

assessment and/or remediation. Table 9 is a listing of the one and only site in the project area.

**TABLE 9  
GROUND WATER ASSESSMENT/REMEDICATION SITE LIST**

Site	Location	Status
CSX Transportation	Almonaster Ave	Assessment

The CSX Transportation - Gentilly Yard file has a Facility Inspection Form dated December 17, 1991. The site visit was conducted to inspect the monitor well system for diesel contamination at the facility. Another Facility Inspection Report Form dated March 17, 1992 indicated twenty-two monitoring wells including 3 new assessment wells and 1 product recovery well.

A Contamination Assessment Report was completed by GWL, Inc. Environmental Consultants dated April 1992. The report indicates that the direction of ground water flow is towards the Intracoastal Waterway which is located approximately one-half mile south of the site. The direction of groundwater flow in the first water bearing zone is similar to that observed in the perched water table. The results from this Contamination Assessment Report Addendum indicate that the first water bearing zone has not been impacted by diesel related contaminants within the perched water table or on the surface. In addition, the results from this investigation show that the perched water table and first water bearing unit are not contaminated with lead. CSX will proceed with recovery of product from the perched water table and will conduct a one year quarterly monitoring program.

The Site Remedial Action Plan was submitted in February 1993 by EMCON Southeast. Analytical results of soil samples collected on March 19, 1992 indicated an average TPH concentration of 5,085 ppm. Free product was found during the installation of a well, the depth of product was 1.6 feet. The area of ground water contamination encompasses the fueling area and extends approximately 250 feet south of this area. The report indicated two plumes of total naphthalenes and PAH, both are indicated as migrating slowly southward.

This site is located at the CSX Transportation site on Almonaster Avenue, east of the IHNC and north of the Mississippi River Gulf Outlet.

**C.5.1.2.5. OFFICE OF AIR QUALITY AND RADIATION PROTECTION.**

**C.5.1.2.5.1. OFFICE OF AIR QUALITY AND RADIATION PROTECTION, AIR QUALITY COMPLIANCE DIVISION, ENFORCEMENT SECTION.** LDEQ Air Quality Compliance Division keeps a listing of all permitted emission sites in the State of

Louisiana and also all emission violations for the state. Included is the type and amount of material which the site is permitted to emit such as: particulates, carbon monoxide, nitrogen oxides, volatile organics, sulfur dioxide, asbestos, and benzene. Possible types of violation are indicated below.

Formal Inquiry: LDEQ suspects that the facility has a violation. Company officials are invited to discuss the circumstances with LDEQ.

Notice of Violation: LDEQ has confirmed that the facility has a violation. Company officials are invited to discuss circumstances and corrective measures with LDEQ.

Compliance Order: LDEQ indicates a corrective plan for the violation. Plan may be generated by the facility and approved by LDEQ or generated by LDEQ.

Penalty Notice: LDEQ issues notice of fine for non-compliance.

Table 10 is a list of all facilities in the project vicinity of Orleans and St. Bernard Parishes which are permitted to release toxins. The sites in Table 10 do not have violations against them, but are licensed to emit the listed load.

**TABLE 10  
COMPLIANCE DATA SYSTEM PERMITTED SITES**

Source Name	Street Address	City	Pllt <sup>1</sup>	Load <sup>2</sup>	Status
B Ens-Illinois Inc	Jourdan Rd	New Orleans	PT	00074	Perm Closed
			S2	00093	
			VO	00002	
			N2	00689	
Baroid Drill Fluids	Industrial Canal	New Orleans	VO	00001	Operating
BFI-Crescent Acres	6499 Florida Ave	New Orleans	AB	02500	Operating
Browning-Ferris Inc	6599 Florida Ave	New Orleans	PT	00001	Operating
			S2	00002	
			VO	00001	
			CO	00083	
			N2	00017	
			OT	00001	
Citadel Cement Co	2315 France Rd	New Orleans	PT	00059	Operating
			S2	01917	
			N2		
Dravo Basic Material	6401 France Rd	New Orleans	PT	00202	Perm Closed
El Dorado Coffee	2520 Decatur	New Orleans	PT		Operating
El Dorado Coffee LTD	2520 Decatur St	New Orleans	N2	00001	Operating
			PT	00001	
			S2	00001	
			VO	00001	
			CO	00001	
Equitable/Halter	4325 France Rd	New Orleans	VO		Operating
Flintkote Co	N Galvez St	New Orleans	AB		Perm Closed
Flintkote Co-Asphalt	4500 N Galvez St	New Orleans			Perm Closed

TABLE 10 continued

Source Name	Street Address	City	Pllt <sup>1</sup>	Load <sup>2</sup>	Status
Flintkote Company	4500 N Galvez St	New Orleans	PT	00000	Perm Closed
			CO	00000	
			N2	00003	
Harvey Press Inc	NE 3632 Desire Pkwy	New Orleans	PT	00001	Operating
			S2	00001	
			VO	00021	
			CO	00001	
			N2	00001	
Holnam Inc	5301 France Rd	New Orleans	PT	00007	Operating
			VO	00001	
International Paint	3915 Louisa St	New Orleans	VO	00001	Temp Closed
			N2		
Intl Minerals Chem	On Elaine St	New Orleans	VO		Perm Closed
			PT	00003	
LA Industries	Off Hwy 10	New Orleans	PT	00003	Perm Closed
Luzianne Coffee Co	5601 Chef Menteur Hw	New Orleans	PT	00126	Operating
			S2	00007	
			CO	00005	
			N2	00029	
			VO	00005	
Mascobar	6101 France Rd	New Orleans	PT	00008	Operating
			VO	00052	
			N2	00001	
Masonite	4440 N Galvez St	New Orleans	PT	0	Perm Closed
			CO	0	
			N2	0	
			VO		
Masonite Corp	N Galvez St	New Orleans	AB		Perm Closed
Masonite Corporation	4400 N Galvez St	New Orleans			Perm Closed
Milpark Drilling Fld	5100 Jourdan Rd	New Orleans	PT	00028	Operating
			PT		
Minor Source Actions	Parish Wide	Parish Wide	PT		Operating
			S2		
			CO		
			N2		
			VO		
NO Lakefront Airpt FFM	Pontchartrain Lkfrt	New Orleans	VO	00037	Operating
			PT	00229	
NO Sewerage & Water	6501 Florida Ave	New Orleans	PT	00229	Operating
			S2	00013	
			VO	00025	
			CO	00392	
			N2	01937	
Nestle Beverage Co	5500 Chef Menteur	New Orleans	PT	00019	Operating
			S2	00001	
			CO	00001	
			N2	00007	
			VO	00001	
NO Lakefnt Arpt Fuel	Lakfnt Arpt, Adm Bld	New Orleans	VO	00037	Operating
			PT	00001	
Olinkraft-Container	3113 Chartres Street	New Orleans	PT	00001	Operating
			VO	00001	

**TABLE 10** continued

Source Name	Street Address	City	Pllt <sup>1</sup>	Load <sup>2</sup>	Status
Pontchartrain Matl Corp	3819 France Rd	New Orleans	PT		Operating
Quality Recond Serv	3947 Louisa St	New Orleans	AB		Perm Closed
Southern Scrap Inc	4801 Florida Ave	New Orleans	PT	00009	Operating
			S2	00009	
			VO	00005	
			CO	00010	
			N2	00023	
Standard Brands, Inc	5500 Chef Menteur Hy	New Orleans	PT	00002	Operating
			VO	00070	
Tidewater Materials	No 2 Elaine St	New Orleans	PT	00001	Operating
			S2	00001	
			VO	00001	
			CO	00001	
			N2	00001	
Trinity Marine Group	4325 France Rd	New Orleans	PT	00000	Operating
			S2	00000	
			VO	00000	
			CO	00000	
			N2	00000	
Turner Marine Inc	No 1 Elaine St	New Orleans	PT	01308	Operating
US Gypsum Company	5701 Lewis Rd	New Orleans	PT	00135	Operating
			S2	00139	
			CO	00004	
			N2	00098	
			VO	02378	
US MTMC Gulf Outport	4400 Dauphine St	New Orleans			Operating
Blue Circle Cement	N Peters St	Arabi	PT	00001	Operating
Bulk Material Transf	N Bank Miss River	Arabi	PT	00152	Operating
			S2	00001	
			VO	00001	
			CO	00001	
			N2	00003	
Domino Sugar	7417 N Peters St	Arabi	PT	00230	Operating
			S2	00960	
			VO	00003	
			CO	00044	
			N2	00480	
			OT	00010	

Pollutant

POLLUTANT TYPES:

- AB - Asbestos
- BZ - Benzene
- PT - Particulates
- CO - Carbon Monoxide
- N2 - Nitrogen Oxides
- VO - Volatile Organics
- S2 - SO<sub>2</sub>

OT - Other

<sup>2</sup> Permitted Load, in tons/year

Table 11 is a list of all Air Quality enforcement actions in the vicinity of the project of Orleans and St. Bernard Parishes since 1989.

**TABLE 11  
COMPLIANCE DATA SYSTEM ENFORCEMENT ACTIONS**

Source Name	Street Address	City	Action	Date	Status
Minor Source Actions	Parish Wide	Parish Wide	Notice of Viola	03/28/89	Operating
			Notice of Viola	12/17/90	
			Notice of Viola	12/18/91	
			Notice of Viola	10/09/92	
			St Non-Com Plty	01/30/89	
NO Sewerage & Water	6501 Florida Ave	New Orleans	Notice of Viola	02/07/92	Operating
NOPS-Patterson Stat	5400 Dwyer St	New Orleans	Formal Inquiry	09/20/90	Temp Closed
Norfolk Southern Cor	2952 N Dorgenois	New Orleans	Notice of Viola	09/25/91	Renovation
			Notice of Viola	09/25/91	
			St Non-Com Plty	01/31/92	
Orleans Parish Sch	4300 Almonaster	New Orleans	Notice of Viola	01/22/93	Renovation
			Notice of Viola	01/22/93	
Southern Scrap Inc	4801 Florida Ave	New Orleans	Formal Inquiry	08/05/91	Operating
Trinity Marine Group	4325 France Rd	New Orleans	Formal Inquiry	10/29/90	Operating
US Gypsum Company	5701 Lewis Rd	New Orleans	Formal Inquiry	07/07/89	Operating
			Formal Inquiry	07/07/89	
Bulk Material Transf	N Bank Miss River	Arabi	Notice of Viola	05/21/91	Operating
Domino Sugar	7417 N Peters St	Arabi	Formal Inquiry	09/27/90	Operating

**C.5.1.2.5.2. OFFICE OF AIR QUALITY AND RADIATION PROTECTION, AIR QUALITY REGULATORY DIVISION, PERMITS SECTION.** This office maintains the Toxic Emissions Data Inventory (TEDI) database. This is a listing of the actual releases of approximately 100 toxic compounds by emission point. LDEQ personnel pointed out that sites are listed on the TEDI if their emissions are more that 10 tons per year of one compound or more that 25 tons per year for a combination of compounds.

Table 12 is a listing of the actual releases of air toxins by facility in zip codes 70117, 70126, and 70032. Only one site in these zip codes was included on the TEDI database. The SIC code for this facility is 3731, ship building and repairing. This facility emits 211,397 pounds per year in total toxins.

**TABLE 12  
TOXIC EMISSIONS DATA INVENTORY**

Company	Address	Chemical	Emission Rate (lbs/yr)
Equitable/Halter	4325 France Rd New Orleans, LA 70126	1,1,1-Trichloroethane	1201
		Benzene	2516
		Carbon Tetrachloride	2
		Chromium	173
		Copper	366
		Cumene	4
		Ethyl Benzene	10272
		Methyl Ethyl Ketone	33525
		Nickel	99
		N-Butyl Alcohol	3220
		Toluene	20998
		Xylene	115885
Zinc	23100		

**C.5.1.2.5.3. OFFICE OF AIR QUALITY AND RADIATION PROTECTION, RADIATION PROTECTION DIVISION, INSPECTION AND ENFORCEMENT.** The following is data from LDEQ Radiation Protection Division, Naturally Occurring Radioactive Materials (NORM) database. NORM is generally associated with the oil and gas industry where contamination is produced primarily in the "produce water" disposal pits and in the sludge build up in pipes. Substances from deep within the earth naturally contain low levels of natural radiation. Though recently abandoned, the technology of disposing produce waters into large pits which were used for periods of as long as 30 years caused sludges to become concentrated as water evaporated or otherwise left the pit. Often, pits are closed by merely filling and capping. Thus, construction through a closed pit is possible and highly dangerous. These sludges are now very concentrated and often contain highly toxic levels of radiation. Likewise, the sludges which build up on the inside of transport pipes also contain high levels of radiation. When the pipes are reamed out for maintenance, the dust generated are a source of air contamination, and the disposed sludges are a potential soil and groundwater contamination threat. The readings shown are for gamma radiation, which is generally not of concern, but is easy to detect. Alpha radiation is directly proportional to gamma radiation and is of concern, but is difficult to detect. Thus, high gamma readings are an indication that toxic alpha levels are present. Alpha radiation is toxic only when ingested (such as by drinking contaminated groundwater or by eating foods contaminated by radioactive dirt) or when inhaled (such as breathing airborne dusts). Anything with gamma readings of above 25 Micro Roentgens is regulated. Testing can be performed to determine alpha radiation levels. If a company is registered, their equipment or materials registering more than 5 picocuries/gram must be licensed. If the company is not already registered, equipment between 5 and 30 picocuries/gram may be exempt, but equipment registering levels above 30 picocuries must be licensed. Table 13 is a listing of facilities which have measurable amounts of Naturally Occurring Radioactive Materials and the levels of radiation

associated with each facility. There is only one facility located in the project area from Orleans and St. Bernard Parishes.

**TABLE 13  
NATURALLY OCCURRING RADIOACTIVE MATERIAL**

Facility ID	Ser #	Location	High Reading uR/hr
Southern Scrap Material Co	N693	4801 Florida Ave New Orleans, LA 70117	50

The LDEQ NORM file contained no information on the Southern Scrap Material Site on Almonaster Avenue. There was information on a site visit to a Baton Rouge, LA plant which received radioactive material accidentally from a nuclear power station. On this report the licensee is listed at the New Orleans address. It is not known if this is why the site is listed or if there was any radiation problems at the New Orleans facility.

**C.5.1.3. DISCUSSIONS WITH PORT OF NEW ORLEANS PERSONNEL.** An area of possible concern disclosed by Port of New Orleans personnel was the US Navy activities which occurred at the Boland Marine and Florida Avenue Wharf sites during World War II. During discussions with Port personnel, it was stated that munitions were shipped out from these sites, and some munitions had fallen into the canal and may still be there. It was also stated that during sewer/utility work at the Florida Avenue Wharf site a contractor encountered such munitions. No other documentation of these occurrences were found during the agency record search nor the land use history search to substantiate the statements.

The following table lists companies along the IHNC as recorded in the Port of New Orleans Port Series No. 2 Report, revised in 1990. The company's name, address, descriptive location on the IHNC waterfront, property owner and the purpose for which the land is used is included. All property is owned by the Board of Commissioners of the Port of New Orleans and leased to the company listed below.

**TABLE 14  
FACILITIES OPERATING ALONG THE IHNC**

Company Name	Address	Location	Operated by	Purpose for which used
Saucer Marine Service Lower Deck N Claiborne Ave	1910 Surekote Rd	east site IHNC, approx 600 ft north occasional receipt of	Saucer Marine Services, Inc	Mooring small vessels and barges for repair; of

TABLE 14 continued

Company Name	Address	Location	Operated by	Purpose for which used
Saucer Marine Service, Upper Deck	1910 Surekote Rd	Bridge east side IHNC, approx 0.25 mile north of N Claiborne Ave Bridge	Saucer Marine Services, Inc	steel Mooring small vessels for repair and outfitting; mooring floating dry-docks
MG Mayer Yacht Services Repair Wharf	2100 Surekote Rd	east side IHNC, approx 0.4 mile north of N Claiborne Ave Bridge	MG Mayer Yacht Services Inc.	Mooring small vessels and barges for repair
Distributors Oil Co. Wharf	2100 Surekote Rd	east side IHNC, approx 0.45 mile north of N Claiborne Ave Bridge	Distributors Oil Co., Inc.	Fueling small vessels, tugs, and towboats
Indian Towing Co. Mooring	2200 Surekote Rd	east side IHNC, approx 0.5 mile north of N Claiborne Ave Bridge	Indian Towing Co., Inc.	Mooring and repairing company-owned floating equipment.
McDonough Marine Service Wharf	2300 Surekote Rd	east side IHNC, approx 0.4 mile south of Florida Ave Bridge	McDonough Marine Services, Division of Marmac Corp.	Mooring company-owned floating equipment
Surekote Road Wharf		east side IHNC, approx 500 ft south of Florida Ave Bridge	Not operated	Not used
Southern Scrap Material Co. Wharf	4801 Florida Ave	east side IHNC, approx 750 ft north of Florida Ave Bridge	Southern Scrap Material Co., Ltd.	Receipt of scrap metal barge; shipment of scrap metal and heavy machinery by ship and barge
Lane & Co. Wharf	3000 Industrial Canal Harbor Rd	east side IHNC, approx 0.4 mile north of Florida Ave Bridge	Not operated	Not used
Barriere Construction Co. Dock	3050 Industrial Canal Harbor Rd	Southeast side of turning basin at junction of MRGO with IHNC	Barriere Construction Co., Inc.	Occasional receipt of limestone by barge
Gulf Marine Mooring Dock		South side of MRGO at entrance to turning basin and IHNC	Gulf Marine, Inc.	Mooring large vessels for maintenance and storage

**TABLE 14 continued**

Company Name	Address	Location	Operated by	Purpose for which used
Jourdan Rd Terminal Berths 4 & 5	3401 Jourdan Rd	North side of MRGO, approx 0.2 mile east of junction with IHNC	Ceres Gulf, Inc.	Receipt and shipment of conventional, containerized, and roll-on roll-off general cargo in foreign and domestic trade
Gulf Outlet Fuel & Marine Supplies, Fuel Dock	3450 Jourdan Rd	East side IHNC at junction with MRGO	Not operated	Not used
American Marine Corp Construction and Outfitting Wharf & Slip	3900 Jourdan Rd	East side IHNC at junction with MRGO	American Marine Corp.	Mooring small vessels, barges, and offshore oil well platforms for outfitting and repair
New Orleans Public Service, Paterson Power Plant Wharf		East side IHNC approx 0.7 mile above Chef Menteur Hwy Bridge	New Orleans Public Service, Inc.	Occasional receipt of fuel oil by barge for plant consumption
Milpark Drilling Fluids Loading Wharf	5100 Jourdan Rd	East side IHNC, north side of slip, approx 0.6 mile above Chef Menteur Hwy Bridge	Milpark Drilling Fluids, Inc.	Shipment of bulk and packaged drilling mud by barge and offshore supply vessels
Milpark Drilling Fluids Barge Loading Wharf	5100 Jourdan Rd	East side IHNC, north side of slip, approx. 0.7 mile above Chef Menteur Hwy Bridge	Milpark Drilling Fluids, Inc.	Receipt of barite ore and shipment of barium sulphate for oil well drilling operations by barge and offshore supply vessel
Dwyer Rd Wharf		East side IHNC, approx 0.8 mile above Chef Menteur Hwy Bridge	Not operated	Not used
United States Gypsum Co Wharf		East side IHNC, approx 0.7 mile below Seabrook Bridge	United States Gypsum Co.	Receipt of gypsum rock by self-unloading vessel; receipt of shell, and occasional receipt of coal by barge
Morrison Yard Lower Wharf		East side IHNC, approx 0.5 mile below Seabrook Bridge	Not operated	Not used

TABLE 14 continued

Company Name	Address	Location	Operated by	Purpose for which used
Morrison Yard Upper Wharf		East side IHNC, approx 0.4 mile below Seabrook Bridge	Not operated	Not used
Baroid Corp. Industrial Canal Turning Basin Barge Wharf	8000 Jourdan Rd	East side IHNC, approx 0.3 mile below Seabrook Bridge	Baroid Corp.	Shipment of bagged barite
Baroid Corp. Industrial Canal Warehouse Wharf	8000 Jourdan Rd	East side IHNC, approx 0.2 mile below Seabrook Bridge	Baroid Corp.	Shipment of bagged and bulk drilling mud
Baroid Corp. Industrial Canal Ship Wharf	8000 Jourdan Rd	East side IHNC, approx 700 ft below Seabrook Bridge	Baroid Corp.	Occasional mooring of barges
Dravo Basic Materials Landing	6401 France Rd	West side IHNC, on nw side of Slip No 6, approx 700 ft below Seabrook Bridge	Dravo Basic Materials Co.	Receipt and occasional shipment of sand, gravel, shell and limestone
Bean Dredging Corp. Dock	6201 France Rd	West side IHNC, on se side of Slip No 6, approx 0.2 mile below Seabrook Bridge	Bean Dredging Corp.	Mooring and repairing company-owned floating equipment
M-I Drilling Fluids Barge Slip	6000 France Rd	West side IHNC, on se side of Slip No 5 1/2, approx 0.3 mile below Seabrook Bridge	M-I Drilling Fluids Co.	Shipment of bulk and packaged drilling mud by barge and offshore supply vessel
M-I Drilling Fluids Unloading Dock	6000 France Rd	West side IHNC, approx 0.4 mile below Seabrook Bridge	M-I Drilling Fluids Co.	Receipt of barite
Slip No. 5 Upper Landing		Approx 0.5 mile below Seabrook Bridge	Not operated	Not used
Slip No. 5 Lower Landing		West side IHNC, approx 0.6 mile below Seabrook Bridge	Not operated	Not used
Halter Enterprises Development Corp., Barge Slip	5601 France Rd	West side IHNC, approx 0.7 mile below Seabrook Bridge	Halter Enterprises Development Corp.	Mooring newly constructed pleasure craft for outfitting
Orleans Materials &	5501 France Rd	West side IHNC, approx	Orleans Material	Receipt and occasional

TABLE 14 continued

Company Name	Address	Location	Operated by	Purpose for which used
Equipment Co, Barge Slip		0.8 mile below Seabrook Bridge	& Equipment Co., Inc.	shipment of structural and reinforcing steel by barge
Ideal Cement, North Dock House Wharf	5301 France Rd	West side IHNC, approx 0.7 mile above Chef Menteur Hwy Bridge	Ideal-Basic Industries, Cement Division	Shipment of bulk cement by barge
Ideal Cement, South Dock House Wharf	5301 France Rd	West side IHNC, approx 0.6 mile above Chef Menteur Hwy Bridge	Ideal-Basic Industries, Cement Division	Receipt of bulk cement by self-unloading barge
Missouri Portland Cement Co. Dock	5201 France Rd	West side IHNC, approx 0.5 mile above Chef Menteur Hwy Bridge	Missouri Portland Cement Co.	Receipt and shipment of dry bulk cement by self-unloading vessels
Trinity Marine Group, Outfitting Wharf	4325 France Rd	West side IHNC, approx 0.4 mile above Chef Menteur Hwy Bridge	Trinity Marine Group, Trinity Industries, Inc.	Mooring vessels for outfitting and repair
Trinity Marine Group, Barge Basin	4325 France Rd	West side IHNC, approx 0.3 mile above Chef Menteur Hwy Bridge	Trinity Marine Group, Trinity Industries, Inc.	Mooring barges for outfitting and repair
Trinity Marine Group, Plant Wharf	4325 France Rd	West side IHNC, approx 0.2 mile above Chef Menteur Hwy Bridge	Trinity Marine Group, Trinity Industries, Inc.	Handling plant materials and equipment to and from barges
Trinity Marine Group, Shear Shop Wharf	4325 France Rd	West side IHNC, approx 300 ft above Chef Menteur Hwy Bridge	Trinity Marine Group, Trinity Industries, Inc.	Handling plant materials and equipment to and from barges
Louisiana Materials Co. Wharf	5450 France Rd	West side IHNC, approx 400 ft above Chef Menteur Hwy Bridge	Louisiana Materials Co., Inc.	Occasional receipt of crushed stone and sand by barge
New Orleans Harbor Police Almonaster Ave Bridge Mooring	France Rd	West side IHNC, lower side at rear of Almonaster Ave Bridge fender system	New Orleans Harbor Police	Mooring patrol boats
Pontchartrain Materials Corp. Slip	3819 France Rd	West side IHNC, Slip No. 4, approx 750 ft below US I-10 Bridge	Pontchartrain Materials Corp.	Receipt and shipment of limestone, shell, and sand by barge
Port of NO, Lower Slip No. 3 Mooring		West side IHNC, nw side of Slip No. 3, approx 500 ft from	Not operated	Not used

TABLE 14 continued

Company Name	Address	Location	Operated by	Purpose for which used
		entrance, 0.4 mile below I-10 Bridge		
Port of NO, Upper Slip No. 3 Mooring		West side IHNC, inner end of ne side of Slip No. 3, approx 0.4 mile below I-10 Bridge	Not operated	Not used
Louisiana Scrap Metal Co Wharf	3666 France Rd	West side IHNC, west side of Slip No. 3	Louisiana Scrap Metal Co., a subsidiary of Alter Trading Corp.	Receipt and shipment of steel by barge
France Rd Terminal, Berth No. 6, Roll-on, Roll-Off Ramp	3501 France Rd	West side IHNC, approx 0.9 mile north of Florida Ave Bridge	New Orleans Marine Contractors, Division of Baton Rouge Marine Contractors, Inc.	Receipt and shipment of roll-on roll-off general cargo in foreign and domestic trade
France Rd Terminal, Berths No. 5 and 6	3501 France Rd	West side IHNC, approx 0.7 mile north of Florida Ave Bridge	New Orleans Marine Contractors, Division of Baton Rouge Marine Contractors, Inc.	Receipt and shipment of containerized general cargo in foreign trade
France Rd Terminal, Berth No. 4	4000 France Rd	West side IHNC, approx 0.5 mile north of Florida Ave Bridge	Puerto Rico Marine Manage- ment, Inc.	Receipt and shipment of containerized general cargo in foreign and domestic trade
France Rd Terminal, Berths No. 2 and 3	2700 France Rd	West side IHNC, north of Florida Ave Bridge	Port of NO and SeaLand Services, Inc.	Not used, Wharf in pre- construction phase, some leased by SeaLand Services
France Rd Terminal, Berth No. 1,	2700 France Rd	West side IHNC, north of Florida Ave Bridge	Sea-Land Services, Inc.	Receipt and shipment of containerized general cargo in foreign and domestic trade
Florida Ave, Roll-on Roll-off Wharf		IHNC, north portion of west side of turning basin, south of Florida Ave Bridge	Port of NO	Receipt and shipment of roll-on roll-off general cargo in foreign and domestic trade

**TABLE 14 continued**

Company Name	Address	Location	Operated by	Purpose for which used
Florida Ave Wharf		IHNC, south portion of west side of turning basin, south of Florida Ave Bridge	Port of NO	Receipt and shipment of conventional general cargo in foreign and domestic trade
Citadel Cement Wharf	2315 Florida Ave	IHNC, lower portion of west side of turning basin, south of Florida Ave Bridge	Citadel Cement Corp.	Receipt of cement by barge
American Steel Corp. Wharf	4501 N. Miro St	West side IHNC, south side of turning basin, south of Florida Ave Bridge	American Steel Corp.	Receipt and shipment of structural and flat-rolled, steel, and wire products by barge
Galvez Street Wharf	Foot of North Galvez Street	West side IHNC, approx 400 ft above N Claiborne Ave Bridge	Port of NO	Receipt and shipment of conventional and containerized cargo in foreign and domestic trade
US Coast Guard New Orleans Station Wharf	4640 Urquhart	West side IHNC, below N Claiborne Ave Bridge	US Coast Guard	Mooring US Coast Guard vessels
US Coast Guard New Orleans Station Small Craft Mooring	4640 Urquhart	West side IHNC, below lock at rear of fender system	US Coast Guard, New Orleans Harbor Police, and US Custom Service	Mooring patrol boats

**C.5.1.4. DISCUSSIONS WITH LOUISIANA STATE POLICE.** The State Police keeps a log books of all emergency hazardous material spills to which they respond. The following is a listing of their logs from 1988 to 1992. Since LDEQ Emergency Response and New Orleans Fire Department Hazardous Material Unit also respond to emergency spills in other capacities, some crossover exists between each organization's respective data. Only spills occurring in near proximity to the project area are included in Table 15.

**TABLE 15**  
**LOUISIANA STATE POLICE SPILL LOGS**

Incident # Amount	Date	Company	Location	Material	
HI880050	01/17/88	CSX Transportation	Railroad Almonaster Rd	Flammable Liquid NOS	20000
HI880080	01/27/88	Southern Railway-American Cy	2101 St Ferdinand	Anhydrous Ammonia Vapor	15
HI880106	02/03/88	Renaissance Carpet Cleaning	5500 blk Morrison Rd	Unknown	Unkn
HI880139	02/13/88	Southern Railway	2101 St Ferdinand	Sulfur Dioxide	Unkn
HI880184	03/01/88	SeaLand	2700 France Rd	Toluene De Isocyanate	Unkn
HI880209	03/08/88	NO Marine Contractors	3401 France Rd	Ethyl Alcohol (Whiskey)	35000
HI880220	03/10/88	NO Marine Contractors	3501 France Rd	Diphenylamine	Unkn
HI880239	03/18/88	UOP (Manufacturer)	2401 Elysian Fields	Diethyl Benzene	Unkn
HI880265	03/26/88	Southern RR	Oliver Yard New Orleans	Gas Vapor	1/4 Cup
HI880284	03/31/88	Unknown	4500 N Galvez	Insecticide-Vydate	Unkn
HI880324	04/13/88	CSX Southern Railway	St Rock Street	Empty-LPG	Unkn
HI880325	04/13/88	Southern Railway	CXST Interchange Rd	LPG	Unkn
HI880332	04/15/88	Southern Rail Yard	Elysian Fields 2901 St Ferdinand	Sodium Hydroxide	Unkn
HI880357	04/21/88	NO Marine	3501 France Rd Berth 6 Warehouse	Arsenic Trioxide Solid	1-2 gals
HI880374	04/26/88	Unknown	6701 Almonaster Ave CSX RR Yard	Anhydrous Ammonia	Unkn
HI880386	04/30/88	Coastal Cargo	Galvez Street Wharf	Perclozo Ethylene	Unkn
HI880449	05/18/88	SeaLand	2700 France Rd	Resin Solution	Unkn
HI880481	05/26/88	NO Marine Contractors	3501 France Rd	Malathion	None
HI880482	05/26/88	CSX Transportation	Gentilly Yard of CSX	Vinyl Acetate	Unkn
HI880499	05/31/88	Purtorico Marine Management	4000 France Rd	Waste Corrosive Solid	30 gals
HI880508	06/02/88	Unknown	Almonaster & Higgins	Unknown	Unkn
HI880516	06/03/88	Southern Railway	2101 St Ferdinand-North End of Scale Tr	Sulfuric Acid	Unkn
III880533	06/10/88	Southern R Railroad	Press St/Robinson in yard	Isopropanal Alcohol	Unkn
HI880537	06/11/88	Southern Railroad	2952 N Dorgenois- Oliver Yard	Drinbund Wine	3600 lbs
HI880544	06/14/88	Puerto Rico Marine Mgmt	3401 France Rd Terminal	Diethyl Benzene	5-10 gals
HI880646	07/15/88	Puerto Rico Marine Mgmt	4000 France Rd Parkway	Denatured Alcohol	Unkn
HI880652	07/17/88	CSX Transportation	Gentilly Railroad Yard	Anhydrous Ammonia	Unkn
HI880656	07/18/88	Puerto Rico Marine	4000 France Rd Pkwy, Berth #4	Butyl Acetate	Unkn
HI880682	07/28/88	NO Marine Contractors	3501 France Rd	Ethanol Solution	1 qt
HI880732	08/09/88	Sea/Land Pioneer Inc/ Glynwood	2700 France St	Flammable Paint	Unkn
HI880743	08/12/88	Southern Railroad	2101 St Ferdinand	Anhydrous Ammonia	Unkn
HI880772	08/20/88	Unknown	SeaLand Shipping- 2700 France Rd	Butyl Ether/ Ethylene Glyc	20 gals

TABLE 15 continued

Incident # Amount	Date	Company	Location	Material	
HI880811	08/31/88	Unknown	Elysian Fields and Lakeshore Dr	Orange Liquid	Unkn
HI880818	09/02/88	Southern Railroad	2101 St Ferdinand	Acetic Acid	None
HI880851	09/09/88	SeaLand	2700 France Rd	Ethyl Alcohol	Unkn
HI880862	09/12/88	Unknown	Galvez St Wharf	Fax A 22	None
HI880866	09/13/88	CSX Transport	Gentilly Yards	Styrene Monomer	1 gal
HI880877	09/17/88	Unknown	4111 N Claiborne	Liquid Oxygen (Gas)	Unkn
HI880895	09/20/88	CSX Transportation	Almonaster Street Railyard	LP Gas	Unkn
HI881004	10/21/88	SeaLand Service Inc	2700 France Rd	Muratic acid	1-2 gal
HI881049	11/01/88	Unknown	Downman & Hayn- Lakefront Airport	Aviation Fuel	Unkn
HI881076	11/08/88	SeaLand	2700 France Rd	Benzaldehyde	Unkn
HI881119	11/24/88	Harbor Police	Poland/Galvez	Unknown	Unkn
HI881125	11/25/88	SeaLand	2700 Frances Rd	Ethyl Mercaptan	5 gals
HI881145	12/05/88	Charlie Sam Export Transportation	CSX Railroad at Almonaster St in yard	Styrene & Resin Solution	10 gal
HI881152	12/09/88	New Orleans Fire Dept	Puerto Rican Marine- 3400 France Pkwy	Waste Poison B	1/2 drum
HI881216	12/29/88	New Orleans Fire Dept	339 Arts St	Ether and Ehtane	2cylinders
HI881217	12/29/88	Biehl and Company Agent	3501 France Rd	Flammable Liquid NOS	55 gal
HI890035	01/11/89	New Orleans Fire Dept	CSX Railroad Yard 6701 Almonaster Rd	Oxygen & Acetylene	Unkn
HI890105	02/02/89	New Orleans Fire Dept	Norfolk Southern St Ferdinand & N Mi	Styrene	Unkn
HI890145	02/13/89	CSX Transportation	Rail Yard on Almonaster	Organophosphorous pesticide	Unkn
HI890153	02/15/89	CSX Transportation	CSX Railroad Gentilly Rail Yard	Acetic Acid Glacial	Unkn
HI890167	02/20/89	Norfolk Southern Railroad	2201 St Ferdinand at Norfolk Southern Ya	Sodium hydro sulf sol	Unkn
HI890181	02/24/89	Sea-Land Service	2700 France Rd	Nachete-butacolor	Lt 5-gal
HI890253	03/14/89	Norfolk Southern	2201 St Ferdinand	Ethyl Alcohol Drinking Alcohol	1 cup
HI890259	03/15/89	Southern RR	2101 St Ferdinand	Alcohol	Unkn
HI890327	03/30/89	CSX Transportation	Gentilly Yard in NO	Ammonia Vapors	Unkn
HI890409	04/19/89	CSX Transportation	Almonaster	Laquer	1/2 gal
HI890412	04/20/89	Southern RR	Oliver Yard-2101 St Ferdinand	Caustic Soda	1 gal
HI890448	04/28/89	Southern Rail Way	Oliver yard at 2101 St Ferdinand	Caustic Soda	Unkn
HI890501	05/09/89	Jobber Oil Transport Co	Caffin Ave & N Claiborne Ave	Diesel	Unkn
HI890532	05/18/89	Canal Marine Repair	2100 Surekott	Acetylene	Unkn
HI890533	05/18/89	NO Fire Department	2101 St Ferdinand	Petroleum Naptha	Unkn

TABLE 15 continued

Incident # Amount	Date	Company	Location	Material	
HI890728	07/05/89	SeaLand	Sealand 2700 France Rd	Organo Phorus Pesticide	165 gal
HI890801	07/27/89	NO Public Service	6101 France Rd	PCB	Unkn
HI890836	08/03/89	Jugoliuijo-CSX Railroad	7801 Almonaster	Caustic Resin Solution	1 gal
HI890843	08/06/89	Norfolk Southern RR	2101 St Ferdinand	Petroleum Naptha	Unkn
HI890873	08/11/89	CSX RR Co	7801 Almonaster	Methyl Parathion	1 drum leaking
HI890911	08/21/89	Unknown	I-10 E/B at Downman Rd off-ramp	Acetic Acid	55 gal drum
HI890915	08/18/89	Canal Marine (NO Sewerage & W	NO Sewerage & Water Board/2100 Surecoat	Diesel	10 - 15 gals
HI890982	09/10/89	CSX Transportation	Gentilly Yard	Unknown	Unkn
HI891030	09/20/89	NOMC (New Orleans Marine Corp)	NOMC 3501 France Rd- Berth 5	Propanetiols Mercaptan	Unkn
HI891085	10/03/89	Shell Oil	2101 St Ferdinand St/ Southern RR	LPG	1 gal
HI891114	10/09/89	New Orleans Fire Dept	3501 Frances Rd	Butyl Mercaptan	Unkn
HI891316	11/24/89	NO Marine Contractors	3501 France Rd	Butyl Trichlorsilon	100 gals
HI891360	12/07/89	Norfolk Southern Railway	2101 St Ferdinand St	I.P.G	Unkn
HI900098	01/17/90	NOMC/New Orleans Marine Contractors	3501 France Rd/Berth 6	Dimethylamine- propylamine	1 gal
HI900109	01/18/90	Sea Land	Sea Land/2700 France Rd	Propyl Acetate	11 drums
HI900243	02/17/90	NO Marine Contractor	NO Marine Contractor/ 3501 France Rd	Vinyl Toluene	Unkn
HI900349	03/12/90	NOMC	NOMC/3501 France Rd	Methidation (Pesticide)	11000 lbs
HI900388	03/18/90	Norfolk Southern RR	Norfolk Southern RR/ 2101 St Ferdinand	Rail (Anhydrous Ammonia)	Unkn
HI900418	03/27/90	NOMC Inc/Shipper Marine Contra	Behind Berth #5, 3501 France Rd	Alcoholic Beverage	1 pint
HI900435	03/29/90	NOMC Inc	NOMC Inc/ 3501 France Rd	Ethylcyclohexyl- amine	1 pint
HI900449	04/02/90	NOMC	NOMC/3501 France Rd	Ethyl Etaycehexa- ylamine	Unkn
HI900459	04/04/90	NOMC	NOMC/3501 France Rd	Ethyl Clohexylamine	1/2 gal
HI900480	04/09/90	NOMC Inc	NOMC Inc/ 3501 France St	Bromide	Unkn
HI900583	05/01/90	Agratran S A	4400 N Galvez	Tricluralin	5 gals
HI900704	05/27/90	International Petroleum Corp	Intracoastal Canal	Toxic Water	200,000 gals
HI900751	06/08/90	Cenac Towing Co	4801 Florida behind Southern Scrap	Petroleum/ Chunchula Conde	1200 gals
HI900966	07/12/90	Neeb Kearney	4400 N Galvez	Trimethylphosphate	2 gals

TABLE 15 continued

Incident # Amount	Date	Company	Location	Material	
HI900978	07/16/90	Southern RR(Norfolk)	2101 St Ferdinand	Rail (Styrene Monomer)	Unkn
HI901181	08/16/90	Southern Railroad	2101 St Ferdinand	Rail (LPG No Leaks)	Unkn
HI901302	09/07/90	CSX Transportation Incorp	CSX Gentilly Yard	Rail(Methanol)	5-10 gals
HI901330	09/13/90	Sea Land Service Inc	2700 France Rd in Warehouse	Toluene	2 ounces
HI901385	09/20/90	NOMC	3501 France Rd	Diisocyanate	
HI901425	09/24/90	NOMC Incorp	3501 France Rd	Methyl Mercaptor-propionate	Unkn
HI901579	10/13/90	NO Public Service	Almonaster & Industrial Canal	Ortho Chloroaniline	Unkn
HI901641	10/22/90	Norfolk Southern RR & Deaton T	Florida Ave between Almonaster & St Ferd	Natural Gas	Unkn
HI901703	10/30/90	Sealand Industries	2700 France Row	Round Up Weed Killer	Unkn
HI901841	11/19/90	New Orleans Fire Dept	Almonaster at Old Gentilly Road	Unknown	Unkn
HI901861	11/21/90	CSX	Off Almonaster-Gentilly Yard	Hydrogen Chloride	Unkn
HI901962	12/07/90	CSX Transportation Co	Gentilly Yard	Glacial Acaetic Acid	Unkn
HI901991	12/11/90	CSX	Railyard/Almonaster	Sodium Hydroxide	< 1 gal
HI902034	12/17/90	Southern Railway	Oliver Yard	Hydrochloric Acid	Unkn
HI902096	12/27/90	CXX Trans	2101 St Ferdinand	Ammonia	1/2 gal min
HI902120	12/29/90	CSX Trans	Gentilly Yard	Perchlorate	
HI910033	01/08/91	NOMC Incorp	3501 France Rd	Pulp Mill Liquid	< 1 gram
HI910149	01/25/91	Sea Land Services	2700 France Rd	Waste Oil	1 qt
HI910173	01/28/91	NOMC	In Yard of 3501 France Rd	Eptam Technical	2.5-3 gals
HI910313	02/19/91	Norfolk Southern Railway	2101 St Ferdinand St	Herbicide	
HI910418	03/04/91	NOMC	Oliver Yard	Poison B	-1 qt
HI910425	03/05/91	Sea-Land	3501 France Rd	Chloromethy-isothiazolin	2 cups
HI910588	03/27/91	Sealand	2700 France Rd	LPG	Vapor
HI910691	04/06/91	NO Marine Contractors	3501 France Rd	Acrylic Acid	cup
HI910709	04/09/91	NOMC Inc	3501 France Rd	Sodium Cyanide	2containers
HI910964	05/04/91	Porta Rica Marines	3401 France Rd	RDI-Polypropylene Glycol	Unkn
HI911258	05/30/91	NOMC	3501 France Rd	Trimethyl Orthoformate	1/2 gal
HI912215	08/18/91	CSX	Gentilly Yard	Dimethyl Propionic Acid	slight drip
HI912256	08/21/91	NO Marine Contractors	Almnoaster Rd	Brake Fluid	5000 gals
			3501 France Rd	Mercaptethanol	1 gal
			3501 France Rd	LP Gas	Unkn
			3501 France Rd	Benzene Methanamine	Unkn
				2 4 D	

TABLE 15 continued

Incident # Amount	Date	Company	Location	Material	
HI912325	08/27/91	CSX Transportation	Gentilly Yard	Sodium Hydroxide	very little
HI912396	09/01/91	Norfolk Southern Railway	Florida Ave & Peoples St N end of Yard	Diesel Fuel	50 - 60 gals
HI912642	09/21/91	Gulf States Cartage Co	3600 France Rd	Diesel Fuel	Unkn
HI912887	10/08/91	CSX Transportation Charlie Sam	CSX Railroad Yard/ 6701 Almonaster Rd	Styrene Monomer	1 gal
HI912947	10/13/91	CSX Transportation	Gentilly Yard Almonaster St	Propane	30
HI913170	10/30/91	Unknown	Poland St Wharf	Unknown	Unkn
HI913210	11/03/91	CSX Transportation	Gentilly Yard	Isopropanol	< 2 gals
HI913345	11/13/91	CSX Transportation	Gentilly Yard	Unknown	None
HI920100	01/09/92	CSX	Gentilly Yard	Acrylonitrile	Unkn
HI920147	01/14/92	CSX Trans	Rail Yard 6701 Almonaster	Sulfuric Acid	1 gal
HI920215	01/20/92	Hired Trucking Company	4800 Florida St	Diesel	50 gals
HI920351	02/02/92	CSX	Gentilly Yard	Sulfuric Acid	None
HI920405	02/06/92	NOMC Inc	3501 France Rd	Flammable Liquid NOS	< 1 cup
HI920413	02/07/92	NOMC Inc	3501 France Rd	S Ethyl Dipropyl	1 qt
HI920464	02/12/92	NOMC Inc	3501 France Rd	S Ethyl Dipropylthiacarham	Drop minute
HI920559	02/20/92	CSX Transportation	Gentilly Yard	Sodium Hydroxide	1 gal
HI920735	03/07/92	Unknown	Elysian Fields & North Peters	Unknown	Unkn
HI920739	03/07/92	CSX Transportation Co	CSX Railyard	Sulphuric Acid	Unkn
HI920920	03/24/92	CSX Railroad	7801 Almonaster	Ethylene	Unkn
HI921067	04/07/92	Unknown	3501 France Rd	Ethanol	1 cup
HI921095	04/09/92	CSX	Gentilly Yard 6701 Almonaster Rd	Acetone	1 gal
HI921149	04/13/92	Unknown	Schef and Jourdan Rd under the Dan	Diesel Fuel	Unkn
HI921340	04/26/92	Norfolk Southern Railroad	CSX Tinterbarge Near I-10	Methanol	Unkn
HI921342	04/26/92	CSX Transportation	Gentilly Yard	Glacial Acetic Acid	Unkn
HI921353	04/27/92	Unknown	Elysian Fields Ave	Diesel	90 gals
HI921496	05/05/92	CSX Transportation RR	6701 Almonaster Ave	Styrene Monomer	22 drop min
HI921771	05/24/92	Prism Specialized Trucking	Mardi Gras Truck Stop	Diesel	30 gals
HI921798	05/26/92	Unknown	Old Gentilly Rd	Diesel	1200 gals
HI921953	06/07/92	Southern Scape	4801 Florida	Propane	Unkn
HI921961	06/08/92	Chevron Station 108931	1601 Franklin St	Super Unleaded Gasoline	Unkn
HI922098	06/17/92	CSX	6701 Almonaster	Petroleum Oil	Unkn
HI922278	06/30/92	Unknown	4045 France Rd	Petrolane Asphalt	Unkn
HI922294	06/30/92	CSX Transportation	Gentilly Yard	Sulfuric Acid	- 1 gal
HI922448	07/13/92	Air Products	CSX Rail Yard	Ammonia	small amount

**TABLE 15 continued**

Incident # Amount	Date	Company	Location	Material	
HI922541	07/20/92	Unknown	Orleans Marine	Diesel Fuel	Unkn
HI922705	08/02/92	CSX Transportation	Gentilly Yard	Methanol	one gal
HI922736	08/04/92	NOMC	Berth 5 Row G Container Yard	Nitro Methane	Unkn
HI922782	08/08/92	CSX	Yard	Residue Fill NOS	Unkn
HI922796	08/07/92	CSX	Almonaster Yard NO	Petroleum Oil	1 gal
HI922821	08/10/92	NOMC	3501 France Rd	Nitro Methane	15 gals
HI922836	08/11/92	NOMC	3501 France Rd	Phosphoric Acid	None
HI922874	08/14/92	Not Listed	Jourdan Ave and Old Gentilly	Methyl Ethyl Ketone	5 gals
HI923457	09/18/92	CSX Railroad	4099 Industrial Pkwy	CO2-Anhydrous Ammonia	Unkn
HI923544	09/24/92	Unknown	Industrial Canal between Jourdan S	#6 Oil	Unkn
HI923631	10/02/92	Unknown	Jourdan St Terminal	Unknown	Unkn
HI923801	10/14/92	NO Marine Contractors	3501 France Rd Pkwy	Hydrogen Peroxide	small amt
HI923820	10/15/92	CSX R/R	Old Gentilly and Chef Mentour Hwy	Diesel	100 gals
HI923955	10/25/92	Conway South	4801 Almonaster	Unknown	1 gal P1/2 H
HI924337	11/25/92	Conway Trailers	Almonaster and Desire Pkwy	Thosphic Acid	Unkn
HI924364	11/30/92	Unknown	Franklin Ave/ N Robertson	Diescl	125 gals
HI924367	11/30/92	Hardin's Bakery	2600 N Robertson St	Diesel	90 gals
HI924613	12/21/92	Puerto Rico Marine	3401 France	Bunker Oil	10 barrels
HI924679	12/30/92	NOMC Inc	3501 France Rd	Paint Related & Aerosal C	Unkn

**C.5.1.5. NEW ORLEANS FIRE DEPARTMENT.** Because the Emergency Response Section at LDEQ, the State Police Spill Records and the New Orleans Fire Department spill records overlap, we did not obtain any information from the New Orleans Fire Department.

**C.5.1.6. LOUISIANA DEPARTMENT OF NATURAL RESOURCES.** Oil and gas wells are potential sources of petroleum hydrocarbon contamination and naturally occurring radioactive material (NORM) contamination as well as potential sources of physical hazards if they fall within construction zones. Even closed wells present physical hazards since the closure procedures generally require only that the well be cut off at 18" below plow depth (roughly 3' to 4'), plugged at the top 2' or 3', and a plate welded to the top. This leaves an open shaft of 6" to 30" diameter from approximately 5' to 7' below the surface to the depth of the well, usually 10,500' to 18,000' which could be opened during grading operations.

Contamination within the pits associated with oil and gas wells is primarily caused by

"produce water" associated with the production of oil and gas. Substances from deep within the earth naturally contain low levels of natural radiation. For periods extending as long as 30 years, these produce waters were disposed of in the pits. Over time, concentrated sludges were formed in the pits which contained high levels of radiation. Often, these pits were closed by filling and capping.

No information from LDNR was requested for this report because there are no oil fields within the project area.

**C.5.2. LAND USE HISTORY.** The land use within the project area is mainly industrial along the immediate area of the canal. Commercial as well as residential land use is also intermixed outside the immediate area bounding the canal. The land use history was reviewed through an evaluation of the information obtained from the 50 year land use history document and verified through the use of aerial photographs and maps. Deed search and local interviews were not utilized.

**C.5.2.1. REVIEW OF LAND USE HISTORY DOCUMENT.** A detailed description of the residential owners as well as types of commercial or industrial land uses for the project area are included in the Land Use History Report completed for this assessment. This report shows land use for the immediate canal area from 1940 to the present. The following is a brief synopsis of the information obtained from the research, for a complete land use history of the project area refer to the original document.

The IHNC opened in 1923, and showed a dramatic industrial expansion during the 1960's and 1970's. Sources utilized in the report are mainly Sanborn fire insurance maps and city directories. The report is informational in that it shows the chain of occupancy for many of the industrial sites along the canal. This information will be useful in identifying potentially responsible parties (PRPs) if contamination is identified in the HTRW Remedial Investigation.

A land use history conducted through utilization of the records of the Port of New Orleans indicated the following relevant information on sites within the project area. The sites visited during the HTRW visual site survey have their entire land use history documented, since this is the area of most probable excavation. Information on these sites follow.

Boland Marine and Manufacturing Co., Inc. (2500 Surekote Rd). The first occupant at this site was Metal Cutting Specialty Co., Inc. who leased the site from 1959 to 1969. This same year, International Metal Fabricators assumed the lease who then transferred the lease in 1970 to International Tank Terminals, also metal fabricators. In 1970, the Port of New Orleans cited International Tank Terminals for installing fuel tanks and a pump without permission. In 1979, Boland Marine and Manufacturing Co. Inc. subleased the area formerly occupied by International Tank Terminals. Boland then subleased the area in 1983 to Charlie White, as a support areas for a shipyard. The Port cancelled the Boland lease in 1988. The site has been unoccupied since this time.

Marmac Corporation (2300 Surekote Rd). Mc Donough first signed a lease on the site in 1951. Activities associated with the lessee included storage, servicing, and repairing marine equipment.

Indian Towing Co. (2209 Surekote Rd). The lease was obtained in 1954. Facilities are utilized for the storage and repair of floating equipment and the storage and sale of marine supplies. In 1954, Standard Paint and Varnish and Marine Paint and Varnish subleased a portion of the site for the purpose of manufacturing paint and handling vegetable oils. In November, 1988 a Real Estate Property Manager for the Port of New Orleans investigated the premises leased by Indian Towing Co. and reported that the shell surfacing was soaked with waste oil and that a partially submerged tank car body was observed along the waterfront. He indicated that the site did not appear to have been used for the purpose of the lease. He added that the yard was littered with tools, scrap iron, and other equipment. In 1980 and 1983, Indian Towing violated its lease by allowing ferro manganese ore cargo to be handled by M/V Skycliffe and by subleasing a portion of its facilities to Fosti Fueling Services, both items not agreed to in the lease.

Canal Marine Repairs/Petroleum Products; Distributors Oil (2200 Surekote Rd). Canal Marine Repairs the acquired lease in 1951, and although site has the same street address as Indian Towing Co., the site is not the same. In 1977, Canal Marine Repairs subleased a portion of the site to Delta Steamship Lines for use as a ship repair facility. Three years later, Canal Marine Repair became Petroleum Products, an affiliate of ARCO. During this period, the Port of New Orleans authorized the use of the site as a fueling dock. In 1982, Petroleum Products liquidated its business and assigned the lease to Distributors Oil Co., who continues to use the site for commercial distribution of fuel.

MG Mayer Yacht Service, Inc. (2100 Surekote Rd). MG Mayer Yacht Service Inc., who provides yacht repair and maintenance, acquired the lease in 1984 from Delta Steamship Lines who had previously been drydocking and repairing marine vessels at the site. In 1988, the Port charged Mayer with subletting to Lito's Machine Ship, Inc. and Ocean Technical Services, Inc. without authorization. Mayer denied the charges. Spartan Fiberglass, a small fiberglass manufacturing company owned by Mayer, also moved to the yard at this time.

Saucer Marine Service (1910 Surekote Road). Inland Waterways Corp., later known as Federal Barge Lines leased the site in 1951. The site is used for repair, servicing, and constructing marine vessel. In August, 1945, permission was granted by the Port of New Orleans to the Victory Oil Co. to install a 550 gallon UST. LDEQ has no knowledge of the tank, nor any indication that it was removed. Saucer's first lease was in 1954.

Citadel Cement Corp. (2315 France Road.) This currently operational company is the successor to a series of cement companies which have stood beside the canal since 1924, just one year after the canal was completed. The first was Phoenix Portland Cement Co., replaced by International Portland Cement Co. in 1925. The Louisiana Portland Cement Co. acquired the lease in 1927, in time became known as Lone Star Cement Corp., a subsidiary

of OKC Corp. An inventory of the site included two gypsum silos totaling 3,300 tons. In response to lawsuits charging cement dust pollution, EPA filed findings of violation and issued an order for compliance in connection with the dust emissions in 1979.

The land use history report also went into the structure and content of the state regulatory agencies. The CERCLIS listing, LARIS listing, Toxic Inventory Report (TRI), RCRA listing, etc. were researched in this report. All information obtained through NOD personnel record searching is also included within the body of this report.

The land use history report also presents all businesses operating during the last 50 years, segmented by smaller breakdown of years. Those businesses which had a high likelihood of causing contamination were targeted. The research revealed the following concerns: 1) The Port of New Orleans and environmental agency records indicate questionable activities and possible discharges into the environment of hazardous and/or toxic materials by some companies operating along the IHNC, particularly the Surekote Road area; 2) the Louisiana UST listing is incomplete - USTs depicted on Sanborn fire insurance maps of the project area (the former Flintkote Factory) are not listed; 3) environmental agencies do not provide any information on activities performed at the Flintkote asbestos mill (1946 - 1957) adjoining the project area; nor do EPA or LDEQ records reveal anything about Keasbay & Mattison, producers of corrugated asbestos products, held at the American Marine Corp. site from 1946 to 1952.

This land use history report should be used in conjunction with the Initial Assessment, and not merely as a reference document. The information above taken from the report is only a small portion of the land use history researched and documented. The report also contains tables of businesses, maps showing the location of these businesses and areas on the map highlighting areas possibly contaminated. Historic maps of businesses and development are also included.

**C.5.2.2. AERIAL PHOTOGRAPHS AND MAPS.** Aerial photos of differing scales and years were analyzed. The photos were generally used to determine and/or verify the history of land use in the area.

Two aerial photos of the project area were located from 1933. One shows the area of the turning basin south of Florida Avenue and the area across the canal from the Mississippi River Gulf Outlet. The photograph verifies that the following companies were not in existence in 1933: Florida Avenue Wharf, Sea Land, Bulk Transport Inc., and the J. Young and Co. Inc. These sites are shown on the 1986 Flood Control Navigation Maps of the Mississippi River. This aerial photograph also verifies that the industry operating at the present Citadel Cement Corp site was in operation in 1933, although it does not appear that all the buildings present during current times were present in 1933. The second aerial shows the area of the IHNC from I-10 south to the previous aerial photo. This photo verifies that the following sites which existed in 1986 did not exist in 1933: A Port of New Orleans site across from the MRGO, Edwards-Levy Metals Inc., American Marine Corp., Jahncke

Service Inc., and Boh Brothers Construction Co. Inc. From these aerial photos one can also see that France Road was not yet constructed in 1933.

A March 10, 1950 aerial photograph shows major industrial as well as residential and commercial development along the IHNC since 1933. France Road was constructed since 1933. The photo verifies that the following companies or their predecessors were in existence: Florida Avenue Wharf, Sea Land, Bulk Transport Inc., J. Young and Co Inc., a site operated by the Port of New Orleans, and Edward Levy Metals Inc. on the west bank of the IHNC.

Between the 1950 aerial and the October 22, 1960 aerial much of the industrial corridor on the east bank of the IHNC between Florida Avenue and North Claiborne Avenue was established. Also between this time period the North Claiborne bridge was built. The following sites or their predecessors were established: Boland Marine and Manufacturing Co Inc., Saucer Marine Service Inc., Canal Marine Repairs Inc., Indian Towing Co Inc., McDonough Marine Service and the Jourdan Avenue Wharf. On the 1950 aerial, some activity is noticeable in the area operated by Boland Marine and Manufacturing in the 1960 aerial. The New Orleans Military Terminal is seen on both the 1950 and 1960 aerial. The New Orleans Coast Guard Base at 4640 Urquhart Street was built between 1950 and 1960. These two sites are on the west bank of the IHNC.

Aerials from 1973 and 1981 show increased usage of the east and west banks of the IHNC although it is difficult to tell which sites expanded during this time period.

**C.5.2.3. DEED SEARCH.** A deed search was not conducted for this Initial Assessment. The anticipated results of a deed search were satisfied through the Land Use History document by R. Christopher Goodwin & Associates, Inc.

**C.5.2.4. LOCAL INTERVIEWS.** Because of the size of the project area assessed and the industrialized nature of the area, local citizens were not interviewed as to their knowledge of hazardous waste activities in the area. Instead, where necessary, the companies or land owners were contacted to request information of their knowledge of hazardous waste activities at their locations. These interviews are evidenced throughout the assessment report.

**C.5.3. VISUAL SITE SURVEYS.** A cursory visual site survey was conducted on July 21, 1992. Nine people participated with two Port of New Orleans personnel conducting the tour of seven NOD personnel representing the following offices: Real Estate Division; Engineering Division, Foundations and Materials Branch; and Engineering Division, Hydraulics and Hydrologic Branch. Six sites were visited along the east bank of the IHNC. This area was toured because of the high likelihood of excavation during project implementation. The following notes were taken at the sites visited:

**Boland Marine:** This site has not been occupied in approximately 8-10 years. The following

items were noted on site:

- Underground storage tanks
- Sandblasting previously conducted
- Generator building noted
- Stressed vegetation noted near northwest corner of property
- Pipes wrapped with possible asbestos
- 55 gallon drums noted

McDonough Marine Service (2300 Surekote Rd): The site is currently occupied and is used for mooring of company-owned floating equipment. The following items were noted on site:

- Numerous above ground storage tanks (most fenced or covered)
- No evidence of underground storage tanks, all tanks above ground storage
- Active sandblasting and painting on canal
- Stressed vegetation noted

Indian Towing (2200 Surekote Rd): The site is currently occupied and is used for mooring and repairing company-owned floating equipment. On the day of the inspection, there was a guard on site and a ship in dock. Generally, the grounds as well as the warehouse were unkept, debris was noted in numerous locations both inside and outside of the warehouse. The following items were also noted during the visit:

- Underground storage tanks
- Paint, varnish building
- 55 gallon drums
- Oil saturated soil
- Rusted storage tank in canal

Distributors Oil Company (2100 Surekote Rd): This site is currently occupied and is used for fueling small vessels, tugs and towboats. The following items of interest were noted during the site visit:

- Vertical above ground storage tanks in pit, discolored soil and rocks, petroleum smell noted
- Fueling dock near canal, evidence of fuel/oil on ground (fuel tanks above ground)
- 55 gallon drums on pallets
- 55 gallon drums laying near fence

MG Mayer Yacht Service (2100 Surekote Rd): This site is currently occupied and is used for mooring small vessels and barges for repair. A covered dock along the waterfront was noted. The following items of interest were also noted:

- Sandblasting sand mounds on site
- 55 gallon drums stacked along fence near entrance road
- Above ground storage tanks, discolored soil noted
- Oil saturated soils

Saucer Marine (1910 Surekote Rd): Part of site is occupied and part of it is abandoned. The occupied side is used for mooring small vessels and barges for repairs. The site visit for this site was conducted from within the vehicles. The following items were noted during the drive through of the site.

- Rubbish and 55 gallon drums, tank and discolored soil
- 2 upright tanks near edge of canal (noted from Galvez Street Wharf across canal)
- Underground storage tanks
- Above ground storage tanks
- Paint cans
- Abandoned area is overgrown, but nothing was noted from vehicle.

A cursory inspection of the existing lock was conducted on September 30, 1992 as part of an ERGO (Environmental Review Guide for Operations) Corps of Engineers in-house training. The lock mechanism itself was visited, along with the shop building and storage sheds. No evidence of spills were noted on site. A sheen was noted in the sump below the lock. When this sump was pumped back into the canal, a bad odor and a black stain on the concrete was noted, although the odor did not smell like it was petroleum related. Personnel operating the lock did indicate that a small building situated at the lock site was scheduled to be torn down due to asbestos contamination. He stated that the building had signs on it and was currently not in use. The building is located on the east side of the lock at St. Claude Avenue directly on the IHNC.

During the dates of the sampling efforts, no additional items were noted. During the sampling effort in the disposal areas, it was noted that the landfill situated between the two designated areas did not appear to adversely affect the surrounding waters through storm water runoff.

#### **C.6.0. CONCLUSIONS AND RECOMMENDATIONS**

The information provided in this Initial Assessment report was gathered through agency record search, land use history review, and visual site surveys. The conclusions and recommendations provided rely solely upon these three sources of information. No testing results or analysis are included. The sites identified in this report are not intended to eliminate the possibility of contamination by other sources, rather, it is intended to be used as a tool in identifying the most probable areas and sources of contamination.

A Remedial Investigation is currently underway in conjunction with this report. Because of the pending analysis, no definite conclusions were reached as a result of this Initial Assessment. Review of information provided in this report reveals the high possibility for finding HTRW contamination within the project area. The Remedial Investigation will undoubtedly identify the extent and location of contamination, and this Initial Assessment will aid in identification of potentially responsible parties (PRPs), ground water contamination sources, as well as contamination pathways through surface flow, air emissions or

underground flow. This Initial Assessment generally contains research of currently operational facilities or information from within the last 10 to 20 years. If contamination is found and an attempt to locate PRPs are made, consideration should be given to the historical land use history report.

This HTRW Initial Assessment satisfies the regulations required for a Reconnaissance Phase project. The level of effort included a search of all existing documents to identify known, reported, or suspected HTRW sites. These potential sites were characterized to include potential contaminants within the limits of available information. The Remedial Investigation will identify contaminant source areas, contaminant release mechanisms, exposure routes, and potentially exposed populations.

## **7.0 LIMITATIONS**

An Initial Assessment does not guarantee the non-existence of HTRW within or affecting the project area. The analysis, conclusions and recommendations in this report are based solely on information obtained from the record searches, land use history report, and visual site survey. This report does not constitute a guarantee or certification of the non-existence of HTRW contamination. Should additional information become available in the future, this report may be modified to reflect the information.

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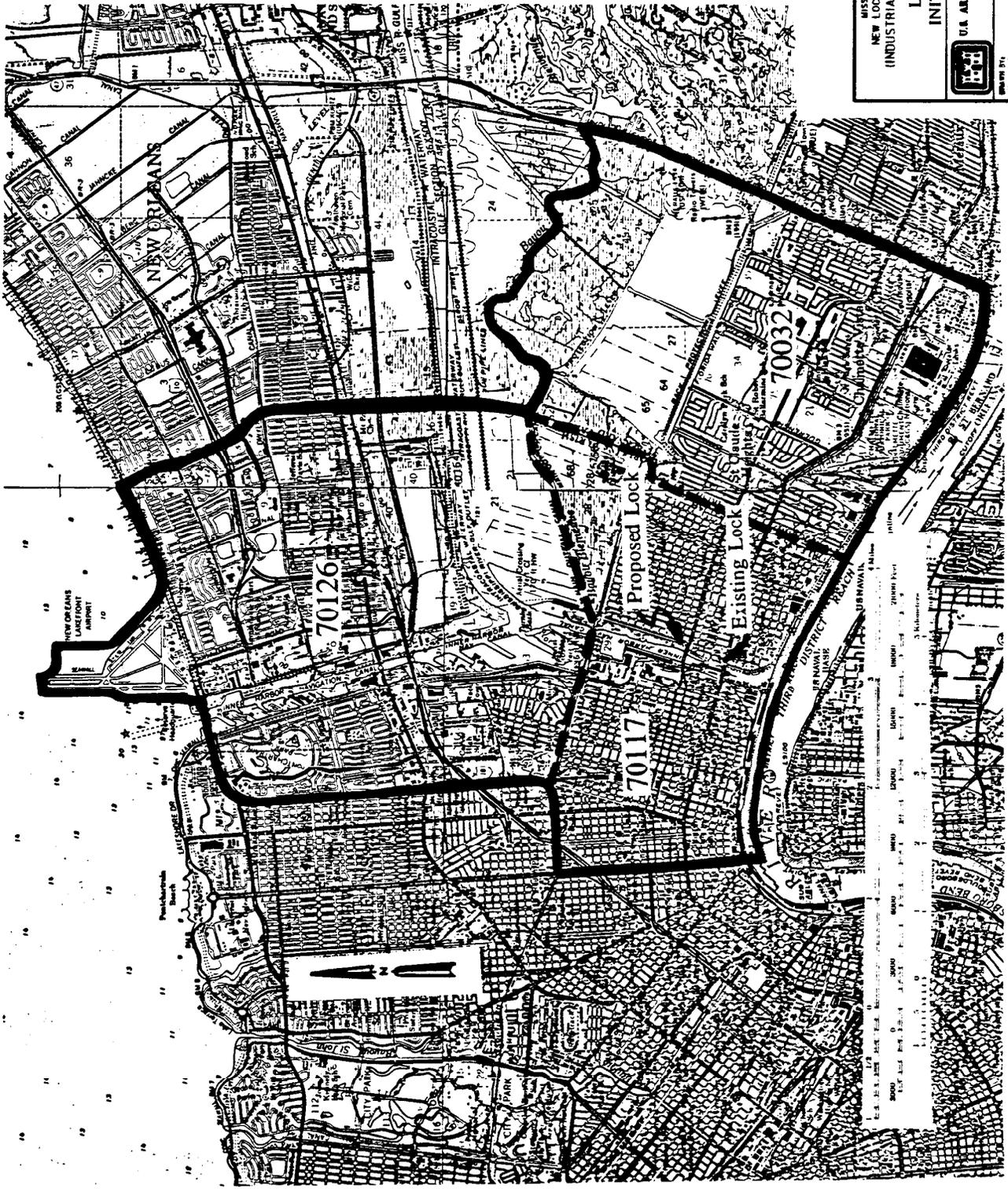
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MISSISSIPPI RIVER - GAP OUTLET  
 NEW LOCK AND CONNECTING CHANNELS  
 (INDUSTRIAL CANAL LOCK REPLACEMENT)  
 FEASIBILITY STUDY  
 LIMITS OF HTRW  
 INITIAL ASSESSMENT

**U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS**  
 CORPS OF ENGINEERS  
 NEW ORLEANS, LOUISIANA

DATE: 11-4-1963  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 SCALE: 1" = 1000'