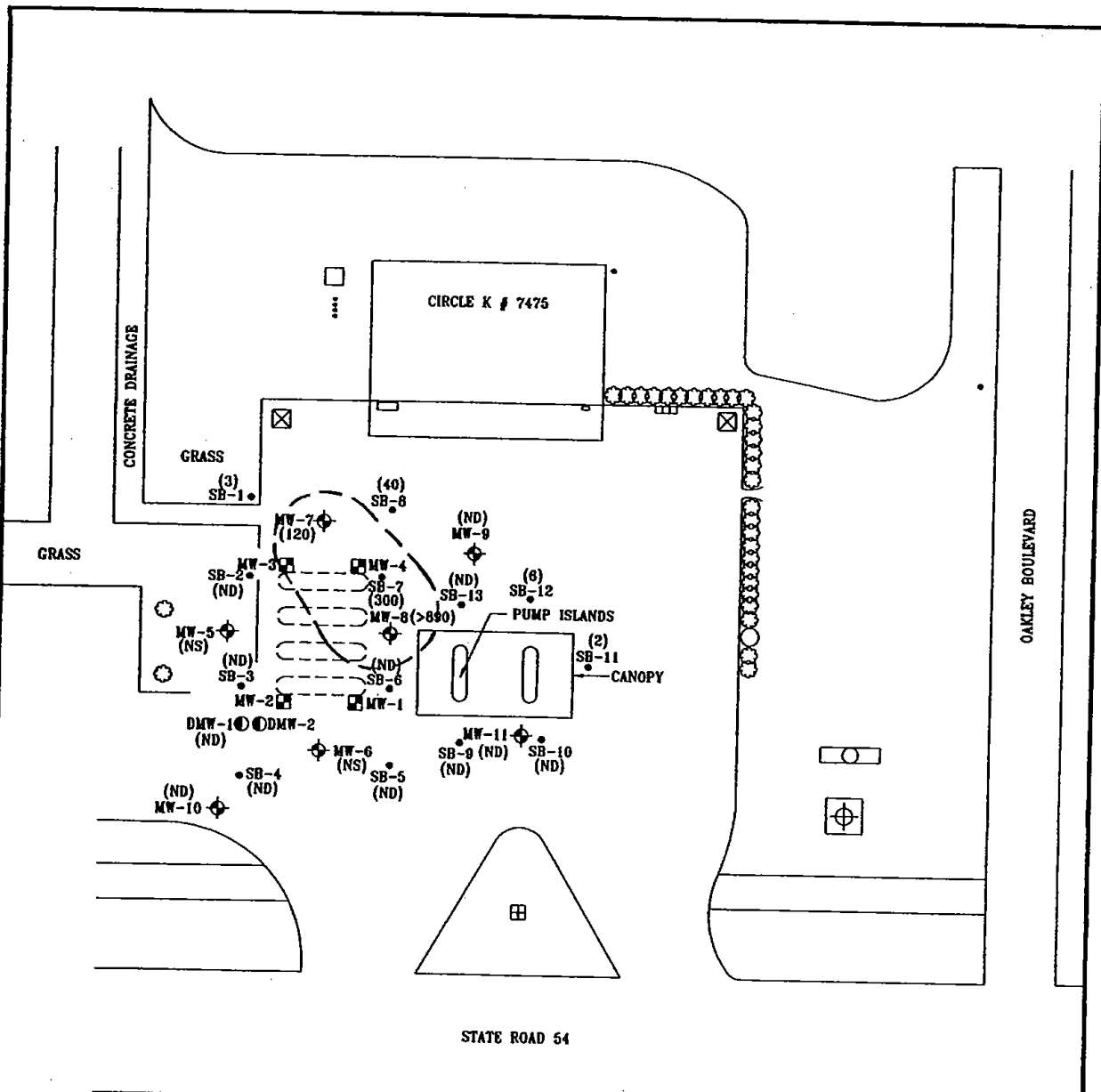


ATEC Associates Inc.
 1000 N. Ashley Drive, Suite 1000
 Tampa, Florida 33602
 (813) 221-8717
 (813) 221-9603 FAX

DRAWN BY: S.A.F. CHECKED BY: *MMS*

MONITORING WELL LOCATION PLAN
CIRCLE K #7475
STATE ROAD 54 AND INTERSTATE 75
ZEPHYRHILLS, FLORIDA

PROJECT No.:
 73-07-94-74752
 SCALE:
 1"=30'
 DATE: 3-27-95
 FIGURE No.: 3



OAKLEY BOULEVARD

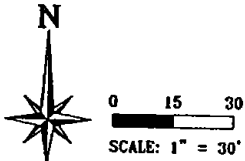
STATE ROAD 54

UNDEVELOPED LAND

LEGEND

	COMPLIANCE WELL
	DEEP MONITORING WELL
	MONITORING WELL WITH OVA/FID CORRECTED READING IN PPM
	SOIL BORING WITH OVA/FID CORRECTED READING IN PPM
	APPROXIMATE AREAL EXTENT OF EXCESSIVELY CONTAMINATED SOIL (>50 PPM OVA/FID)

NOTE:
SURFACE COVER ON SITE IS CONCRETE.

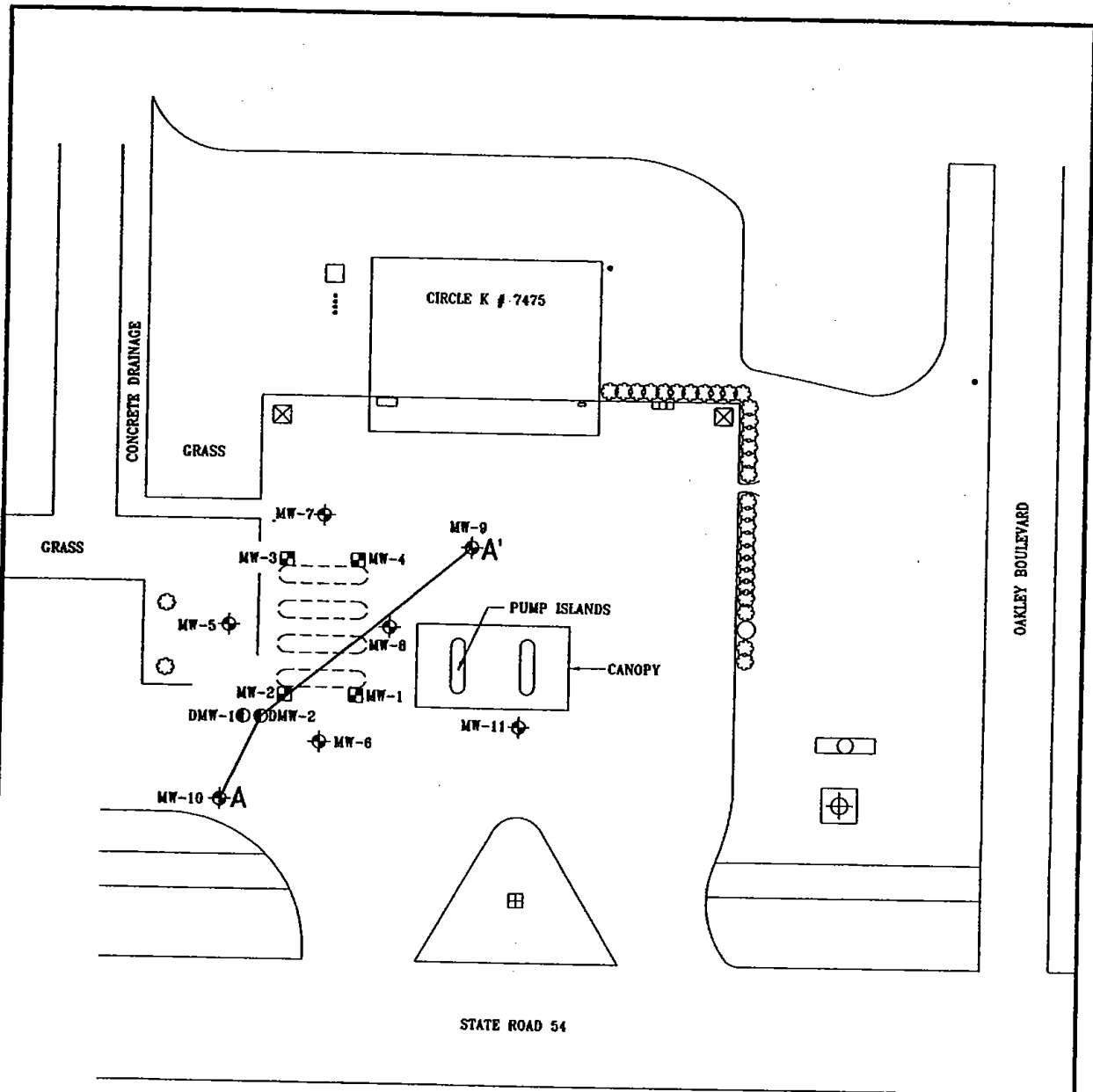


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 (813) 221-8717
 (813) 221-9663 FAX

SOIL BORING LOCATION PLAN
CIRCLE K #7475
STATE ROAD 54 AND INTERSTATE 75
ZEPHYRHILLS, FLORIDA

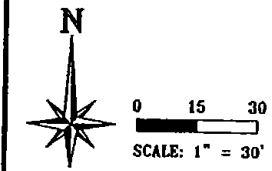
PROJECT NO.:
73-07-94-74752
 SCALE:
1"=30'
 DATE: 3-27-95
 FIGURE NO.: 4

DRAWN BY: S.A.F. CHECKED BY: *MAJ*



LEGEND	
⊕	MONITORING WELL
⊞	COMPLIANCE WELL
⊙	DEEP MONITORING WELL

NOTE:
SURFACE COVER ON SITE
IS CONCRETE.

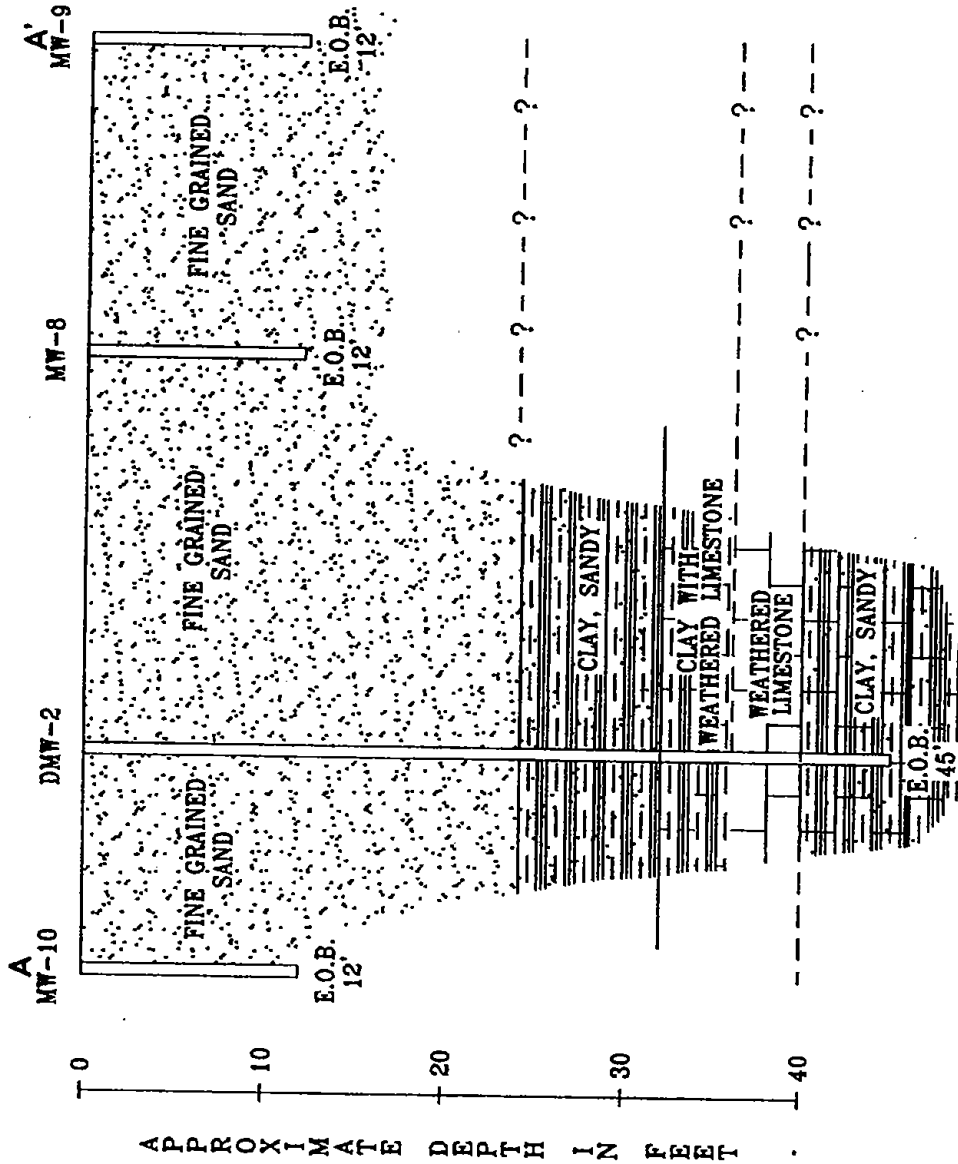


ATEC Associates Inc.
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GEOLOGIC CROSS-SECTION LOCATION PLAN
CIRCLE K #7475
STATE ROAD 54 AND INTERSTATE 75
ZEPHYRHILLS, FLORIDA

PROJECT NO.:
73-07-94-74752
SCALE:
1"=30"
DATE: 3-31-95
FIGURE NO.: 5

DRAWN BY: S.A.F. CHECKED BY: MAS



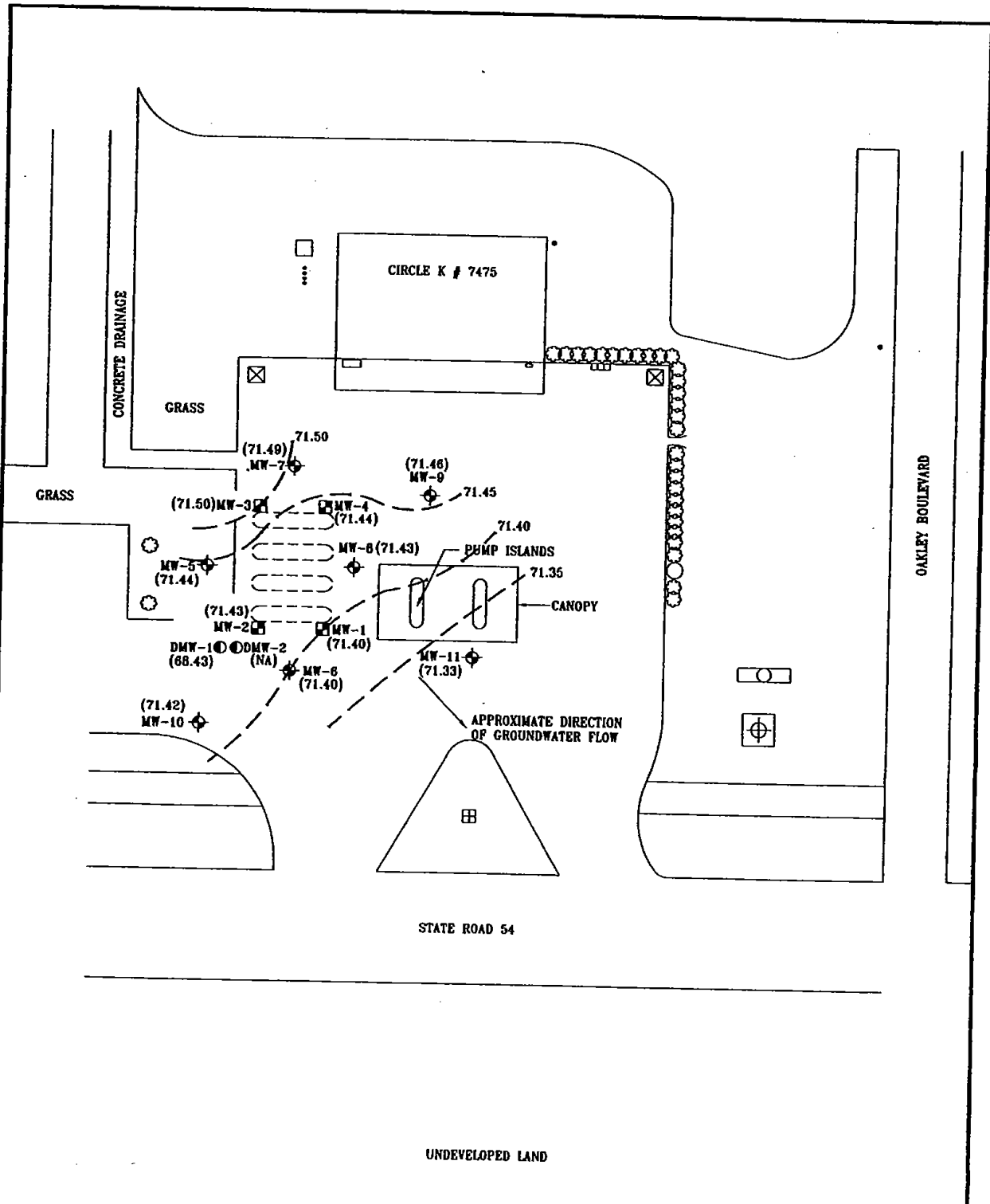
SCALE
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 10'

PROJECT NO.:
 73-07-94-74752
 SCALE:
 SEE ABOVE
 DATE: 3-31-95
 FIGURE NO.: 6

GEOLOGIC CROSS-SECTION A-A'
 CIRCLE K #7475
 STATE ROAD 54 AND INTERSTATE 75
 ZEPHYRHILLS, FLORIDA

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DRAWN BY: S.A.F. CHECKED BY: MMJ



LEGEND	
◆ (71.33)	MONITORING WELL WITH GROUNDWATER ELEVATION (FEET)
● (68.43)	DEEP MONITORING WELL WITH GROUNDWATER ELEVATION (FEET)
⊠	COMPLIANCE WELL
---	APPROXIMATE EQUIPOTENTIAL LINE (CONTOUR INTERVAL = 0.05 FEET)

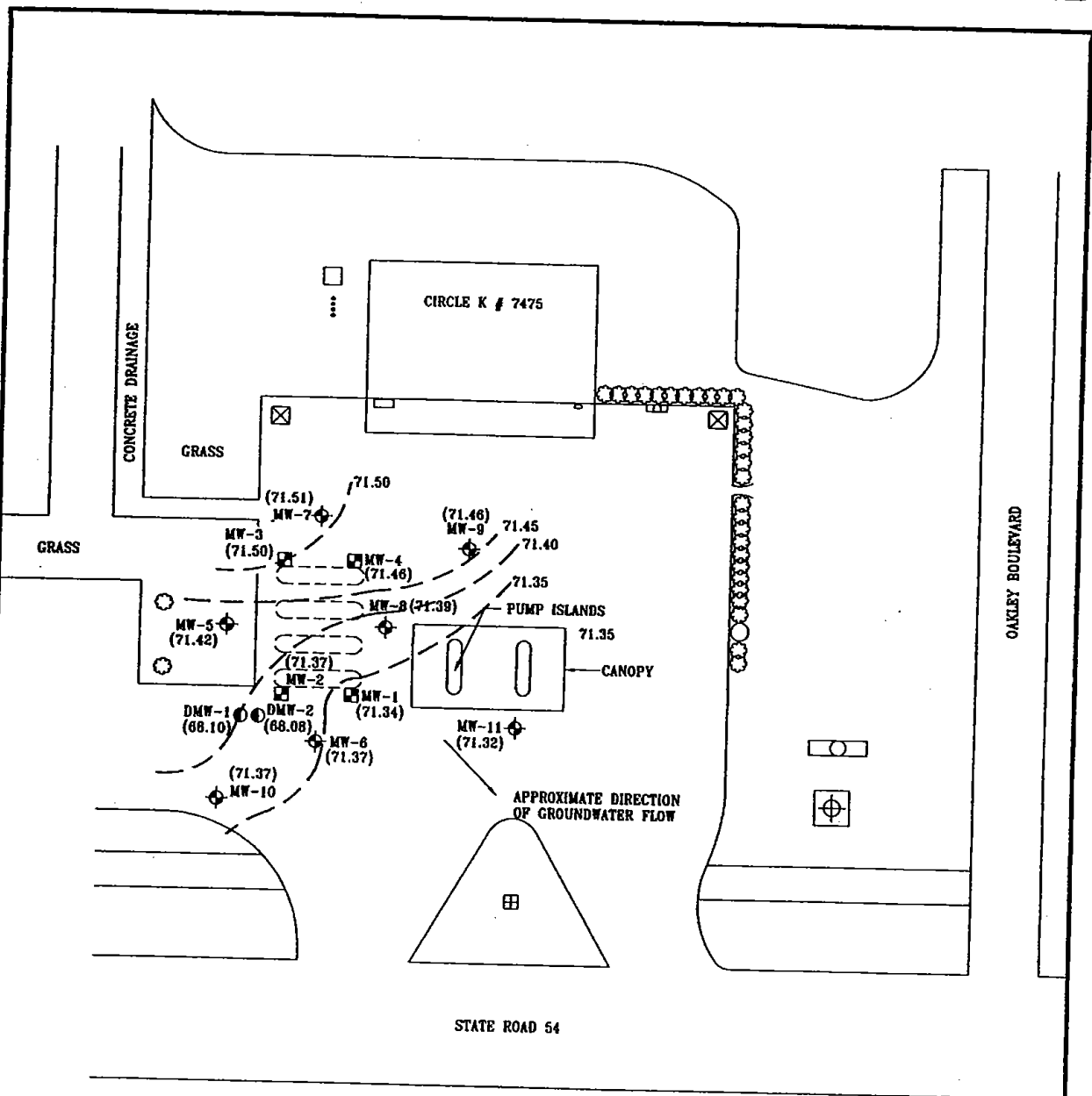
NOTE:
SURFACE COVER ON SITE IS CONCRETE.

ATEC Associates Inc.
1900 N. Ashley Drive, Suite 1000
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(813) 221-5717
(813) 221-9603 FAX

ESTIMATED GROUNDWATER CONTOUR MAP
FEBRUARY 1, 1995
CIRCLE K #7475
STATE ROAD 54 AND INTERSTATE 75
ZEPHYRHILLS, FLORIDA

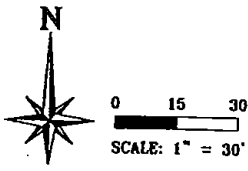
PROJECT NO.: 73-07-94-74752
SCALE: 1"=30'
DATE: 3-31-95
FIGURE NO.: 7

DRAWN BY: S.A.F. CHECKED BY: *MAW*



LEGEND	
◆ (71.32)	MONITORING WELL WITH GROUNDWATER ELEVATION (FEET)
● (68.10)	DEEP MONITORING WELL WITH GROUNDWATER ELEVATION (FEET)
☐	COMPLIANCE WELL
- - -	APPROXIMATE EQUIPOTENTIAL LINE (CONTOUR INTERVAL = 0.05 FEET)

NOTE:
SURFACE COVER ON SITE IS CONCRETE.

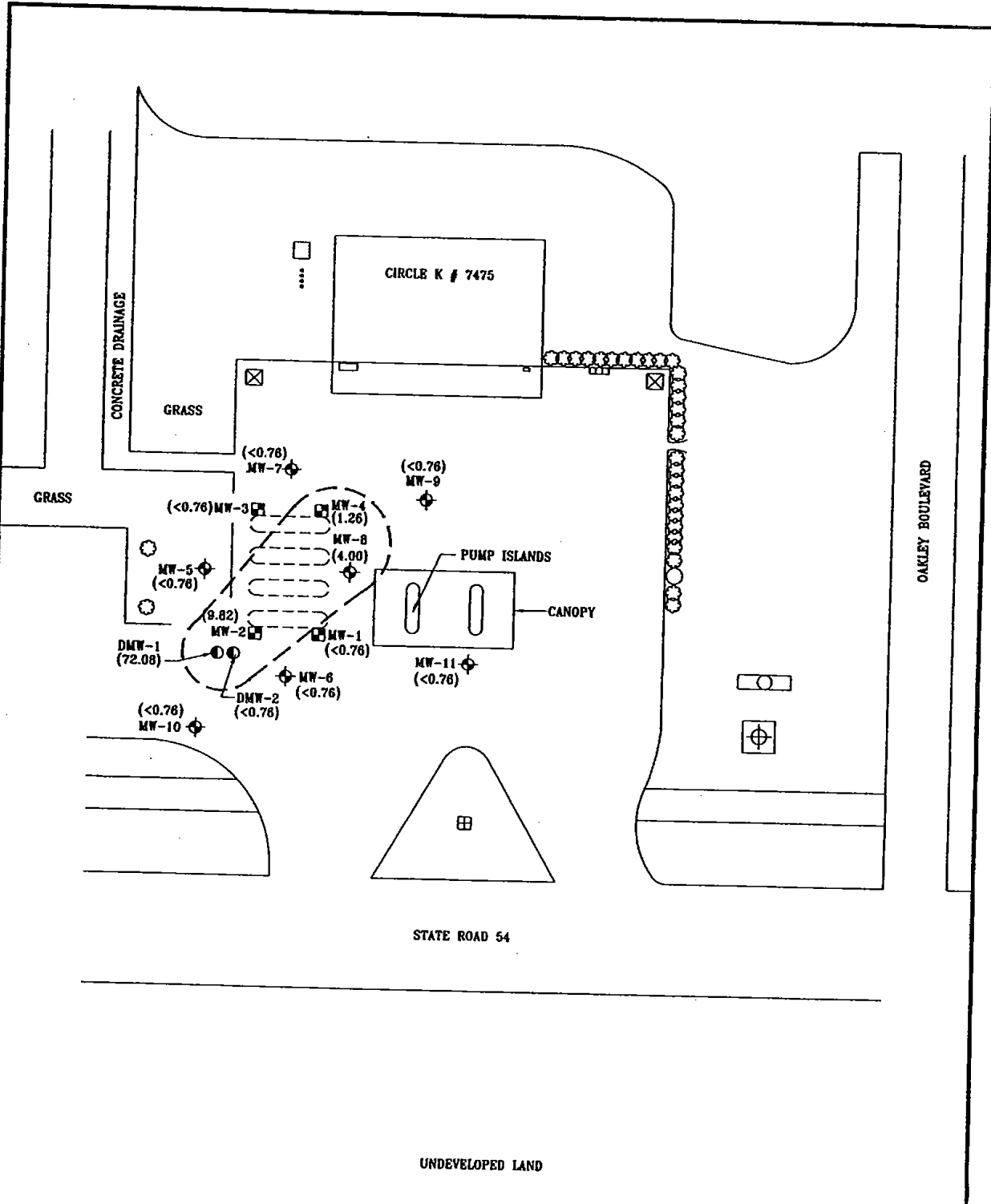


ATEC Associates Inc.
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ESTIMATED GROUNDWATER CONTOUR MAP
MARCH 10, 1995
CIRCLE K #7475
STATE ROAD 54 AND INTERSTATE 75
ZEPHYRHILLS, FLORIDA

PROJECT NO.:
73-07-94-74752
SCALE:
1"=30'
DATE: 3-31-95
FIGURE NO.: 8

DRAWN BY: S.A.F. **CHECKED BY:** M.A.P.



LEGEND	
\diamond MW-8 (4.00)	MONITORING WELL WITH DISSOLVED BENZENE CONCENTRATION IN ug/l
\circ DMW-1 (72.08)	DEEP MONITORING WELL WITH DISSOLVED BENZENE CONCENTRATION IN ug/l
\square	COMPLIANCE WELL
---	APPROXIMATE AREAL EXTENT OF DISSOLVED BENZENE = 1 ug/l (micrograms per liter)

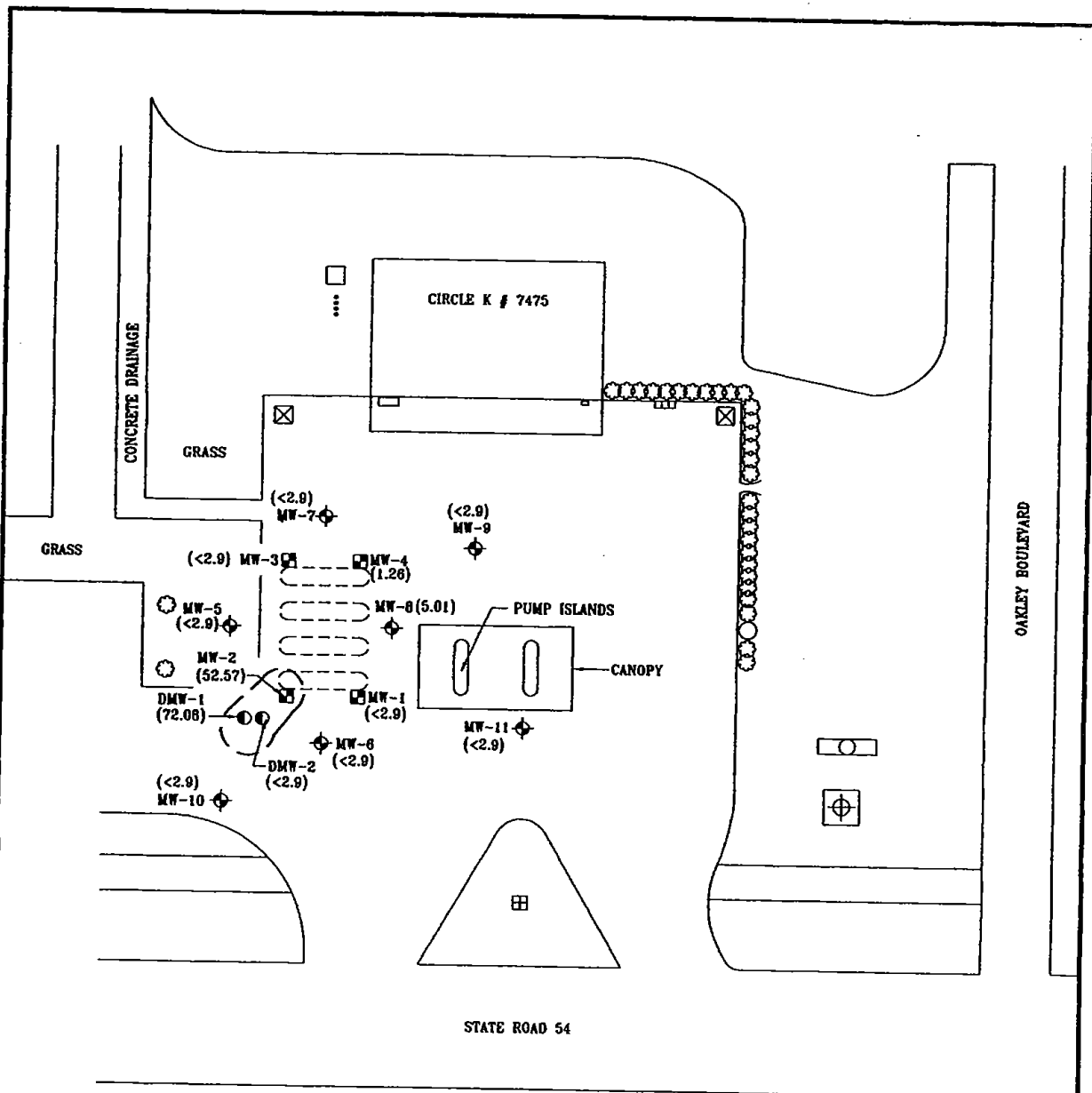
NOTE:
SURFACE COVER ON SITE IS CONCRETE.

ATEC Associates Inc.
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APPROXIMATE AREAL EXTENT OF DISSOLVED BENZENE
CIRCLE K #7475
STATE ROAD 54 AND INTERSTATE 75
ZEPHYRHILLS, FLORIDA

PROJECT NO.: 73-07-94-74752
SCALE: 1"=30'
DATE: 3-31-95
FIGURE NO.: 9

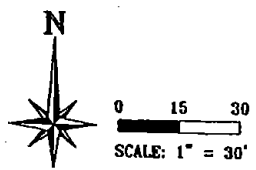
DRAWN BY: S.A.F. CHECKED BY: [Signature]



UNDEVELOPED LAND

LEGEND	
⊕ (5.01)	MONITORING WELL WITH DISSOLVED TOTAL VOA CONCENTRATION IN ug/l
⊙ (92.90)	DEEP MONITORING WELL WITH DISSOLVED TOTAL VOA CONCENTRATION IN ug/l
⊠	COMPLIANCE WELL
---	APPROXIMATE AREAL EXTENT OF DISSOLVED TOTAL VOA = 50 ug/l (micrograms per liter)

NOTE:
SURFACE COVER ON SITE IS CONCRETE.

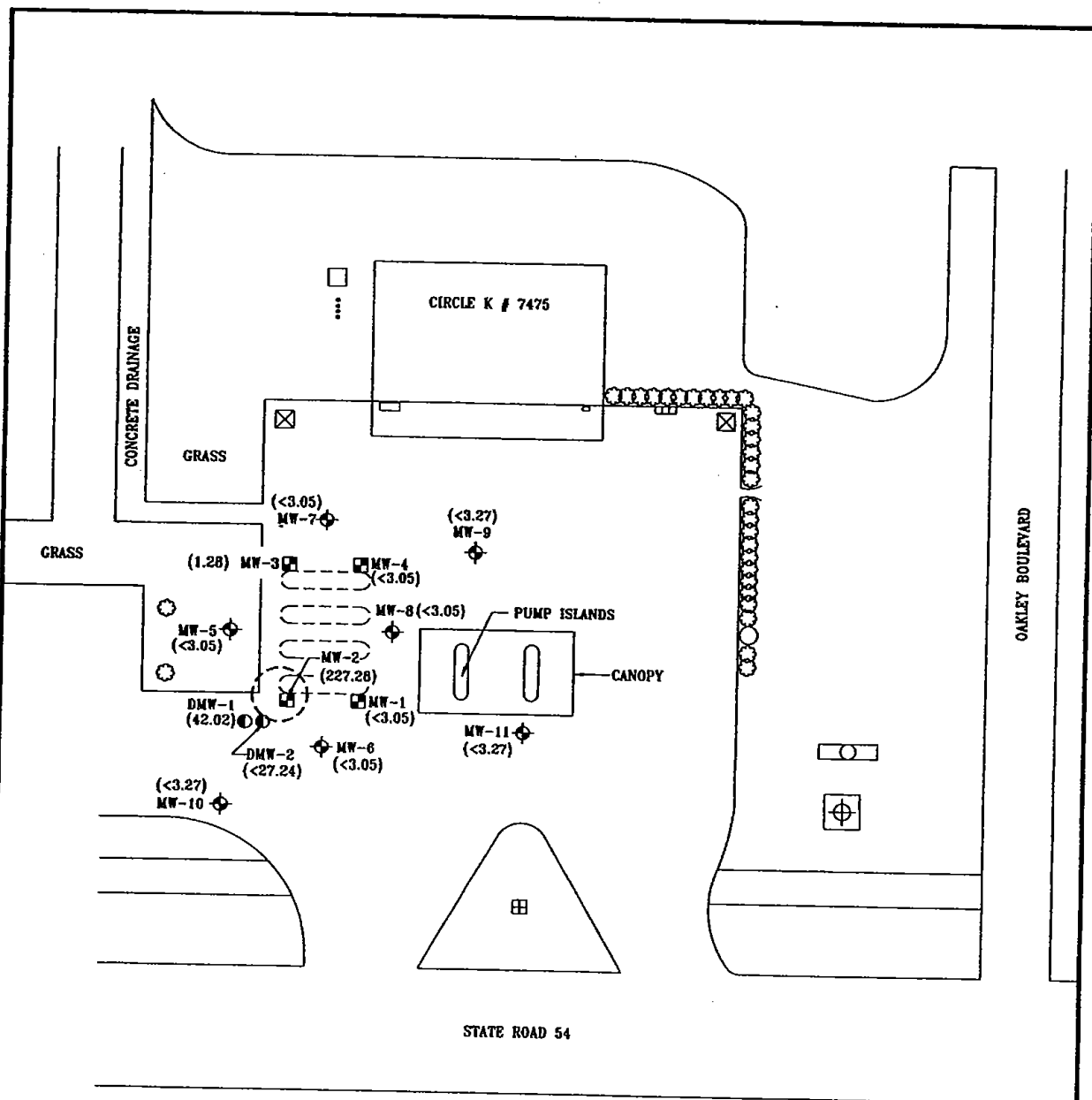


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DRAWN BY: S.A.F. CHECKED BY: *MAS*

APPROXIMATE AREAL EXTENT OF DISSOLVED TOTAL VOA
 CIRCLE K #7475
 STATE ROAD 54 AND INTERSTATE 75
 ZEPHYRHILLS, FLORIDA





PROJECT NO.:
73-07-94-74752
 SCALE:
1"=30'
 DATE: 3-31-95
 FIGURE NO.: 10



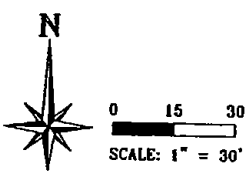
STATE ROAD 54

UNDEVELOPED LAND

LEGEND

-  MW-2 COMPLIANCE WELL WITH DISSOLVED (227.28) TOTAL NAPHTHALENE CONCENTRATION IN ug/l
-  DMW-1 DEEP MONITORING WELL WITH DISSOLVED (42.02) TOTAL NAPHTHALENE CONCENTRATION IN ug/l
-  MW-3 MONITORING WELL WITH DISSOLVED (1.28) TOTAL NAPHTHALENE CONCENTRATION IN ug/l
-  APPROXIMATE AREAL EXTENT OF DISSOLVED TOTAL NAPHTHALENE = 100 ug/l (micrograms per liter)

NOTE:
SURFACE COVER ON SITE IS CONCRETE.



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APPROXIMATE AREAL EXTENT OF DISSOLVED TOTAL
 NAPHTHALENE
 CIRCLE K #7475
 STATE ROAD 54 AND INTERSTATE 75
 ZEPHYRHILLS, FLORIDA

PROJECT NO.:
73-07-94-74752
 SCALE:
1"=30'
 DATE: 3-31-95
 FIGURE NO.: 11

DRAWN BY: S.A.F. CHECKED BY: *MAP*



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

RECEIVED

OCT 25 1993

NATURAL RESOURCES MGT.

October 12, 1993

Director of Waste Cleanup

Mr. Dennis Hurst
Staff Manager
ECM - Central/SE FL.
BELLSOUTH Telecommunications, Inc.
1st Floor
1501 South Semoran Boulevard
Orlando, Florida 32202

NOV 8 1993

Petroleum Cleanup Section

Report of an Underground Storage Tank Closure
Southern Bell - Melbourne Village SOC
7747 Ellis Road
Melbourne, Florida
Law Engineering Project Number 534-05755-01

Dear Mr. Hurst:

Law Engineering, Inc. (LAW) is pleased to submit this report documenting our field and laboratory testing program, findings, and the laboratory results related to the underground storage tank (UST) closure performed at the subject property. Our services were performed in general accordance with our Agreement No. SR-0382-S for Environmental and Engineering Consulting Services between Law Companies Group, Inc. and BELLSOUTH Services Inc. Authorization for our services was provided by Mr. Michael J. Crapp, Associate Manager-Branch Procurement of Southern Bell.

The UST closure was performed in general accordance with the Florida Department of Environmental Protection (FDEP) "Pollutant Storage Tank Closure Assessment Requirements" dated April 1993. We have included in Appendix F a completed copy of the Closure Assessment Form No. 17.761.900(6).

LAW ENGINEERING, INC.

585 N.W. 161ST STREET • MIAMI, FL 33169
305-944-9268 • FAX 305-944-5562

ONE OF THE LAW COMPANIES



1.0 BACKGROUND INFORMATION

As shown on the Site Location Map (Figure #1) in Appendix A, the subject property is located at 7747 Ellis Road in Melbourne, Florida. The property is developed with three one-story buildings, an adjacent parking lot and a landscaped area. The facility operates as a Service Operation Center (SOC) for Southern Bell. As part of its vehicle storage and maintenance operations, the facility operated a gasoline fuel pumping island. The fuel island was located on the southeastern section of the property within the parking lot area.

As illustrated on the Site Plan in Appendix A, the fuel island consisted of five gasoline fuel dispensers and air/water dispensers, situated underneath a canopy. The gasoline was stored in a 12,000 gallon UST situated underneath the eastern side of the fuel island concrete pad. During our initial site visit on June 28, 1993, we observed four compliance wells situated along the perimeter of the UST, within the concrete pad. The compliance wells were equipped with a product and vapor leak detection device. The fuel station was no longer in operation at the time of our visit.

As part of our services, Law Engineering prepared requirements/specifications for the removal of the UST at the Melbourne Village SOC. These specifications are presented below:



SUMMARY OF SERVICES PERFORMED Melbourne Village SOC 7747 Ellis Road Melbourne, Florida Contractor: Florida Underground Petroleum Tank Contractors, Inc. Dates Performed: August 13, 1993 through September 9, 1993	
Date	Services Performed
Sept. 9, 1993	Excavated Soils were hauled from site, to Geologic Recovery Systems, Inc. and incinerated. Field Activities were completed.

The soils were excavated using a track mounted backhoe. In an attempt to minimize disrupting the vehicle storage and maintenance operations, we consulted with Southern Bell maintenance personnel from the Melbourne Village SOC in order to establish the most appropriate location to stockpile the contaminated soils. The soils were stockpiled, as shown on the Site Plan in Appendix A, at a location south of the former fuel island.

The disposal of the construction debris was performed by ABC Landclearing. The UST was observed to contain approximately less than one gallon of gasoline. This product was pumped out by Magnum Tank Service, Inc. In addition, approximately 473 gallons of free floating product was pumped out of the excavation pit by Magnum Tank Services, Inc. Dry ice was poured into the UST until readings obtained from the explosimeter were below the lower explosive limit (LEL) of gasoline. Once removed from the excavation pit, the UST was hauled from site by FUPTC. A manifest for the disposal of the UST is provided in Appendix D.

The UST was identified as a double wall fiberglass/steel tank with a capacity of approximately 12,000 gallons. The tank, as illustrated on PHOTO # 3, was observed to be intact, with no apparent holes or damage. However, based on the observed soil and groundwater contamination, it appears that a leak from the product lines located on the northwestern corner of the UST had occurred during the tank operation.

A total of approximately 285 tons of contaminated and excessively contaminated soils were excavated from the tank pit. These soils were hauled away from the subject property on September 9, 1993 by Transoil, and incinerated at Geologic Recovery Systems, Inc. located in Mulberry, Florida. We have provided a copy of the manifest for the soil disposal in Appendix D.

FUPTC contacted Ms. Rosemary Wiggins from the Brevard County Natural Resources Management Division prior to initiating our field services. Ms. Wiggins was present at several different occasions during our closure activities. Ms. Wiggins elected not to split groundwater samples with LAW.



SOIL LABORATORY RESULTS			
LOCATION	PARAMETER	CONCENTRATION DETECTED (ppm)	FDEP STANDARDS FOR CLEAN SOIL (ppm)
Stockpile	Barium	11	2750
	Chromium	4.5	275
	Xylenes	3.5	100
	TRPH	55	10
Stockpile (Duplicate)	Barium	9.8	2750
	Chromium	5.0	275
	Xylenes	24	100
	TRPH	180	10

The implications of the data collected as part of this assessment is included in the Evaluations and Recommendations section of this report.

5.0 EVALUATION AND RECOMMENDATIONS

The following sections presents a summary of the tank excavation assessment, our evaluations and conclusions.

The storage tank closure was initiated on August 13, 1993. Our field services were completed on September 10, 1993. As part of our services, we removed one 12,000 gallon UST and related piping from the subject property.

During the soil excavation, we identified free floating product on the groundwater. Magnum Tank Service, Inc. pumped out of the tank pit approximately less than one gallon of product. Total petroleum hydrocarbon vapor levels exceeding 500 ppm as measured using an OVA were detected throughout the tank excavation pit. As a result, an Initial Remedial Action (IRA) was implemented. A total of approximately 285 tons of contaminated and excessively contaminated soils, as defined by Chapter 17-770 of the FAC were hauled from the site and properly disposed. It is noted that an IRA report will be submitted to FDEP under a separate cover, as required under Chapter 17-770 of the FAC.

Based on the groundwater laboratory results, detectable concentrations of several parameters from the collected groundwater samples from monitoring well locations, MW#2 and MW#3, were detected at levels exceeding the FDEP groundwater standards, as defined in Chapter 17-770.700 of the FAC. The location of these wells are illustrated on the Site Plan in Appendix



A. The groundwater laboratory results for the other two monitoring wells tested, MW #1 and MW #3, suggest that an impact of regulatory consequences has not occurred at these locations.

Therefore, based on these laboratory results, it appears that an impact to the groundwater has occurred at locations north and east of where the former tank was situated. The horizontal and vertical extent of the contamination was not firmly establish. However, based on the concentration levels encountered, the facility would meet the FDER criteria for "monitoring only" status", and further assessment would not, in our opinion, be likely required by the State.

The subject property is registered by the State in the Early Detection Incentive (EDI) State Cleanup Program. This is a State funded program which administers the clean-up of petroleum contaminated sites. Once granted eligibility, a ranking in order of priority for State cleanup is assigned. The subject site was granted eligibility to this EDI program as a result of a reported petroleum product discharge in 1989. The discharge was reportedly caused by leaking pipes related to retrofitting activities along the northern section of the fuel station island.

Based on this information and our field observations, the observed soil and groundwater contamination was likely a result of this same reported discharge. As a result, based on our conversation with Ms. Rosemary Wiggins of the Brevard County Natural Resources Management Division, no Discharge Notification Form (DNF) was required for submittal to FDEP.

Since the subject site is in the EDI State Cleanup program, a Contamination Assessment Report (CAR) by BELLSOUTH is not required by the State. The State will eventually assess and remediate the site as necessary once the site's ranking warrants it. We note that it could be years until this occurs.

However, should BELLSOUTH want to further evaluate the observed soil and groundwater contamination, a request to transfer the facility from the EDI State program to the EDI Reimbursement program could be performed. Once this is performed, FDEP would require a CAR and Remediation Action Plan (RAP) to be submitted. This would allow BELLSOUTH to seek direct reimbursement for the assessment and remediation of the subject site from the State. Furthermore, BELLSOUTH would be eligible for reimbursement for the IRA costs already incurred during tank removal.

However, should BELLSOUTH choose to remain in the State cleanup program, and not transfer into the State reimbursement program, groundwater contamination levels may and most likely would tend to decrease through natural degradation by the time an assessment is implemented by the State. Since it is unknown when the State would perform an assessment for this facility, the groundwater constituent concentration levels may decrease to such a level where a "monitoring only plan" or "no further action" status would likely be granted by the State.



Based on these findings, it is our opinion that additional groundwater sampling should be performed in order to firmly establish the extent of the observed groundwater contamination. This sampling would serve as a monitoring only plan, and would be implemented quarterly, until the dissolved contaminant levels identified would no longer exceed the levels required in order to meet a "no further action" status..



Ms. Janette Cousins
Petroleum Cleanup Section 5
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

January 16, 2002

ENTERED RECEIVED BY

JAN 22 2002

TEAM 5

Subject: Natural Attenuation Monitoring Report - Second Quarter
Circle K Store #7475
Zephyrhills, Florida
FDEP Work Order No. 2001-95-0671-0
FDEP Facility No. 518520488

ORIGINAL

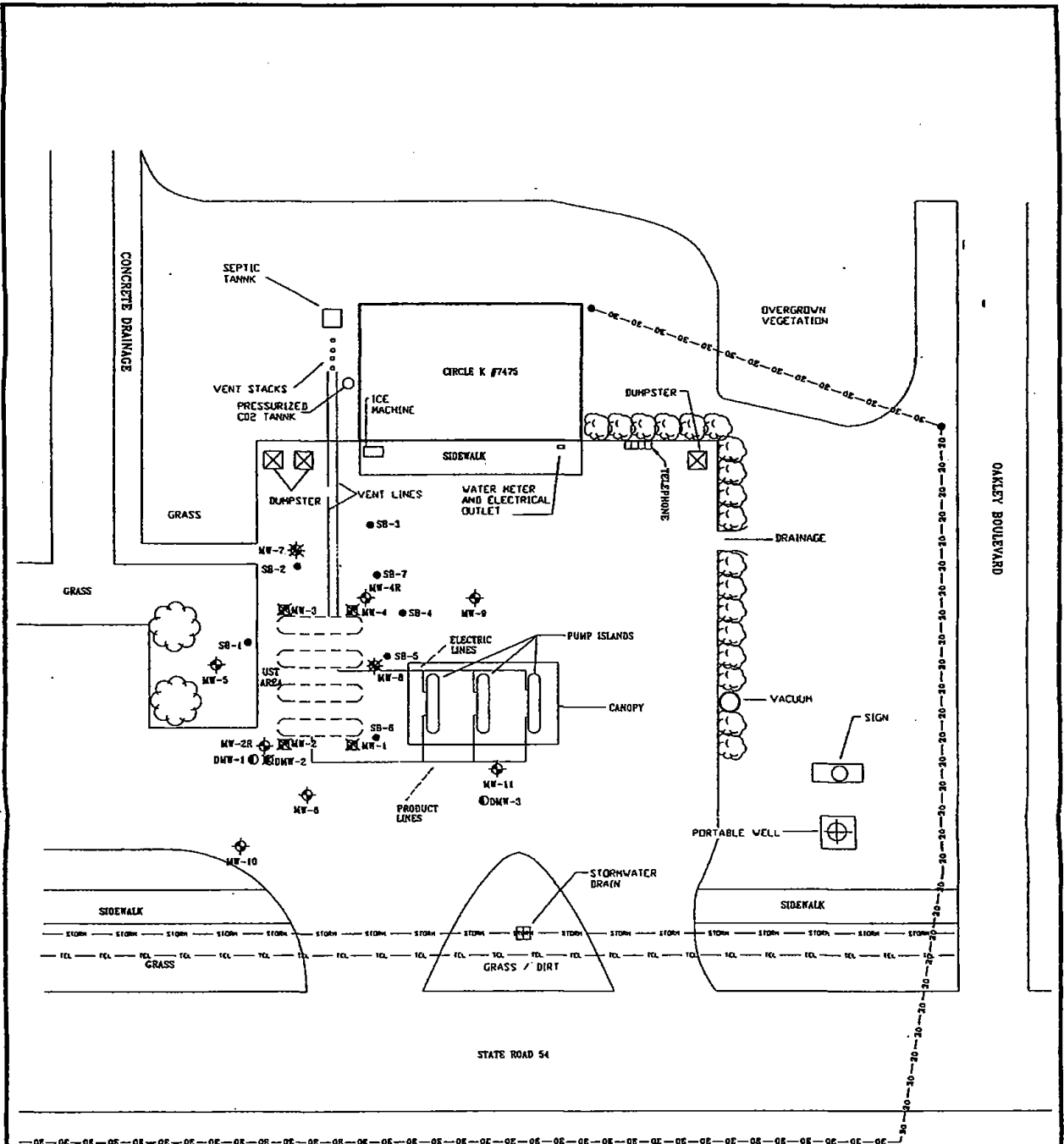
Dear Ms. Cousins:

ATC Associates Inc. (ATC) has completed the scope of services specified in the above referenced Florida Department of Environmental Protection (FDEP) Pre-Approval Work Order. The following scope of services were completed for the Second Natural Attenuation Quarterly Report:

1. ATC mobilized to the site on November 26, 2001 and measured depth to groundwater in monitoring wells MW-2R, MW-4R, MW-5, MW-6, MW-9, MW-10, MW-11, DMW-1 and DMW-3 (See Figure 1) in conjunction with the sampling event. The well specifications, groundwater level measurements, and the calculated water table elevations are presented in Table 1.
2. ATC collected groundwater samples from MW-2R, MW-4R, MW-9, MW-11, DMW-1 and DMW-3 for analysis of BTEX and MTBE by EPA Method 8021 and PAH by EPA Method 8310. The analytical results are summarized in Table 2. A copy of the laboratory report and the water sampling logs are provided in Appendix A.

The results of the assessment activities are summarized below:

1. Depth to groundwater ranged from approximately 5.53 to 6.25 feet below land surface (bls) in the shallow monitor wells and from approximately 5.38 to 9.50 in the deep monitor wells. A groundwater elevation contour map is presented as Figure 2. The water level in DMW-1 historically has been three to six feet lower than that of the water table wells, indicating a vertical groundwater gradient. Based on data collected on November 26, 2001, groundwater flow appears to be to the southeast. Historical data has indicated groundwater flow to the west.
2. Dissolved BTEX or MTBE were not detected above the Chapter 62-777 Target Cleanup Levels (target levels) in the samples collected from monitoring wells MW-2R, MW-4R, MW-



LEGEND	
	MONITORING WELL LOCATION
	COMPLIANCE WELL LOCATION
	SOIL BORING LOCATION
	DEEP MONITORING WELL
	DESTROYED WELL LOCATION

NOTE:
SURFACE COVER ON SITE
IS CONCRETE.

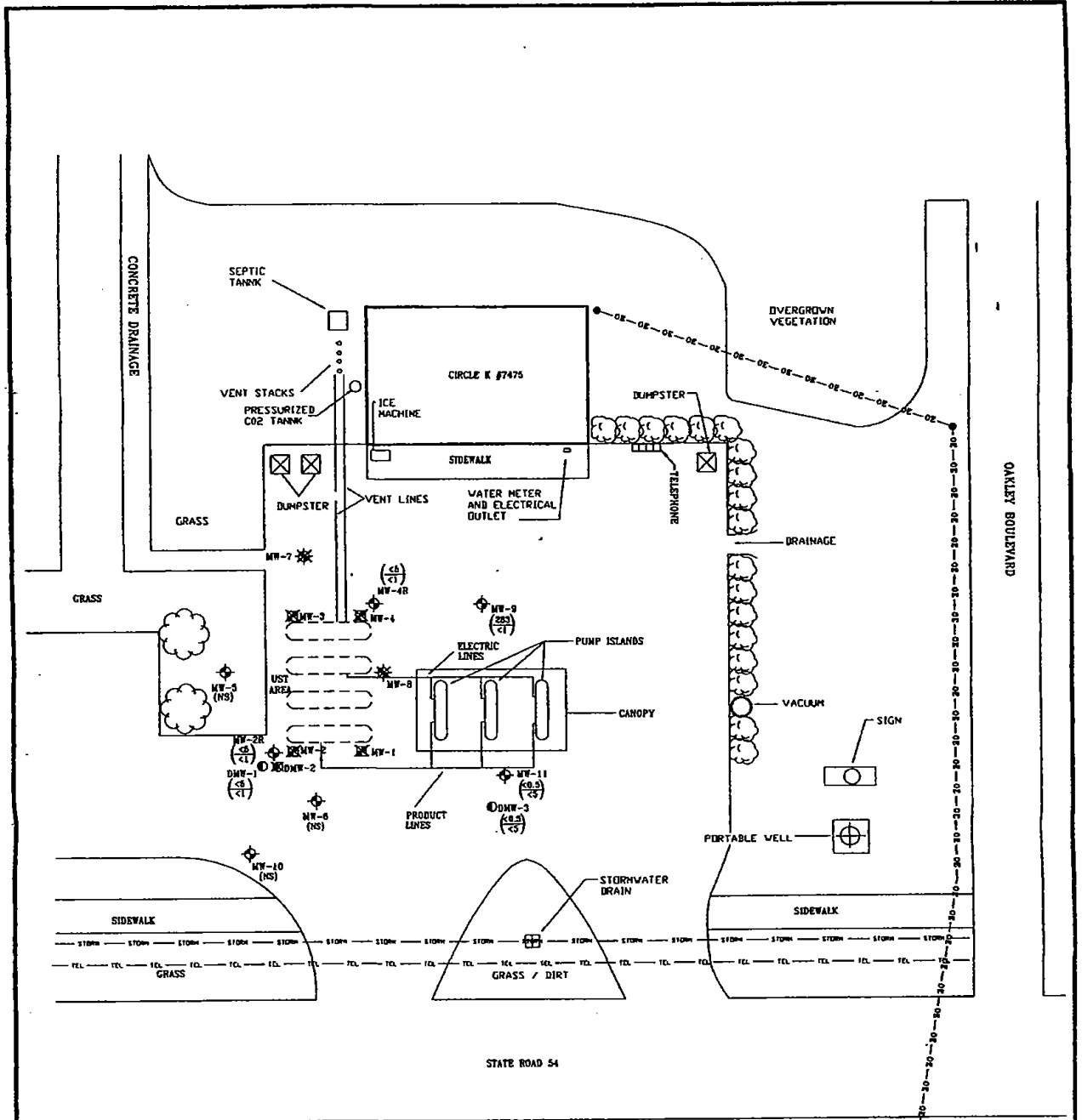
VATC
Associates, Inc.

5801 Benjamin Center Drive
Suite 101
Tampa, Florida 33634
(813) 889-8960
(813) 889-8754 FAX

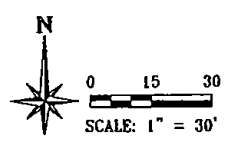
SITE MAP
CIRCLE K STORE #7475
STATE ROAD 54 AND INTERSTATE 75
ZEPHYRHILLS, FLORIDA

PROJECT NO.:	05-16564.0393
SCALE:	1" = 30'
DATE:	4-17-01
FIGURE NO.:	1

DRAWN BY: S.A.M. CHECKED BY: E.F.



UNDEVELOPED LAND



LEGEND	
	MONITORING WELL LOCATION
	COMPLIANCE WELL LOCATION
	DEEP MONITORING WELL
	DESTROYED WELL LOCATION
$\frac{(14)}{(18)}$	MTBE CONCENTRATION IN $\mu\text{g/l}$ NAPHTHALENE CONCENTRATION IN $\mu\text{g/l}$
(NS)	NOT SAMPLED

VATC
Associates, Inc.

5801 Benjamin Center Drive
Suite 101
Tampa, Florida 33634
(813) 889-8960
(813) 889-8754 FAX

DRAWN BY: S.A.M. CHECKED BY: P.W.

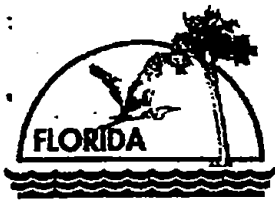
MTBE/NAPHTHALENE CONCENTRATION MAP
 NOVEMBER 26, 2001
 CIRCLE K STORE #7475
 STATE ROAD 54 AND INTERSTATE 75
 ZEPHYRHILLS, FLORIDA

PROJECT NO.:
05-16564.0393

SCALE:
1" = 30'

DATE: 10-09-01

FIGURE NO.: 3



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

February 14, 2002

Ms. Nicole Scroggins
Earth Tech, Inc.
30 South Keller Rd., Suite 500
Orlando, FL 32810-6101

ENTERED

Subject: Deliverable Review, No Further Action Proposal Approval, and Proposal Request
Universal Concrete
1018 Sawdust Trail
Kissimmee, Osceola County, FL
FDEP Facility ID# 499300369
Work Order # 2001-95-0833-0

Dear Ms. Scroggins:

The Bureau of Petroleum Storage Systems has reviewed the Site Assessment Report and No Further Action Proposal (NFAP) dated January 25, 2002 (received January 25, 2002), submitted for the discharge discovered on April 3, 1993, at this site. Documentation submitted with the NFAP confirms that criteria set forth in Rule 62-770.680, Florida Administrative Code (F.A.C.), have been met. As such, the NFAP has been approved. In addition, the deliverable is acceptable and demonstrates that the work outlined in Work Order #2001-95-0833-0 has been satisfactorily performed. You may submit an invoice for the balance of the Work Order including retainage.

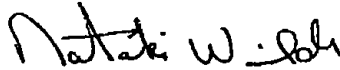
Before the Site Rehabilitation Completion Order (SRCO) for this site can be issued, all on-site monitoring wells (excluding compliance wells) have to be properly abandoned. Therefore, a proposal needs to be submitted to properly abandon all on-site monitoring wells (including the costs associated with removal of the well pads and manhole covers of all monitoring and compliance wells to be abandoned) and to perform any other applicable site restoration activities.

Remember that this site is not yet approved for No Further Action. In order for the Florida Department of Environmental Protection (FDEP) to issue the SRCO, a work order to perform the site closure will need to be completed and a well abandonment report will need to be prepared and submitted. After the FDEP receives and approves the well abandonment report, the SRCO will be issued.

Ms. Nicole Scroggins
FDEP Facility ID# 499300369
February 14, 2002
Page two

Please mail the proposal to me within two weeks of receiving this letter at the letterhead address, Mail Station 4585. If you should have any questions concerning the review of the NFAP or the needed proposal, please contact me at (850) 222-6446 ext. 261 or at the letterhead address, Mail Station 4585.

Sincerely,



Nataki Wilder
WRS Staff Engineer
Petroleum Cleanup Section 5
Bureau of Petroleum Storage Systems
E-mail: nwilder@wrsie.com



Shawn L. Abbott
Environmental Manager
Petroleum Cleanup Section 5
Bureau of Petroleum Storage Systems

Reviewed by:



Richard A. Dunn, P.G. #1509
WRS Senior Geologist
Petroleum Cleanup Section 5
Bureau of Petroleum Storage Systems

Date 2/14/2002

/nw

cc: Winford Harrell, 1018 Sawdust Trail, Kissimmee, FL 34744
Richard A. Dunn, P.G.
File