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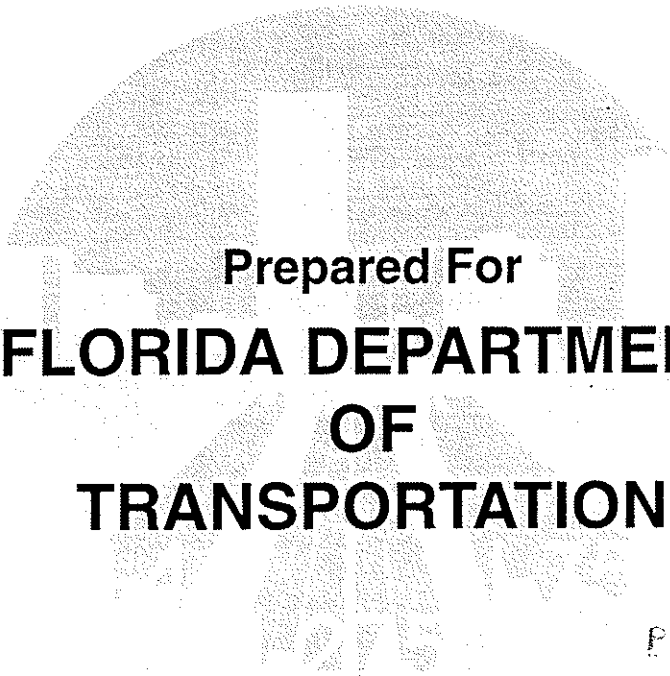
Contamination Screening Evaluation Technical Memorandum

TAMPA INTERSTATE STUDY

(the I-275/I-4 Downtown Interchange Operational Improvement)

WPI No. 7140004, State Project No. 99007-1402, FAP No. IR-9999(43)

Interstate 275 (I-275) from the Hillsborough River to Floribraska Avenue and Interstate 4 (I-4) from the I-275/I-4 merge to east of 22nd Street (Section 10320-MP 0.0 to MP 0.7 and Section 10190-MP 6.389 to MP 8.49) approximately 4.5 kilometers (2.8 miles) in length.



Prepared For
**FLORIDA DEPARTMENT
OF
TRANSPORTATION**

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JANUS RESEARCH**

JULY 1996

CONTAMINATION SCREENING EVALUATION

TECHNICAL MEMORANDUM

I-275/I-4 Downtown Interchange Operational Improvement

WPI No. 7140004, State Project No. 99007-1402, FAP No. IR-9999(43)

Introduction

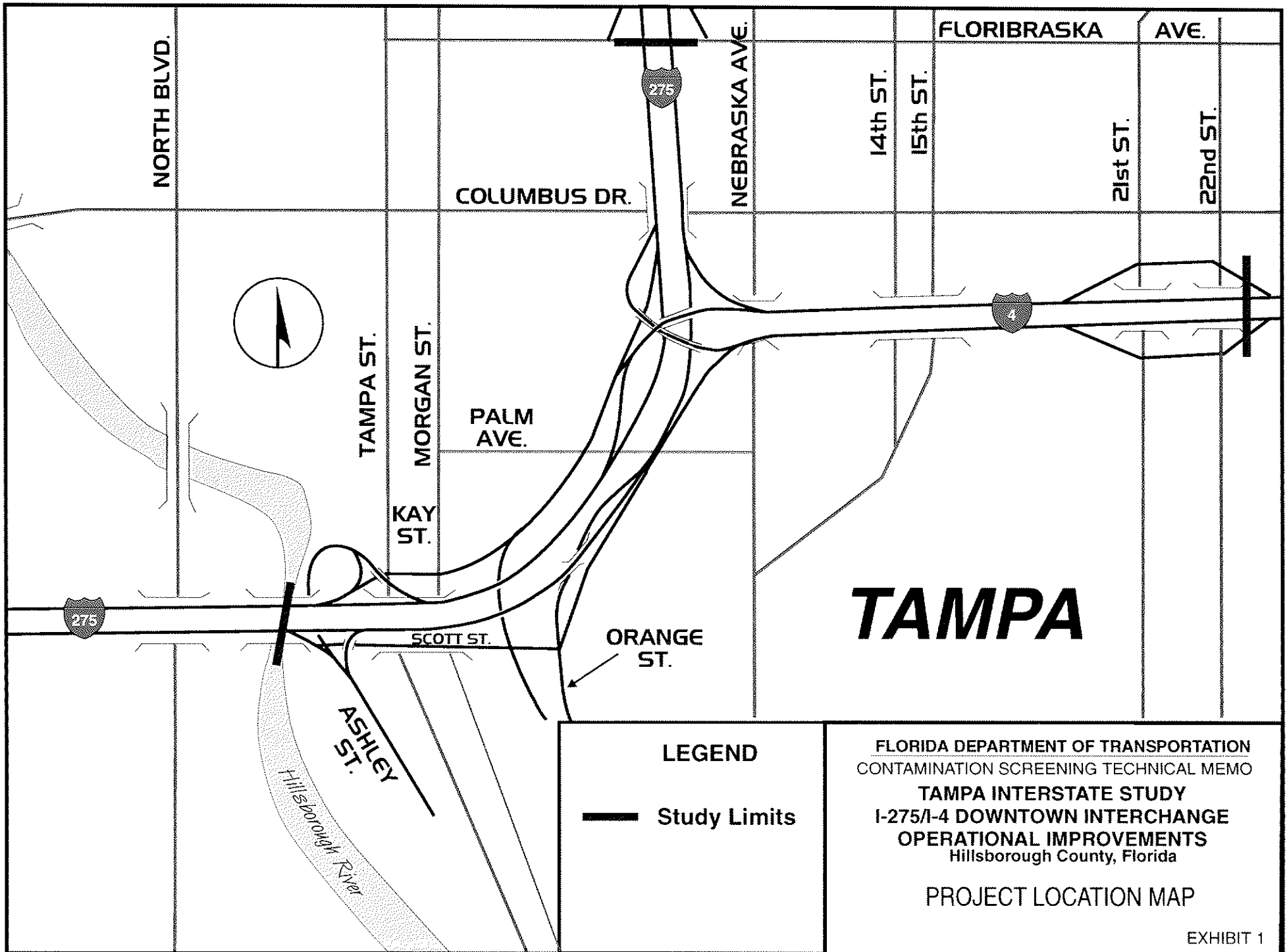
The *Tampa Interstate Study (TIS) Master Plan* (published separately) for the Tampa interstate system was approved by the Federal Highway Administration (FHWA) in November 1989 and adopted by the Hillsborough County Metropolitan Planning Organization (MPO) in August 1990. Because of the level of complexity and the financial considerations involved with construction of the TIS Master Plan Preferred Alternative, a staged construction plan was developed to transition from the existing roadway geometry to the ultimate improvements.

The Interstate 275/Interstate 4 (I-275/I-4) downtown interchange has been identified by the MPO, the FDOT, and the FHWA as a vital link to the other staged improvements within the Master Plan area, currently under design. The I-275/I-4 Downtown Interchange Operational Improvement project is intended to: improve conflicting merge/diverge areas that currently contribute to congestion in the interchange area; increase sight distances to help reduce accidents; provide pull-off areas for disabled vehicles by providing shoulders where economically and physically possible; and identify any additional safety improvements for the interchange.

This Contamination Screening Evaluation Technical Memorandum documents the potential contamination impacts associated with the proposed I-275/I-4 Downtown Interchange Operational Improvement project. Detailed information about the conceptual engineering and environmental impacts of the proposed improvements are contained in the *Engineering Summary* and the *Environmental Analysis*, published separately for the I-275/I-4 Downtown Interchange Operational Improvement project. A project location map is provided on Exhibit 1.

Methodology

A Level I contamination screening evaluation was conducted for the I-275/I-4 Downtown Interchange Operational Improvement project in December 1995. Essentially, this screening evaluation identifies known and potential hazardous material contamination sites along the project corridor; evaluates their risk to impact the proposed project; and provides recommendations for additional investigations, where required. The screening evaluation was conducted according to guidelines established by the Florida Department of Transportation (FDOT), District VII.



NORTH BLVD.

COLUMBUS DR.

NEBRASKA AVE.

FLORIBRASKA AVE.

14th ST.

15th ST.

21st ST.

22nd ST.

TAMPA ST.

MORGAN ST.

PALM AVE.

KAY ST.

SCOTT ST.

ORANGE ST.

ASHLEY ST.

Hillsborough River

TAMPA

LEGEND

— Study Limits

FLORIDA DEPARTMENT OF TRANSPORTATION
 CONTAMINATION SCREENING TECHNICAL MEMO
TAMPA INTERSTATE STUDY
I-275/I-4 DOWNTOWN INTERCHANGE
OPERATIONAL IMPROVEMENTS
 Hillsborough County, Florida

PROJECT LOCATION MAP

This screening evaluation was conducted in order to help identify any known, or potential, hazardous material contamination sites along the project corridor. Because there is no single comprehensive source of information currently available which identifies all known and potential hazardous material contamination sites along the project, the survey consisted of the following tasks:

- Reviewing computer data base files provided by Environmental Data Resources, Inc. These computer data base files include, but are not limited to:

Federal ASTM and Non-ASTM Records

1. CERCLIS - Comprehensive Environmental Resources, Compensation and Liability Information System.
2. ERNS - Emergency Response Notification System
3. NPL - National Priority List
4. RCRIS - Resource Conservation and Recovery Information System
5. FINDS - Facility Index System
6. HMIRS - Hazardous Materials Information Reporting System
7. PADS - PCB Activity Database System

State of Florida ASTM and Non-ASTM Records

1. LUST - PCT01- Petroleum Contamination Detail Report
 2. UST - STI01 - Facility/Owner/Tank Report
 3. SHWS - Florida's State-Funded Action Sites
 4. SWF/LS - Facility Directory (Solid Waste Facilities)
 5. AST - STI02 - Facility/Owner/Tank Report
 6. FL Sites - Sites List
- Consulting representatives of the Hillsborough County Environmental Protection Commission responsible for pollution control and hazardous material regulations in the study area;
 - Reviewing Sanborn Fire Insurance Maps dated 1915, 1931, 1951, 1954 and 1962;
 - Reviewing the available R.L. Polk Co. City Directories for Tampa between the dates 1950 and 1993 to identify past land uses along the project corridor potentially involving hazardous material;
 - Evaluating historical aerial photography of the project corridor taken in 1960, 1966, 1972 and 1987;

- Reviewing previous hazardous material surveys along the TIS project corridor conducted by Greiner in 1988, 1991 and 1993; and
- Conducting in-the-field visual surveys within the study area in order to help verify known hazardous material sites and to identify and investigate any previously unrecorded sites focusing on underground storage tanks and hazardous material use.

Results

As a result of the data collection efforts and field reconnaissance, this survey identified 37 sites along the project corridor containing hazardous materials, hazardous waste, other regulated substances and/or environmental contamination, or which have the potential to contain these materials. A map showing the location of each site is provided on Exhibit 2. Businesses which currently maintain underground storage tanks for petroleum products or sites that previously contained underground storage tanks constitute the majority of these sites. A summary of each site including the name, address, identification number (if any), potential contaminants, risk ranking, and proposed right-of-way involvement is provided on the attached Table.

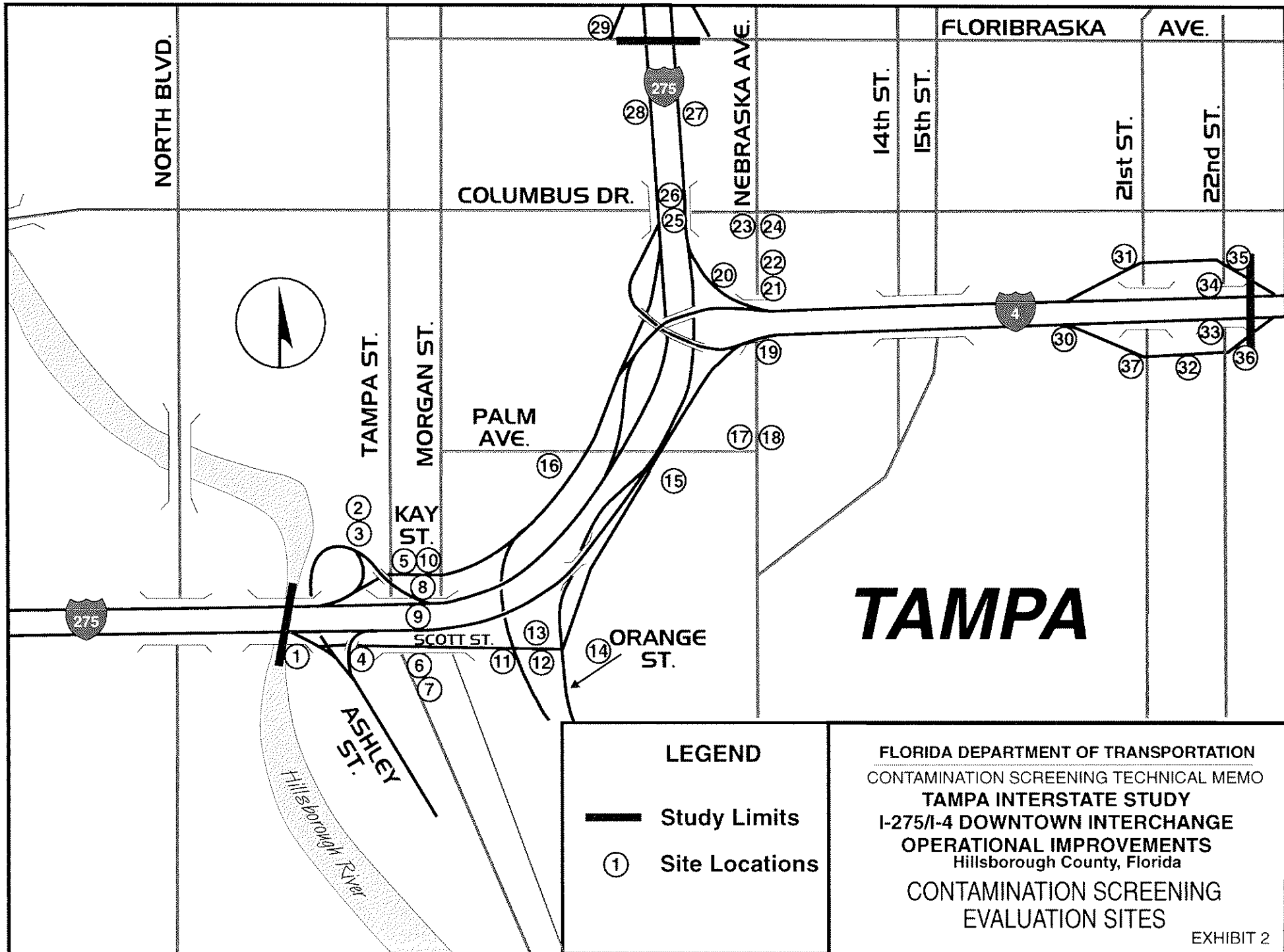
The information obtained about each site was evaluated according to the *Project Development and Environment (PD&E) Contamination Risk Evaluation Guideline*, Revision 2, developed by the FDOT District VII. Utilizing the FDOT risk evaluation rating system, each identified site was assigned a rating of "No," "Low," "Medium," or "High" based upon the information collected during this contamination screening. The risk rating assigned to each site indicates the potential for hazardous material involvement which could impact the proposed I-275/I-4 Downtown Interchange Operational Improvement project.

Recommendation

Level II investigations are recommended at those sites ranked Medium or High where soil and/or groundwater contamination, should it exist, could potentially impact the interchange improvement project. A brief description of those sites ranked Medium or High is provided in the following paragraphs.

Site No.1- River Front Property - 1400 block of Doyle Carlton Drive. This site is located within existing FDOT right-of-way south of I-275. The property was the site of a foundry, as indicated on the 1951 Sanborn Fire Insurance Map. The property would be modified by Alternative 3 for interstate ramping. Subsurface soil and groundwater testing is recommended to determine potential heavy metal and low-end hydrocarbon contamination impacts.

Site No. 4 - City of Tampa Recreation Department Offices - 1420 North Tampa Street. This site is located adjacent to, and south of I-275. According to computer data base files, one 1,000-gallon, non-regulated fuel oil underground storage tank (UST) was closed in place in December 1992.



CONTAMINATION SCREENING - SITE SUMMARY
I-275/I-4 Downtown Interchange Operational Improvement
Contamination Screening Evaluation Technical Memorandum

Site No.	Loc.	Site Name/Description/Address	Facility ID. No.	Comments	Concern	Rank	Direct Involvement
1	S	Former Foundry - Currently River Frontage 1400 Block of Doyle Carlton Drive	None	Recorded on Sanborn Maps - 1951 No Regulatory Information	H/M	Med	Alt. 3
2 (NA-140)	N	Tampa City Police Dept./Fueling 1710 N. Tampa St.	298625142	LUST (tnr), UST EDI - Eligible 9/89 Tanks Removed x/xx	PET	Low	None
3	N	Former Foundry - West side of Tampa Street, North of Kay Street. Currently Tampa Police Dept. Parking Lot	None	Recorded on Sanborn Maps - 1915 No Regulatory Information	H/M	Low	None
4 (NA-172)	N	Tampa City - Recreation Dept. 1420 N. Tampa St.	299400333	UST - Fuel Oil Closed in Place 12/92	PET	Med	Alt. 3
5	N	Former Leather Works (Possible Tannery) East Side of Tampa Street, North of Kay Street	None	Recorded on Sanborn Maps - 1951, 54, 62 No Regulatory Information	H/M	Low	None
6	S	Former Gasoline Station/Currently HRS Office Parking Lot, 1400 Block of Tampa Street	None	Recorded on Sanborn Maps - 1951, 54, 62 No Regulatory Information	PET	High	Alt. 3
7	S	Former Dry Cleaner/Currently HRS Office Parking Lot. 1400 Block of Tampa Street	None	Recorded on Sanborn Maps - 1951, 54, 62 No Regulatory Information	H/M	Med	Alt. 3
8 (NA-NA)	N	Central Animal Hospital 1523 North Franklin Street	None	UST Observed	PET	High	Alts. 1, 2, 3 Preferred
9	N	Former Gasoline Station/Currently Parking Lot. 1500 Block of Franklin Street, (beneath existing I-275)	None	Recorded on Sanborn Maps - 1931 No Regulatory Information	PET	High	Alt. 1,2,3, Preferred
10 (12-NA)	N	Tampa Electric Substation 1600 Block of Florida Avenue	Not Found	PCB's	H/M	Med	Alt. 3
11 (NA-174)	S	Hillsborough County - Morgan St. Jail 1301 N. Morgan St.	299102571	UST, AST's Observed	PET-H/M	Low	None
12 (13-185)	S	Ray's Bail Bonds/Former Gas Station a.k.a. Bazarte/Rene 801 E. Scott St.	298732385	LUST (tnr), UST EDI - Eligible 3/93 CAR RAP - (MOP) Tanks Removed x/xx	PET	Low	None
13	S	Former Gasoline Station/Currently FDOT Right-of-Way. Area North of Scott Street between Orange and Jefferson Streets.	None	Recorded on Sanborn Maps - 1931 No Regulatory Information	PET	High	Alt. 1,2 Preferred
14	E	Former Dry Cleaner/Currently Central Park Village. Former intersection of Scott Street and Lamar Avenue	None	Recorded on Sanborn Maps - 1951 No Regulatory Information	H/M	Low	None
15	E	Former Gasoline Station/Currently vacant property. Southeast corner of Henderson Street and Governor Street	None	Recorded on Sanborn Maps - 1951, 54, 62 No Regulatory Information	PET	Low	None

CONTAMINATION SCREENING - SITE SUMMARY (Continued)
I-275/I-4 Downtown Interchange Operational Improvement
Contamination Screening Evaluation Technical Memorandum

Site No.	Loc.	Site Name/Description/Address	Facility ID. No.	Comments	Concern	Rank	Direct Involvement
16 (NA-NA)	W	Silver Dollar Tavern/Former Gas Station 411 E. Palm Ave.	Pending	UST Parts Observed Disposition Unknown Recorded on Sanborn Maps - 1951, 54, 62	PET	Med	None
17 (NA-99)	E	Torres Transmissions/Auto Repair a.k.a. Giglio Property/Former Gas Station 2002 N. Nebraska Ave.	299102252	LUST (tnr), UST ATRP - Ineligible 3/93 (no contamination) Tanks Removed 3/91	PET-H/M	Low	None
18	E	Former Gasoline Station/Currently large vacant building. Northeast corner of Nebraska and Palm Avenues	None	Recorded on Sanborn Maps - 1951, 54, 62 No Regulatory Information	PET	Low	None
19	S	Former Gasoline Station/Currently FDOT Right-of-Way. Northeast corner of Nebraska and 12th Avenues (beneath existing I-4 Ramps)	None	Recorded on Sanborn Maps - 1951 No Regulatory Information	PET	High	Alt. 1, 2, 3, Preferred
20 (NA-63)	E	Hillsborough Co. School Board/School 707 E. Columbus Ave.	298736992	UST, Unmaintained AST, Active	PET	Med	Alt. 1, 3 Preferred
21 (19-NA)	E	Eastside Funeral Home/Former Auto Service Business 2301 N. Nebraska Ave.	None	No Regulatory Information	PET-H/M	Med	Alt. 3
22 (18-78)	E	Vacant Building/Former Gas Station a.k.a C Mart #643 2309 N. Nebraska Ave.	298508941	UST, Tanks Removed 12/90	PET-H/M	Med	None
23 (17-76)	E	Amigos Auto Service/Auto Repair a.k.a. Genes Ser./Former Gas Station 2318 N. Nebraska Ave.	298625737	UST, Closed in Place 10/88	PET	Med	None
24 (NA-78)	E	Goldstar Foods/Gas Station 2317 N. Nebraska Ave.	298944840	UST, Active Retail Station	PET	Low	None
25	E	Former Dry Cleaner/Currently FDOT Right-of-Way. Southwest corner of Taliaferro Avenue and Columbus Drive (beneath existing I-275).	None	Recorded on Sanborn Maps - 1951, 54, 62 No Regulatory Information	H/M	High	Alts. 1,2,3 Preferred
26	W	Former Gasoline Station/Currently FDOT Right-of-Way. Northeast corner of Elmore Street and Columbus Drive (beneath existing I-275).	None	Recorded on Sanborn Maps - 1962 No Regulatory Information	PET	High	Alts. 1,2,3 Preferred
27 (20-54)	E	Tampa City Fire Dept. Communication/Alarm Signal Bldg. And Fueling 2904 N. Mitchell Ave.	298842212	LUST (Gas and Diesel) UST AST, EDI - Eligible 10/89. Tanks Removed 10/90 - 3/91. One active AST remains.	PET	High	Alt. 3
28	W	ERNS Incident Site 2818 N. Elmore St.	None	Emergency Response Notification System - Recorded Site #8801808	Unknown	Low	Alt. 3
29 (21-NA)	W	Spring Property/Former Gas Station 520 E. Floribraska Ave.	299101452	LUST (Waste Oil), UST, Unmaintained. ATRP - Ineligible 3/94	PET	Med	None

CONTAMINATION SCREENING - SITE SUMMARY (Continued)
I-275/I-4 Downtown Interchange Operational Improvement
Contamination Screening Evaluation Technical Memorandum

Site No.	Loc.	Site Name/Description/Address	Facility ID. No.	Comments	Concern	Rank	Direct Involvement
30 (NA-89)	S	U-Haul/Truck & Trailer Rental 2309 N. 18th St.	298625612	UST	PET	Low	None
31 (25-83)	N	BP - Ybor/Gas Station a.k.a. Royal Station 2040 E. 14th Ave.	298627858	LUST (gas), UST, EDI - Eligible 3/90	PET	Med	None
32 (26-84)	S	Hardees/Fast Food/Former Gas Station a.k.a. NCJ Investments 2101 E. 13th Ave.	298624753	LUST (tnr), UST, EDI - Eligible 1/92	PET	Med	None
33	S	Former Gasoline Station/Currently FDOT Right-of-Way. Northeast corner of 22nd Street and 13th Avenue (beneath I-4).	None	Recorded on Sanborn Maps - 1962 No Regulatory Information	PET	High	Alts. 1, 2, 3 Preferred
34	N	Former Gasoline Station/Currently FDOT Right-of-Way. Southwest corner of 22nd Street and 14th Avenue (beneath existing I-4).	None	Recorded on Sanborn Maps - 1951, 54, 62 No Regulatory Information	PET	High	Alts 1,2,3 Preferred
35 (27-80)	N	Fina A - One/Gas Station a.k.a. Gas Kwick 2501 N. 22nd St.	298625735	LUST (tnr), UST, EDI - Eligible 8/91	PET	Med	None
36 (28-85)	S	Amoco - Alan Dale/Gas Station a.k.a Shell - Alan Dale 2207 13th Ave.	298625038	LUST (tnr), UST, PLRP - Eligible 2/91, RAP (MOP)	PET	Med	None
37	S	Burger King/Former Texaco Gas Station 2302 N. 21st St.	None	Recorded in City Directories No Regulatory Information	PET	Med	None

AST - Aboveground Storage Tank
 ATRP - Abandoned Tank Restoration Program
 CAR - Contamination Assessment Report
 EDI - Early Detection Incentive Program
 FAC. ID. No. - FDEP Facility Identification Number
 H/M - Hazardous Materials
 LUST - Leaking Underground Storage Tank
 MOP - Monitoring Only Plan
 PCB - Polychlorinated Biphenyls
 PET - Petroleum
 PLRP - Petroleum Liability & Restoration Program
 RAP - Remedial Action Plan
 tnr - Type of Contamination Not Recorded
 UST - Underground Storage Tank
 X/XX - Date Unknown

Alternative 3 would require complete acquisition of the site for interstate ramping. Pending a review of Environmental Protection Commission (EPC) files, subsurface soil and groundwater testing may be recommended.

Site No. 6 - Department of Health and Rehabilitative Services (HRS) Parking Lot - 1400 block of North Tampa Street. This site is located adjacent to, and south of I-275. As indicated on Sanborn Maps dated 1951, 1954, and 1962, the northwest portion of this parking lot was formerly a gasoline station. Alternative 3 would require complete acquisition of the former station site. Subsurface soil and groundwater testing is recommended to determine potential hydrocarbon impacts.

Site No. 7 - HRS Parking Lot - 1400 block of North Tampa Street. This site is located approximately 250 feet south of I-275. As indicated on Sanborn Maps dated 1951, 1954, and 1962, the southwest portion of this parking lot was formerly a dry cleaning business. Right-of-way acquisition associated with Alternative 3 would involve land directly adjacent to this site. Groundwater testing for the presence of dry cleaning solvents is recommended on the land to be acquired.

Site No. 8 - Central Animal Hospital - 1523 North Franklin Street. This site is located adjacent to, and north of I-275. A fill port and vent pipe were observed during a field review in December 1995. Reportedly, the associated UST of unknown capacity is active and contains fuel oil. The UST is located within the proposed right-of-way of Alternatives 1,2,3 and Preferred. Subsurface soil and groundwater tests are recommended to determine if the site has been contaminated by the UST.

Site No. 9 - City Parking Lot - 1500 block of North Franklin Street. This site is located beneath I-275 on the east side of Franklin Street. The site is a former gasoline station, as indicated on the 1931 Sanborn Map. Three gasoline tanks were located beneath or immediately south of the interstate. This property will be modified by Alternatives 1,2,3 and Preferred. Subsurface soil and groundwater testing is recommended to determine potential hydrocarbon impacts.

Site No. 10 - Tampa Electric Substation - 1600 block of Florida Avenue. The substation is located between Florida Avenue and Marion Street, north of Kay Street. A portion of the property along Kay Street would be acquired by Alternative 3. Soil testing is recommended to determine potential PCB impacts.

Site No. 13 - I-275 On-Ramps - 1500 block of Orange Street. This site is located within existing FDOT right-of-way, south of the junction of the Scott and Orange Street ramps. This area is a former auto repair facility with one gasoline tank, as indicated on a 1931 Sanborn Map. This site would be modified by Alternatives 1,2,3 and Preferred. Subsurface soil and groundwater testing is recommended to determine potential hydrocarbon impacts.

Site No. 16 - Silver Dollar Tavern - 411 East Palm Avenue. This site is a former gasoline station, as indicated on the 1951, 1954, and 1962 Sanborn Maps. UST fill ports were observed during a field review in December 1995. Adjacent parcels to the south and east of the site would be acquired by Alternative 3. Subsurface soil and groundwater testing is recommended to determine potential hydrocarbon impacts at the parcels to be acquired.

Site No. 19 - I-4 Right-of-Way - 2200 block of Nebraska Avenue. This site is located on the northeast corner of Nebraska and 12th Avenues and is existing I-4 right-of-way. This area is a former gasoline station, as indicated on the 1951 Sanborn Map. The station gas tanks were located beneath the existing southern I-4 overpass of Nebraska Avenue. Alternatives 1,2,3 and Preferred will modify the right-of-way at this location. Subsurface soil and groundwater testing is recommended to determine the potential presence of hydrocarbons.

Site No. 20 - Hillsborough County School Board Velasco Building - 707 East Columbus Drive. Formerly George Washington Junior High School, the site is located on the south side of Columbus

Drive adjacent to, and east of the I-275/I-4 interchange. The site has one 2,000-gallon fuel oil UST which has not been maintained since 1991, and one 1,000-gallon active fuel oil above-ground storage tank (AST). Alternative 3 would require complete acquisition of the site, while Alternatives 1 and Preferred would involve only minor property acquisition. Subsurface soil and groundwater testing is recommended, particularly for Alternative 3, to determine potential hydrocarbon impacts.

Site No. 21 - Eastside Funeral Home - 2301 North Nebraska Avenue. This site is located on the northeast corner of Nebraska and 14th Avenues. During an April 1991 field review, the site contained an auto service business. Alternative 3 will require complete acquisition of the site. Soil testing is recommended to determine the potential presence of low-end hydrocarbons.

Site No. 22 - Former C-Mart Service Station - 2309 North Nebraska Avenue. This site is located at the southeast corner of Nebraska and 15th Avenues, adjacent to parcels which would be acquired by Alternative 3. This site is a former gasoline station, as indicated on the 1962 Sanborn Map. Computer data base files indicate that five USTs were removed from the site in December 1990. Subsurface soil and groundwater testing is recommended to determine the potential presence of hydrocarbons at the adjacent parcels to be acquired.

Site No. 23 - Amigo's Auto Service - 2318 North Nebraska Avenue. The site is formerly known as Gene's 66 Service. This site is located on the southwest corner of Nebraska Avenue and Columbus Drive, adjacent to parcels which would be acquired by Alternative 3. The site is a former gasoline station, as indicated on the 1951, 1954, and 1962 Sanborn Maps. Computer data base files indicate that three 1,000-gallon USTs, installed in 1963, were removed from the site in October 1988. Subsurface soil and groundwater testing is recommended for the adjoining property to be acquired to determine the potential presence of hydrocarbon contamination.

Site No. 25 - I-275 Right-of-Way - 600 block of Columbus Drive. Located beneath the existing I-275 northbound lanes on the south side of Columbus Drive, the property is the site of a former dry cleaning business, as indicated on the 1951, 1954, and 1962 Sanborn Maps. The existing right-of-way at this site would be modified by Alternatives 1,2,3 and Preferred. It is recommended that soils and groundwater in the vicinity of this site be tested for the potential presence of dry cleaning solvents.

Site No. 26 - I-275 Right-of-Way - 600 block of Columbus Drive. This site is located beneath the I-275 southbound lane at the northeast corner of Columbus Drive and Elmore Street. The property is the site of a former gasoline station, as indicated on the 1962 Sanborn Map. The existing right-of-way at this site would be modified by Alternatives 1,2,3 and Preferred. Subsurface soil and groundwater testing is recommended to determine the potential presence of hydrocarbons.

Site No. 27 - Tampa Fire Department Alarm Signal Building - 2904 North Mitchell Avenue. The site is located between St. Clair and Robles Street, adjacent to I-275. The site is a former fueling facility for the Fire Department. Four USTs and two ASTs were removed from the facility between October 1990 and March 1991. Soils contaminated with gasoline and diesel fuel were noted during the tank removals. The site was determined to be eligible for the Early Detection Incentive (EDI) programs in October 1989. Computer data base files indicate that a contamination assessment has not been conducted at the site. The western half of the facility would be acquired by Alternative 3.

Site No. 29 - Spring Property - 520 East Floribraska Avenue. This site is a former gasoline station located on the northwest corner of Floribraska Avenue and Elmore Street. According to computer data base files, the USTs are not maintained. This site was determined to be ineligible for the Abandoned Tanks Reimbursement Program (ATRP) because of waste oil contamination. Alternative 3 will involve the modification of right-of-way adjacent to this site. Pending a review of EPC files, soil and groundwater testing is recommended to determine the potential for hydrocarbon contamination adjacent to this site.

Site No. 31 - BP Ybor - 2040 East 14th Street. This site is located on the northwest corner of 14th Avenue and 21st Street, on the north side of I-4. Computer data base files indicate that the facility contains four 8,000-gallon USTs and has reported groundwater contamination. The site was determined to be eligible for EDI funds in March 1990. A contamination assessment has not been completed for the site. No right-of-way acquisition is proposed at this location. The potential exists for hydrocarbon contamination from this site to impact existing I-4 right-of-way.

Site No. 32 - Hardees Restaurant - 2101 East 13th Avenue. This site is located between 21st and 22nd Streets, on the south side of I-4. Computer data base files indicate that the former Exxon gasoline station (a.k.a. NCJ Investments) had five USTs removed in June 1989. The site was determined to be eligible for EDI funds in January 1992. An Initial Remedial Action (IRA) has been conducted, but groundwater contamination has not been addressed. No right-of-way acquisition is proposed for this site. The potential exists for hydrocarbon contamination from this site to impact existing I-4 right-of-way.

Site No. 33 - I-4 Right-of-Way - 2100 block of 13th Avenue. This site is located within existing I-4 right-of-way on the northwest corner of 13th Avenue and 22nd Street. The property is the former site of a gasoline station, as indicated on the 1962 Sanborn Map. Soils and groundwater within the existing right-of-way may be impacted by hydrocarbon contamination at this location.

Site No. 34 - I-4 Right-of-Way - 2100 block of 14th Avenue. This site is located within existing I-4 right-of-way on the southwest corner of 14th Avenue and 22nd Street. The property is the former site of a gasoline station site, as indicated on the 1951, 1954, and 1962 Sanborn Map. Soils and groundwater within the existing right-of-way may be impacted by hydrocarbon contamination at this location.

Site No. 35 - Fina A-One - 2501 North 22nd Street. This site is located on the northeast corner of 22nd Street and 14th Avenue, on the north side of I-4. Computer data base files indicate that this facility contains four 6,000-gallon USTs (three gasoline, one diesel) and two 550-gallon USTs (new and used oil). The site was determined eligible for EDI funds in September 1991. Reportedly, the site contains soil and groundwater contamination. A contamination assessment has not been completed. No right-of-way acquisition is proposed for this site. The potential exists for hydrocarbon contamination from this site to impact I-4 right-of-way.

Site No. 36 - Amoco (Alan Dale) - 2207 13th Avenue. This site is located on the southeast corner of 13th Avenue and 22nd Street, on the south side of I-4. Computer data base files indicate that the site had three 9,000-gallon USTs replaced by three 10,000-gallon USTs in October 1990. This site was determined to be eligible for the Petroleum Liability and Restoration Program in February 1991.

Site No. 37 - Burger King - 2302 North 21st Street. A former Texaco gasoline station, this site is located on the southwest corner of 21st Street and 13th Avenue. The station is indicated on 1972 aerial photographs of the area and was verified through the use of City Directories to be in operation from 1970 until 1980. No right-of-way acquisition is proposed for this site. The potential exists for hydrocarbon contamination from this site to impact existing I-4 right-of-way.

At a minimum, Level II investigations should be conducted at those sites with direct project involvement. Direct project involvement means that all, or a portion of the site is located within existing right-of-way or will be acquired for project right-of-way. Alternative 1 results in direct project involvement at Site Numbers 8, 9, 13, 19, 20, 25, 26, 33, and 34; Alternative 2 at Site Numbers 8, 9, 13, 19, 25, 26, 33 and 34; and Alternative 3 at Site Numbers 1, 4, 6, 7, 8, 9, 10, 19, 20, 21, 25, 26, 27, 28, 33, and 34. The Preferred Alternative results

in direct project involvement at Sites 8, 9, 13, 19, 20, 25, 26, 33, and 34. Level II investigations should include, but not be limited to, (1) an updated review of Florida Department of Environmental Protection (FDEP) and Hillsborough County Environmental Protection Commission (EPC) files, and (2) the select sampling and analysis of each site's soil and groundwater to help determine the absence or presence of environmental contamination.

The findings of this contamination screening evaluation are based upon preliminary information only and are not intended to replace more detailed studies such as individual Environmental Site Assessments and subsurface soil/groundwater investigations. Rather, this survey is intended as a preliminary guide for identifying potential contamination in the proposed I-275/I-4 Downtown Interchange Operational Improvement project area. Other technical studies may be required to determine the existence of site contamination prior to right-of-way acquisition, utility relocation, or stormwater pond construction. It should be noted that potential contamination sites may extend beyond those identified in this preliminary survey because of limited historical and regulatory information, illegal dumping practices, and the lack of compliance with the FDEP stationary tank registration and hazardous waste generator programs. Finally, the identification of a site in this technical memorandum does not necessarily indicate that the site contains environmental contamination, but only that there is the potential for environmental contamination to occur.