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USATHAMA

U.S. Army Toxic and Hazardous Materials Agency

Task Order 2 Enhanced Preliminary Assessment



NEW ORLEANS
MILITARY OCEAN TERMINAL
NEW ORLEANS, LOUISIANA

Contract Number DAAA15-88-D-0007

December 1989

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U.S. Army Toxic and Hazardous Materials Agency
Aberdeen Proving Ground, Maryland 21010-5401

Prepared by



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West Chester,
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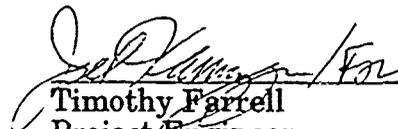
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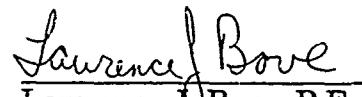


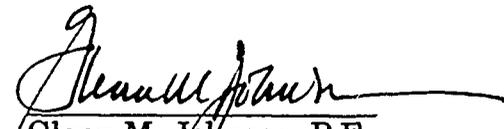
Report No. CETHA-BC-CR-89354

USATHAMA Task Order 2
ENHANCED PRELIMINARY ASSESSMENT
NEW ORLEANS MILITARY OCEAN TERMINAL
NEW ORLEANS, LOUISIANA

Contract No. DAAA15-88-D-0007


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19. ABSTRACT (Continue on reverse if necessary and identify by block number) A preliminary assessment was conducted at the New Orleans Military Ocean Terminal (New Orleans MOT), which is planned for inclusion in the Base Closure Program. New Orleans MOT is located at the intersection of the Mississippi River and the Inner Harbor Navigation Canal within the corporate limits of New Orleans, Louisiana. The facility can be divided into two major activities: warehousing and shipping and privately owned vehicle shipment preparation. New Orleans MOT has had the assignment of shipping Department of Defense materials through New Orleans since 1919 although this activity was interrupted to an uncertain extent from 1922 to 1942. No environmentally significant operations (ESOs) were observed during the site visit on 24 October 1989 or during follow-up interviews that would require immediate action. A geophysical survey is recommended to confirm the presence of three possible tanks on the property. All transformers should be tested for polychlorinated biphenyls. Asbestos sampling is recommended for all buildings. Soil samples should be obtained along existing and prior rail lines and near the vehicle wash rack. The sediments under the berths should be sampled. The objective of the sampling is to detect possible contamination from past releases.			
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Environmentally Significant Operations

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE



DISCLAIMER

This Enhanced Preliminary Assessment report is based primarily on the environmental conditions observed at the New Orleans Military Ocean Terminal, located in New Orleans, Louisiana, on 24 October 1989. Past site conditions and management practices were evaluated, based on readily available records and the recollections of people interviewed. Every effort was made, within the scope of the task, to interview all identified site personnel, especially those personnel with a historical perspective of site operations.

No environmental sampling was conducted as part of the assessment. The findings and recommendations for further action are based on WESTON's experience and technical judgment, as well as current regulatory agency requirements. Future regulations as well as any modifications to current statutes may affect the compliance status of this site.

WESTON does not warrant or guarantee that the property is suitable for any particular purpose or certify any areas of the property as "clean." A more thorough investigation, including intrusive sampling and analysis for specific hazardous materials, is recommended prior to reporting this property as excess.

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Unannounced	<input type="checkbox"/>
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Executive Summary



EXECUTIVE SUMMARY

BACKGROUND AND OBJECTIVES

This Enhanced Preliminary Assessment (PA) report has been prepared by Roy F. Weston, Inc. (WESTON) at the request of the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) pursuant to Contract DAAA15-88-D-0007, Task Order 2. The purpose of the PA report is to present WESTON's findings concerning the environmental conditions at the New Orleans Military Ocean Terminal (New Orleans (MOT) in New Orleans, Louisiana, and to provide recommendations for further action.

The objectives of the PA were to:

- Identify and characterize environmentally significant operations (ESOs) associated with the historical and current use of the New Orleans MOT property.
- Identify and characterize possible impacts of the ESOs on the surrounding environment.
- Identify additional environmental actions, if any, that should be implemented for the ESOs identified.

Information contained in this enhanced PA report was obtained through:

- Visual inspection of the facility.
- Review of available Army documentation.
- Review of related regulatory agency files at the state and federal levels.
- Interviews with current employees at New Orleans MOT.

GENERAL PROPERTY DESCRIPTION

New Orleans MOT is located at the intersection of the Mississippi River and the Inner Harbor Navigational Canal. Construction of the New Orleans MOT was completed in 1919. In 1922, fire destroyed the wooden wharves and the warehouse. Reconstruction of the facility was completed in 1942. New Orleans MOT is currently the responsibility of the Army with the U.S. Maritime Administration and the Board of Commissioners, Port of New Orleans, the current tenants. New Orleans MOT is located adjacent to a Naval Support Activity (NSA).

The facility can be divided into two major activities: warehousing and shipping and privately owned vehicle (POV) shipment preparation. New



Orleans MOT has had the assignment to ship materials through New Orleans since 1919, although this activity was interrupted to an uncertain extent from 1922 to 1942. Currently a wide range of equipment and material is processed through this facility including:

- Military equipment
- Privately owned vehicles.
- Supplies for Post Exchanges (PXs).
- Ordnance.
- Chemicals and Compressed Gases.

These duties and materials handled have not changed significantly since World War II.

ESOs identified on the property include:

- Underground Storage Tanks (USTs). Three active, one inactive, three former, and three potential tanks were identified. The three former tanks were removed in 1982; one was found to be leaking. The extent of cleanup is unknown. Three tanks were subsequently installed as replacements. The active tanks store gasoline and diesel fuel for vehicles used onsite. Installation of monitoring wells around the known tanks is scheduled. Any remaining contamination from the former leaking tank will be discovered by the groundwater monitoring of these wells. Two potential tanks were identified as a fuel station. The pumps were removed in 1979, but the tanks are believed to have been left in place.
- Transformers. Nineteen transformers at six stations were identified. These units have not been tested for polychlorinated biphenyls (PCBs) and are the operational responsibility of the NSA. The transformers are in good condition and there is no visual evidence of spills in the past.
- Fuel Unloading Area. Gasoline is pumped out of privately-owned vehicles in preparation for shipment. This fuel is stored in an underground storage tank and subsequently reused within the facility.
- Vehicle Wash Rack. A concrete pad was reported to have been used for vehicle washing. The surrounding area is unpaved. Washwater would have seeped into the surrounding soil. There is no information regarding vehicle maintenance on this pad.
- Railroad Tracks. A large railyard formerly covered approximately 320,000 sq ft of the property. Many of the lines have been removed or paved over with asphalt. This area is a source of contamination from spills or petroleum, oil and lubricants (POL) and solvents from train activities during loading/unloading operations.
- Berths 1 to 5. These berths have been used since World War II for general storage and warehousing operations. The variety of



hazardous materials stored currently is quite extensive and includes munitions, compressed gases, corrosives, flammables, and oxidizers. The floor of the facility is concrete with holes drilled to allow discharge directly to the Mississippi River or fill sediment under the berth. The largest container present at the time of the survey was a 55-gal drum. Approximately 2,000 gal of hazardous material was surveyed.

- Asbestos. Transite siding was tentatively identified on Buildings 623 and 624. This material is known to contain asbestos fibers. None of the buildings have been surveyed for asbestos.

The identified ESOs for New Orleans MOT are shown in Figure 3-1.

HUMAN AND ENVIRONMENTAL RECEPTORS

The area surrounding New Orleans MOT is heavily populated with commercial activities along the river. The property is located within a floodplain, although it is protected by a levee. There are wetlands within one mile of the facility. At least seven waterbird nesting colonies are found within this portion of the river.

The significant aquifers in this area range from brackish to saline. The shallow groundwater is less than 10 ft below the surface. All registered wells within 3 miles are drilled to a depth of 700 to 800 ft.

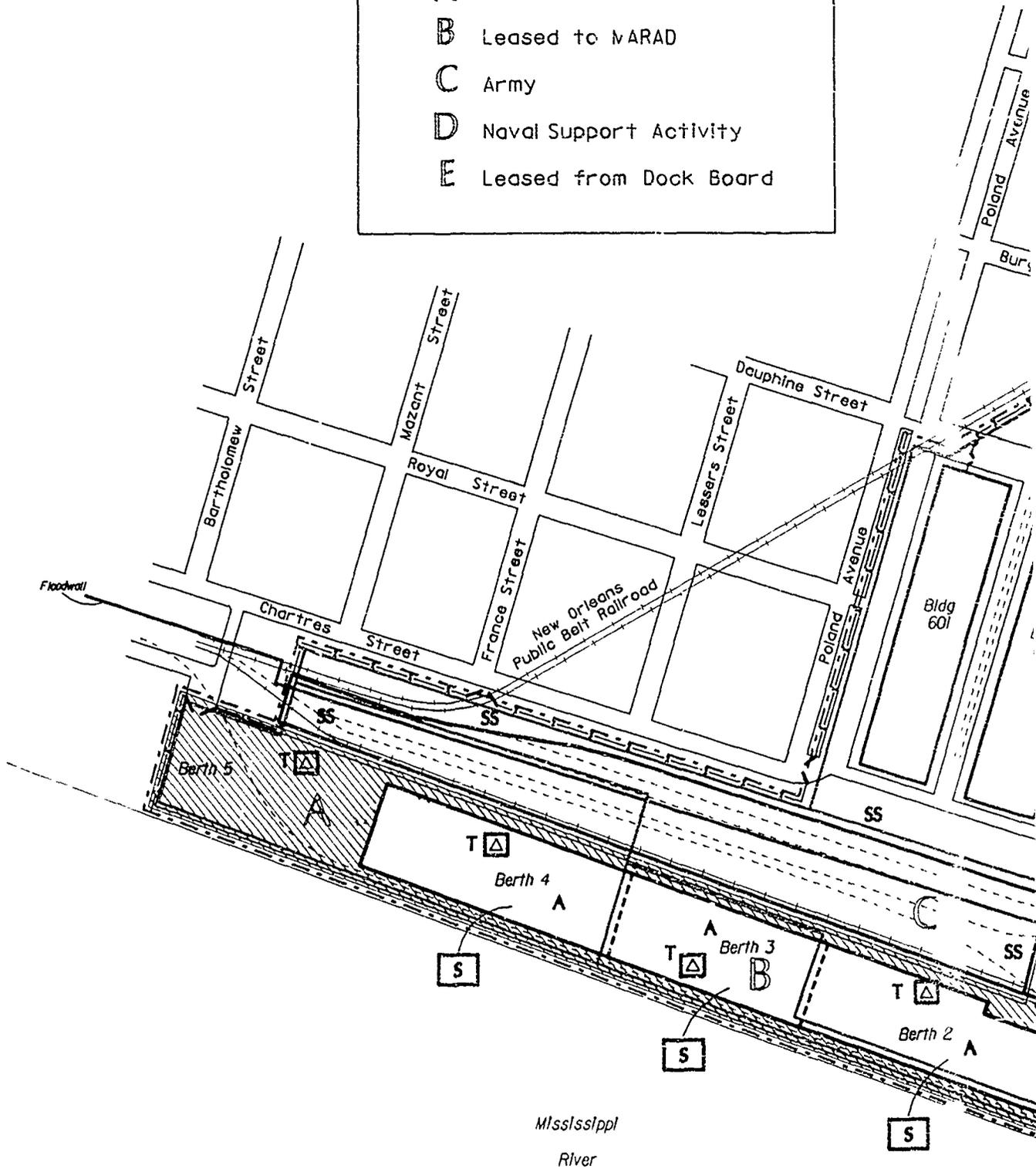
CONCLUSIONS AND RECOMMENDATIONS

No environmental conditions were observed on the property that appear to present an immediate, substantial threat to human health or the environment. The ESOs discussed in the report do have the potential to affect human health or the environment. The recommendations concerning each ESO follow and are summarized in Table ES-1. Recommended sampling locations are shown in Figure ES-1.

- Underground Storage Tanks. No further action is recommended for the identified tanks because monitoring wells are scheduled to be installed. The two potential tank locations should be investigated to ascertain their existence.
- Transformers. All transformers should be tested for PCBs.
- Fuel Unloading Area. The building's trench drains provide the most likely pathway for the migration of contaminants. The sewer sediments should be sampled and analyzed for total petroleum hydrocarbons (TPH).
- Vehicle Wash Rack. The surrounding soil should be sampled because washwater that may have contained oil and grease would have drained to the surrounding ground. The sample collected should be analyzed for TPH and RCRA metals.

SITE LAND USE

- A Leased to Dock Board
- B Leased to MARAD
- C Army
- D Naval Support Activity
- E Leased from Dock Board

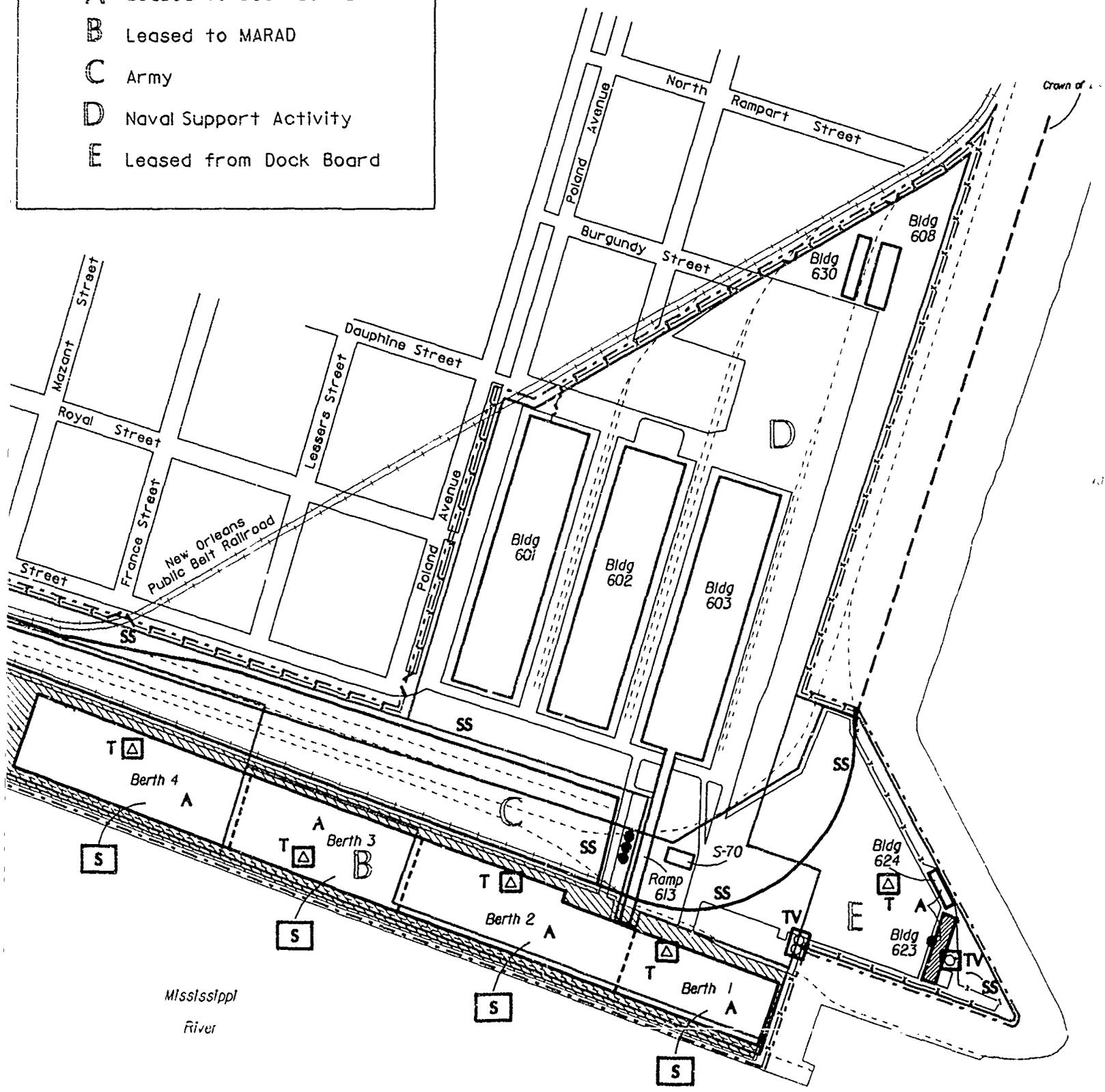


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SITE LAND USE

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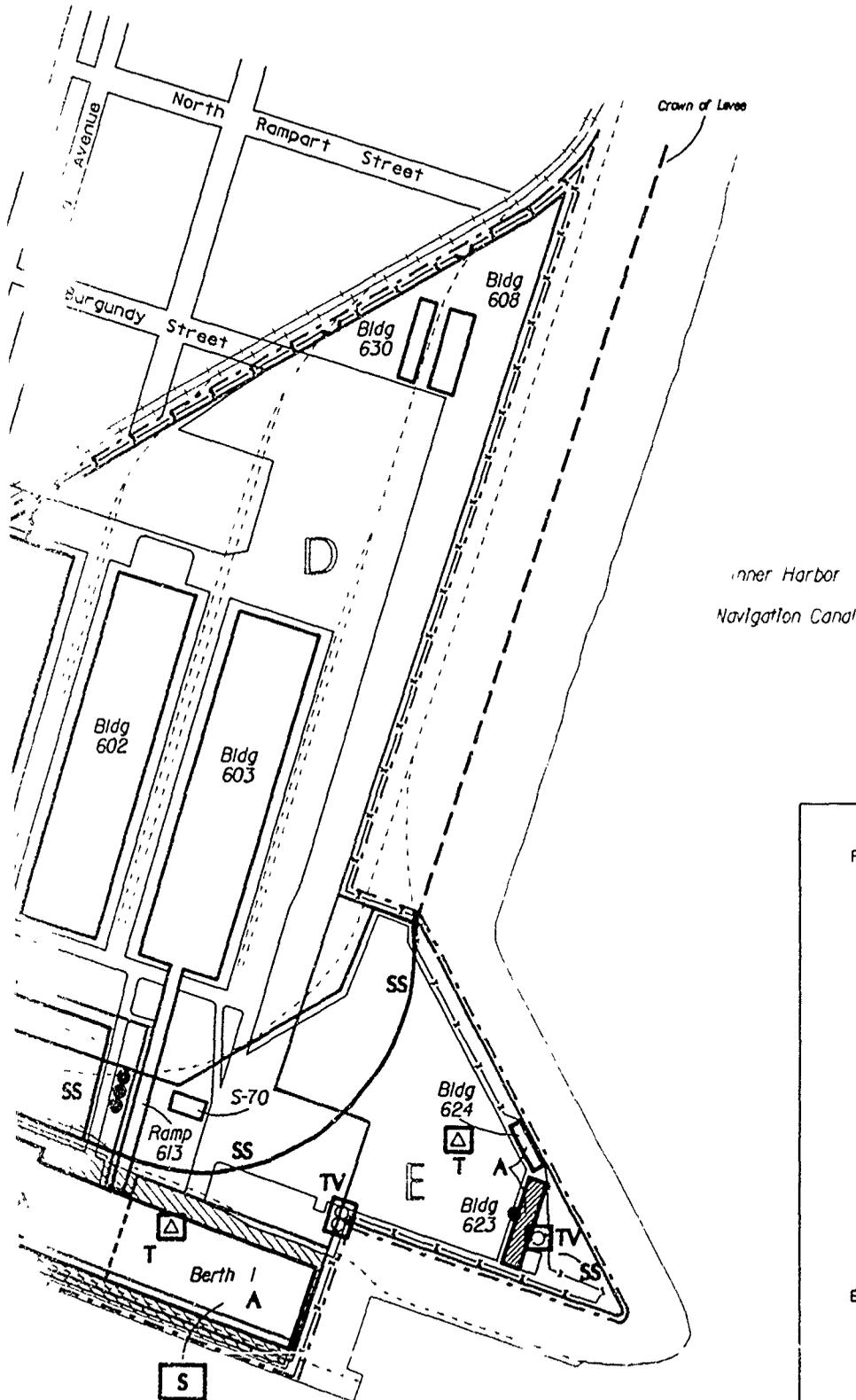
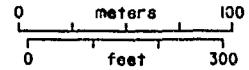


NOTE: Possible asbestos-containing materials present in buildings 623, 624 and berths 1 through 4.

U. S. Army
 Base Closure Preliminary Assessment
 New Orleans
 Military Ocean Terminal
 New Orleans, LA - November 1989

Figure ES-1
 Property Information
 Composite

Compiled in 1989 from various sources
 provided by the U.S. Army Toxic and
 Hazardous Materials Agency



RECOMMENDED SAMPLING METHODS

- T** Transformer Oil
- SS** Surface Soil
- A** Asbestos
- TV** Tank Verification
- S** Sediment (Below Berths 1-4)

NOTE: Asbestos sampling is recommended for all buildings.

ENVIRONMENTALLY SIGNIFICANT OPERATIONS

- Potential Underground Storage Tank
- Underground Storage Tank
- △ Transformer
- ◇ Building 623-Vehicle Defueling
- Vehicle Wash Rack
- ▭ General Storage and Material Hauling
- - - Former Railroad
- Current Railroad

NOTE: Possible asbestos-containing materials present in buildings 623, 624 and berths 1 through 4.



Table ES-1

ESOs Identified at New Orleans MOT and Recommendations for Further Action

ESO	Contaminants of Concern	Recommended Activity	Number of Samples	Location	Sample Type	Analysis
Underground Storage Tanks	Petroleum hydrocarbons	No further action	---	Next to Ramp 613	---	---
Underground Storage Tank	Petroleum hydrocarbons	No further action	---	In front of Building 623	---	---
Potential Underground Storage Tank	Petroleum hydrocarbons	Site Investigation		Next to boat ramp	Tank verification	
Potential Underground Storage Tank	Unknown	Site Investigation		Behind Building 623	Tank verification	
Transformers	PCBs	Site Investigation	1/transformer	Each transformer	Transformer oil	PCBs
Fuel Unloading Area	Petroleum hydrocarbons	Site Investigation	1	Floor drain	Drain sediments	TPH
Vehicle Wash Rack	Petroleum hydrocarbons	Site Investigation	2	Along drainage path	Soil	TPH and RCRA metals
Railroad Tracks	Creosote, ordnance, solvents, chemicals	Site Investigation	10 composite	Distributed through railyard	Soil	TPH, pesticides, and BNAS
Berths 1 - 5	Ordnance, solvents, chemicals	Site Investigation	Approximately 15 composite	Sediments present under drains	Sediment	Priority pollutants
Asbestos	Asbestos	Site Investigation		Buildings 623 and 624 and Berths 1-4	Asbestos survey	Asbestos



- Railroad Tracks. POL, solvents from train activities, and hazardous materials from potential spills during unloading may be present in the soil. Soil samples should be collected where tracks are still present or were in the past. Approximately 40 sampling locations are recommended. These samples should be composited into a total of ten samples and analyzed for TPH, pesticides, and base neutral acid extractable compounds (BNAs) on EPA's priority pollutants list.
- Berths 1 to 5. Drainage holes drilled through the floors of the berths provide the most likely pathway for the migration of contaminants. These holes drain to the Mississippi River or fill sediment under the berths. Although there are no spills on record, it is possible that spills occurred in the past. The fill sediment should be sampled under the drains. The samples should be analyzed for priority pollutants, given the uncertainty of the chemicals which may have been spilled.
- Asbestos. An asbestos survey is recommended for the entire facility because none has been performed to date.

Section 1

Introduction



SECTION 1

INTRODUCTION

1.1 BACKGROUND

Roy F. Weston, Inc. (WESTON) has been retained by the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) to conduct waste site characterizations of specific Department of Army properties under the authority of Contract DAAA15-88-D-0007, Task Order 2. This work is being performed within the scope of the U.S. Army Installation Restoration Program (IRP). As part of this contract, WESTON has also been asked to prepare enhanced preliminary assessment (PA) reports of selected properties destined to be included as part of the Base Closure Program. The PA reports are to present WESTON's findings concerning the environmental conditions of the properties and to provide recommendations for further action. These recommendations will serve as a guide to the U.S. Army in prioritizing the activities required to report these properties as excess.

This report discusses the enhanced preliminary assessment of the New Orleans Military Ocean Terminal (New Orleans MOT). A site visit was performed on 24 October 1989.

1.2 OBJECTIVES

This enhanced PA report was prepared using existing information obtained from property records and from current employees. No sampling activities were completed as part of this assessment.

The overall objectives of the PA were as follows:

- Identify and characterize environmentally significant operations (ESOs) associated with the historical and current use of the New Orleans MOT property.
- Identify and characterize possible impacts of the ESOs on the surrounding environment.
- Identify additional environmental actions, if any, that should be implemented for the ESOs identified.

Certain issues have been excluded from consideration as ESOs for the purposes of this report. First, painted surfaces will not be identified as ESOs solely because there is a potential for their containing lead. Second, drinking water will not be designated as an ESO solely because there is a potential for lead contamination due to piping solder or piping materials. Third, the presence of radon gas in buildings will not be considered as an ESO. A radon survey of all buildings will be performed utilizing the guidelines set forth in the Army Radon Program.



1.3 PROCEDURES

The information contained in this enhanced PA report is based on the following data-gathering activities:

- Visual inspection of the facility.
- Review of available Army documentation.
- Review of U.S. Environmental Protection Agency Region VI files.
- Contact with the Louisiana Department of Environmental Quality.
- Interviews with current employees at New Orleans MOT.

No sampling or analysis was conducted as part of the investigation.

1.4 REPORT FORMAT

This enhanced PA report presents an evaluation of the relevant data for the New Orleans MOT site.

Section 2 describes the property and the surrounding environment and land uses. Section 3 identifies and characterizes all ESOs related to known and suspected releases to the environment. Section 4 discusses the potential impact of the ESOs on the local environment and human receptors. Section 5 summarizes the findings and conclusions, discusses the quality and reliability of the supporting information, identifies areas requiring further action, and suggests how such actions may be accomplished. Section 6 lists the pertinent materials reviewed and the agencies that were contacted. Photographs taken during the site visit are provided in Section 7. Supporting documentation is provided in Appendices A through F.

References are presented throughout this report, where appropriate, by means of a letter and number designation in brackets, as follows: I refers to Direct Interviews; T refers to telephone conversations; and R refers to Reports or other written documents. The number following the letter refers to the specific item in the respective lists provided in Section 6.

Section 2

Property Characterization



SECTION 2

PROPERTY CHARACTERIZATION

2.1 GENERAL PROPERTY INFORMATION

New Orleans MOT is located on the northwest intersection of the Mississippi River and the Inner Harbor Navigational Canal (Mississippi River-Gulf Outlet Canal) within the corporate limits of New Orleans, Louisiana. This installation is also known as the New Orleans Army Base and as the Gulf Outport. An area map and a property information summary are shown in Figure 2-1 and Table 2-1, respectively.

New Orleans MOT is comprised of property operated by the Army, property used by the U.S. Maritime Administration (MARAD) per an Interservice Support Agreement (ISSA), property leased to the Board of Commissioners, Port of New Orleans (Dock Board), and property leased from the Dock Board. This land belongs to the city with all improvements belonging to the Army. Contiguous to the facility is the Naval Support Activity (NSA). A site map of the facility with property divisions is shown in Figure 2-2.

2.2 DESCRIPTION OF FACILITIES

2.2.1 GENERAL PROPERTY DESCRIPTION AND HISTORY

Construction of New Orleans MOT was completed in 1919. On 15 September 1922 fire destroyed the wooden wharves and wharfhouse. Reconstruction of the facility continued in three stages until completion of Berths 1 through 4 in 1942. Berth 5 was added in 1945. Berths 1 through 4 are enclosed and Berth 5 is open (photos 1, 2) [R-4].

All of the berths are built on timber pile foundations and consist of reinforced concrete and structural steel above the water level. The structures cover a total of approximately 499,711 sq ft (11.47 acres). Transit sheds cover Berths 1 through 4 for a total enclosed area of approximately 281,848 sq ft. Berths 1, 2 and part of 3 are used by New Orleans MOT. The rest of Berth 3 and the wharf space in front of Berths 1, 2, and 3 are leased to MARAD. Berths 4 and 5 and the remaining wharf space is leased to the Dock Board. Located on the NSA property are three warehouses that are used to store most of the material processed through New Orleans MOT [I-1; R-4].

The facility can be divided into two major activities: warehousing and shipping, and privately-owned vehicle (POV) shipment preparation. New Orleans MOT has had the assignment of shipping materials through New

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Base Closure Preliminary Assessment
**New Orleans Military
Ocean Terminal**
New Orleans, Louisiana — November 1989

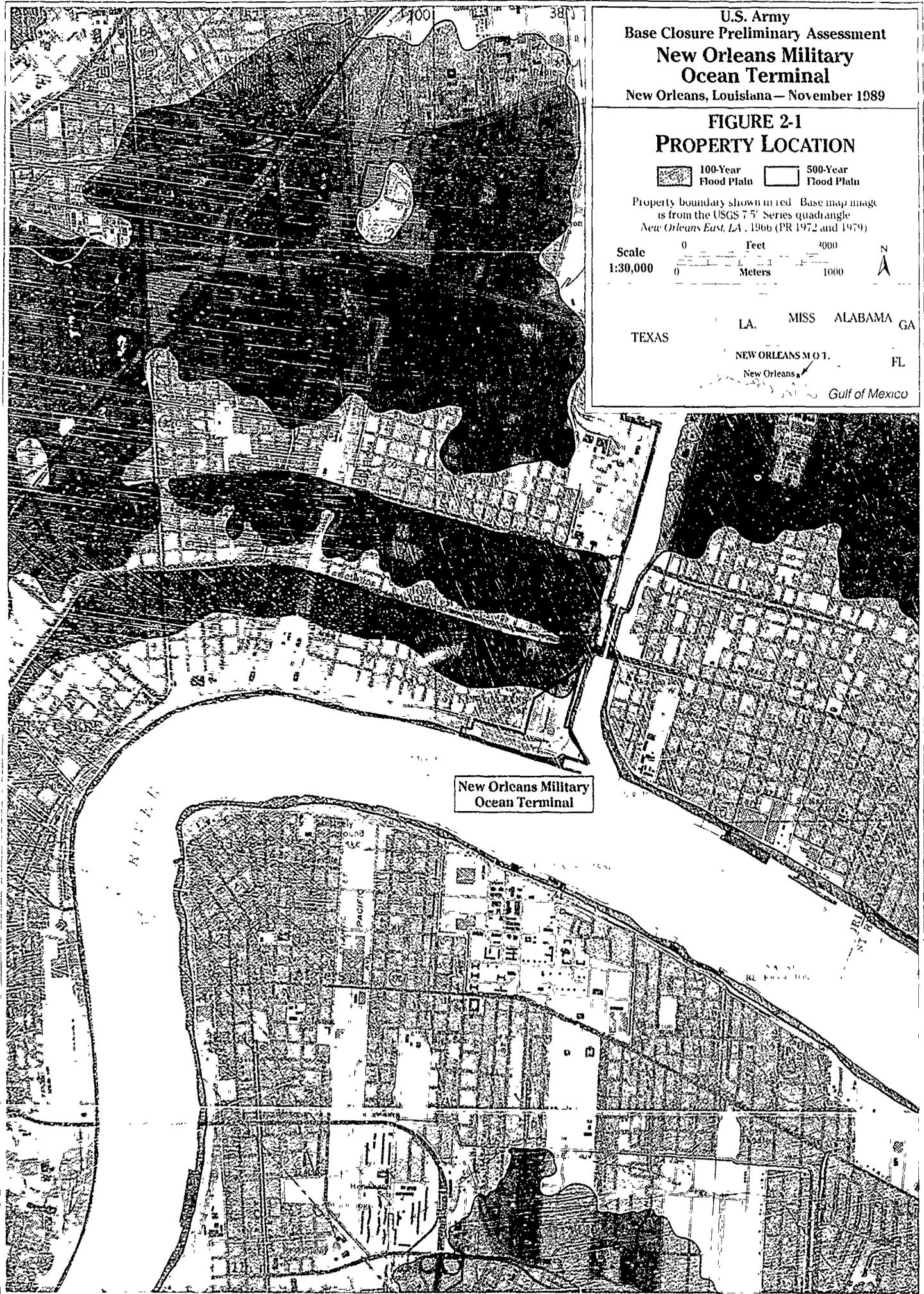
**FIGURE 2-1
PROPERTY LOCATION**

 100-Year Flood Plain  500-Year Flood Plain

Property boundary shown in red. Base map image is from the USGS 7.5' Series quadrangle *New Orleans East, LA*, 1966 (PR 1972 and 1979).

Scale
1:30,000 0 Feet 3000 N
 0 Meters 1000

TEXAS LA. MISS ALABAMA GA
NEW ORLEANS M.O.T. FL
New Orleans
Gulf of Mexico



New Orleans Military
Ocean Terminal



Table 2-1

Property Information Summary

Name: New Orleans Military Ocean Terminal

Facility Address: Military Traffic Management Command
Gulf Outport
4400 Dauphine Street
New Orleans, LA 70146-6000

FFIS: LA-213522703

Property Number: 22585

Command: Military Traffic Management Command

County: Orleans Parish

Location: At the northwest intersection of the Mississippi River and the Inner Harbor Navigation Canal (Mississippi River-Gulf Outlet Canal) within the corporate limits of New Orleans, Louisiana.

Installation Coordinates: 29°57'N; 90°01'W

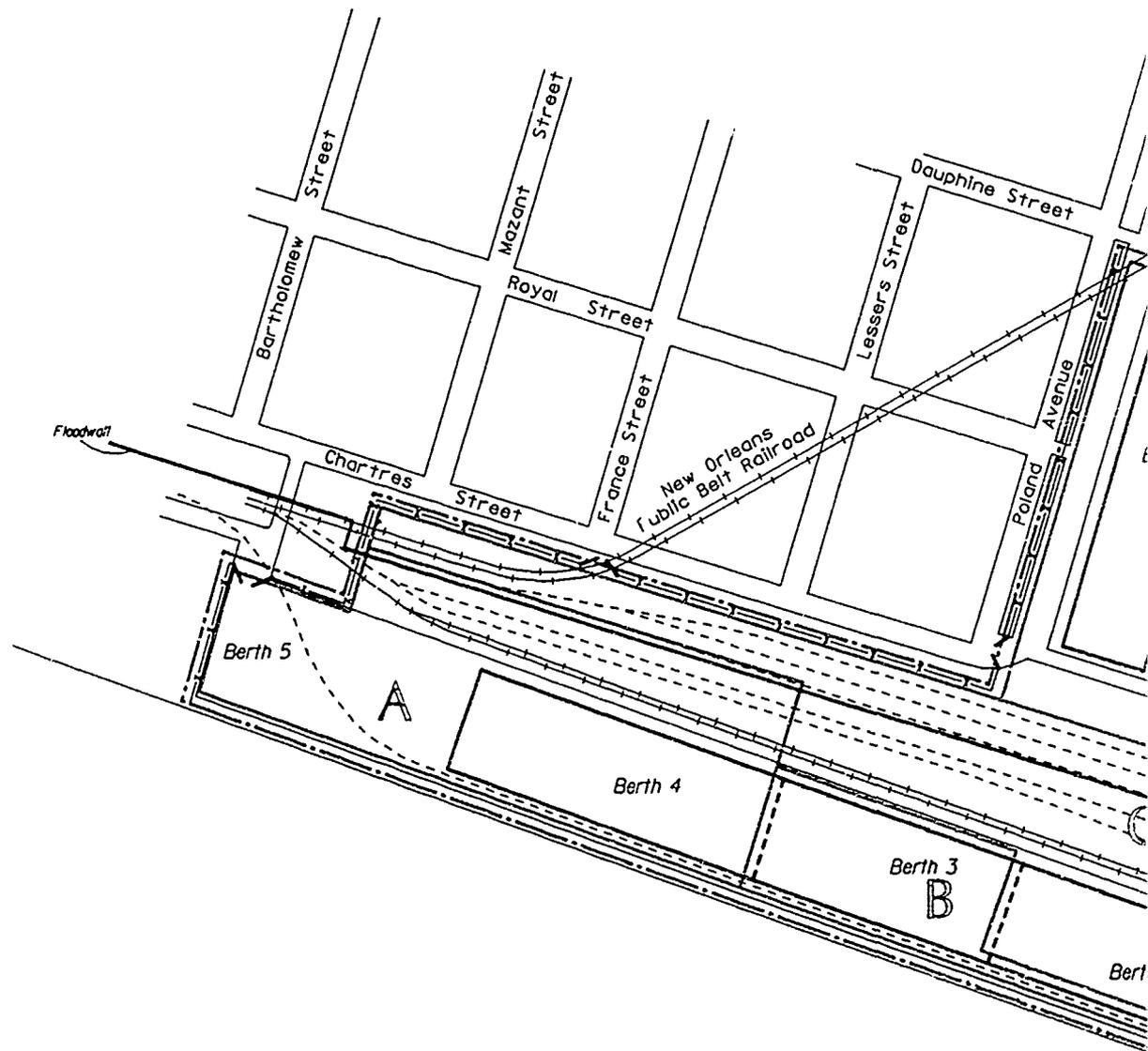
Size: 14.99 acres

Mission: To provide common user terminal services for Department of Defense (DoD) sponsored cargo through Gulf Coast ports from Brownsville, Texas, to Cape Sable, Florida. Operate privately owned vehicle (POV) Processing Center, Granite City, Illinois

Operations: Current operations include warehouse and shipping activities and POV vehicle pre-shipment maintenance.

SITE LAND USE

- A Leased to Dock Board
- B Leased to MARAD
- C Army
- D Naval Support Activity
- E Leased from Dock Board



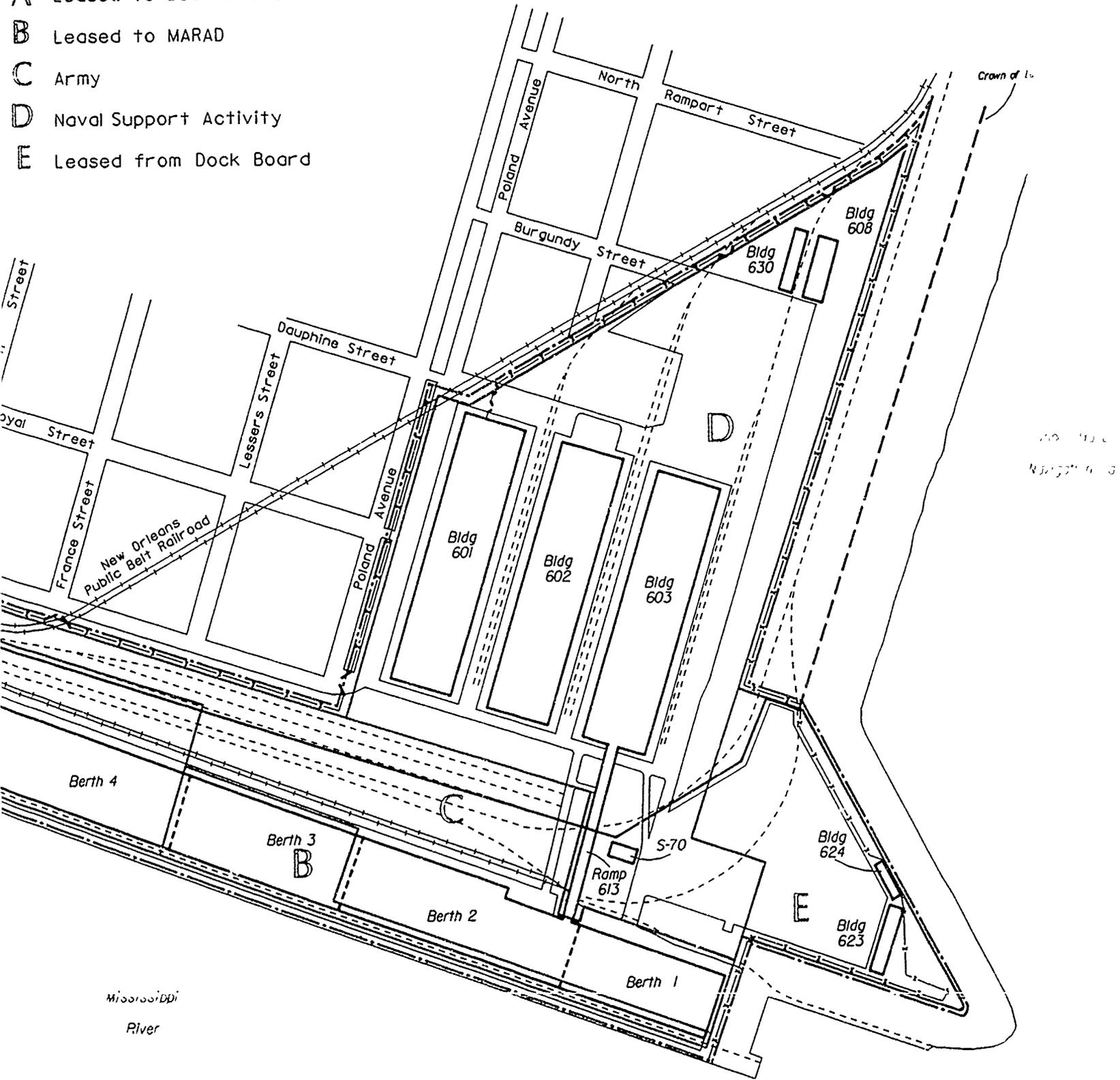
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E LAND USE

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- E Leased from Dock Board

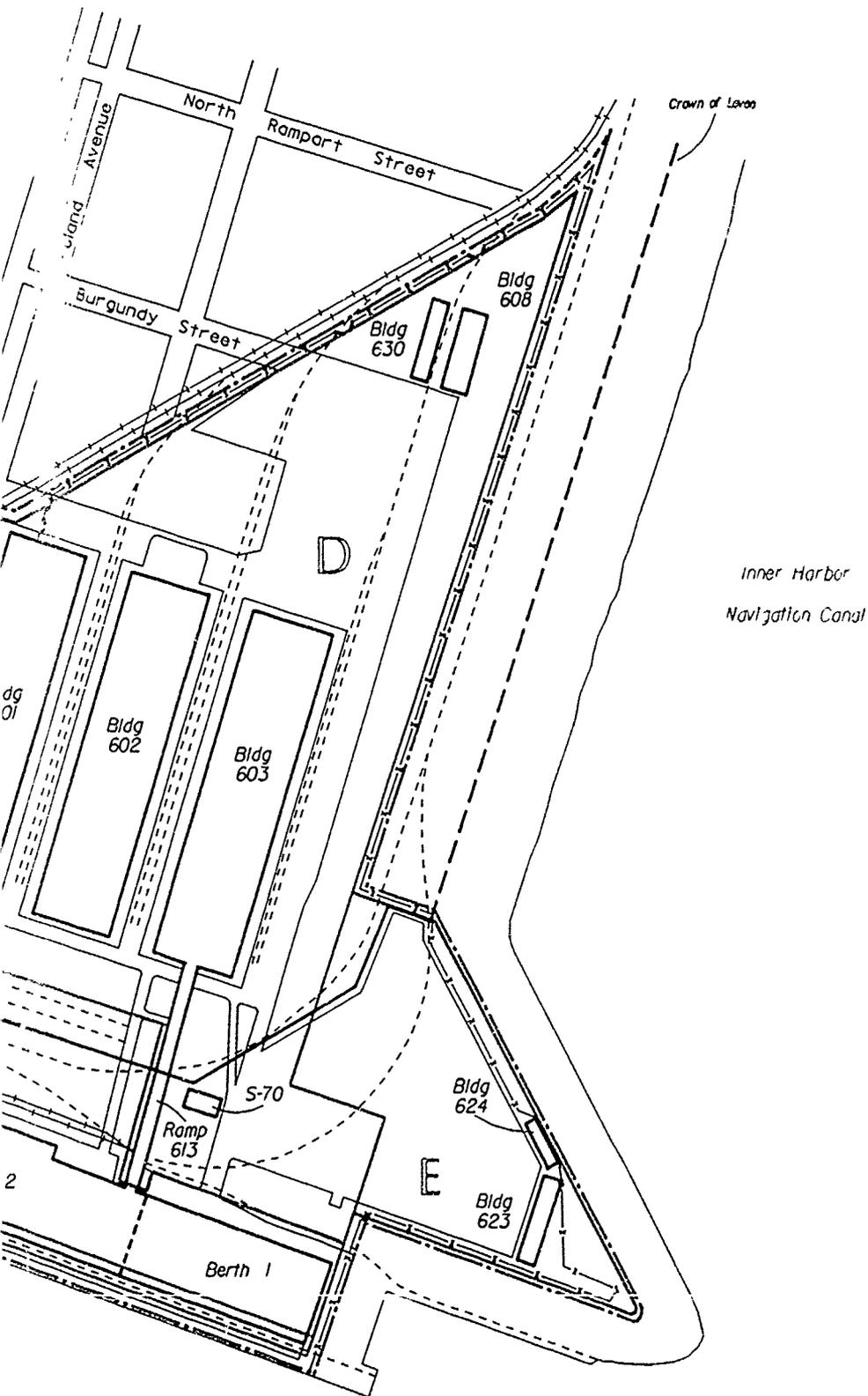
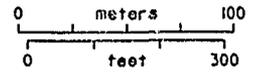


---- Former Railroad

U. S. Army
Base Closure Preliminary Assessment
New Orleans
Military Ocean Terminal
New Orleans, LA - November 1989

Figure 2-2
Site Plan With
Land Use

Compiled in 1989 from various sources
provided by the U.S. Army Toxic and
Hazardous Materials Agency



airroad



Orleans since 1919, although this activity was interrupted to an uncertain extent from 1922 to 1942. Currently a wide range of equipment and material is processed through this facility including:

- Military equipment.
- POVs.
- Supplies for post exchanges (PXs).
- Ordnance.
- Chemicals and compressed gases.

The equipment and materials handled have not changed significantly since World War II. A more detailed breakdown of equipment and materials handled is provided in Appendix A. A detailed discussion of the identified ESOs as they relate to hazardous materials handled is presented in Section 3.

Also present at this installation is a POV processing center and shipping facility. All fuel is removed from the vehicles prior to shipment. Outdoor POV storage consists of approximately 9.04 acres leased from the Dock Board and NSA.

2.2.2. GENERATION AND DISPOSAL OF WASTES

Solid waste is stored in roll-off containers prior to its disposal by a private contractor. The current contractor is River Parish Disposal, Inc. There is no generation or disposal of hazardous waste at the facility. Sanitary wastewater is discharged to the city sanitary sewer system.

2.3 PERMITTING STATUS

The following agencies were contacted regarding the status of permits for New Orleans MOT [T-1; R-8, R-9]:

- EPA Region VI - no permits.
- Louisiana Department of Environmental Quality (DEQ), Office of Air Quality and Nuclear Energy - no permits.
- Louisiana DEQ, Office of Water Resources - no permits.
- Louisiana DEQ, Office of Solid and Hazardous Waste - no permits.

The facility's EPA Hazardous Waste Generator I.D. Number is LA5-21-359-9314 (Appendix B). However, the facility has identified itself as a non-generator of hazardous waste. There is no record of any hazardous waste manifested [T-1]. New Orleans MOT also submitted an Underground Storage Tank Registration, listing four tanks (Appendix C). The status of these tanks will be discussed in greater detail in Subsections 3.1 and 3.2.

2.4 GENERAL ENVIRONMENTAL INFORMATION

2.4.1 DEMOGRAPHICS AND LAND USE

New Orleans MOT is located on the Mississippi River in New Orleans. The surrounding land is mainly residential with some commercial activity. Other shipping and warehousing operations are located along the river.

No nearby contamination sources were identified in the Comprehensive Environmental Response, Compensation Liability Inventory System (CERCLIS) listing for New Orleans (Appendix D). Other than local port operations along the river, no likely sources were identified either during personnel interviews or the site survey [I-1, I-2].

2.4.2 CLIMATE

The climate of New Orleans is humid and semi-tropical during a large portion of the year. New Orleans is virtually surrounded by water. The water bodies include the Gulf of Mexico, Lake Pontchartrain, Lake Borgne, and numerous bayous, lakes, and marshy delta land. These water bodies have a significant influence on the climate. New Orleans is south of the usual track of winter storms, but occasionally a storm center will form in the Gulf of Mexico.

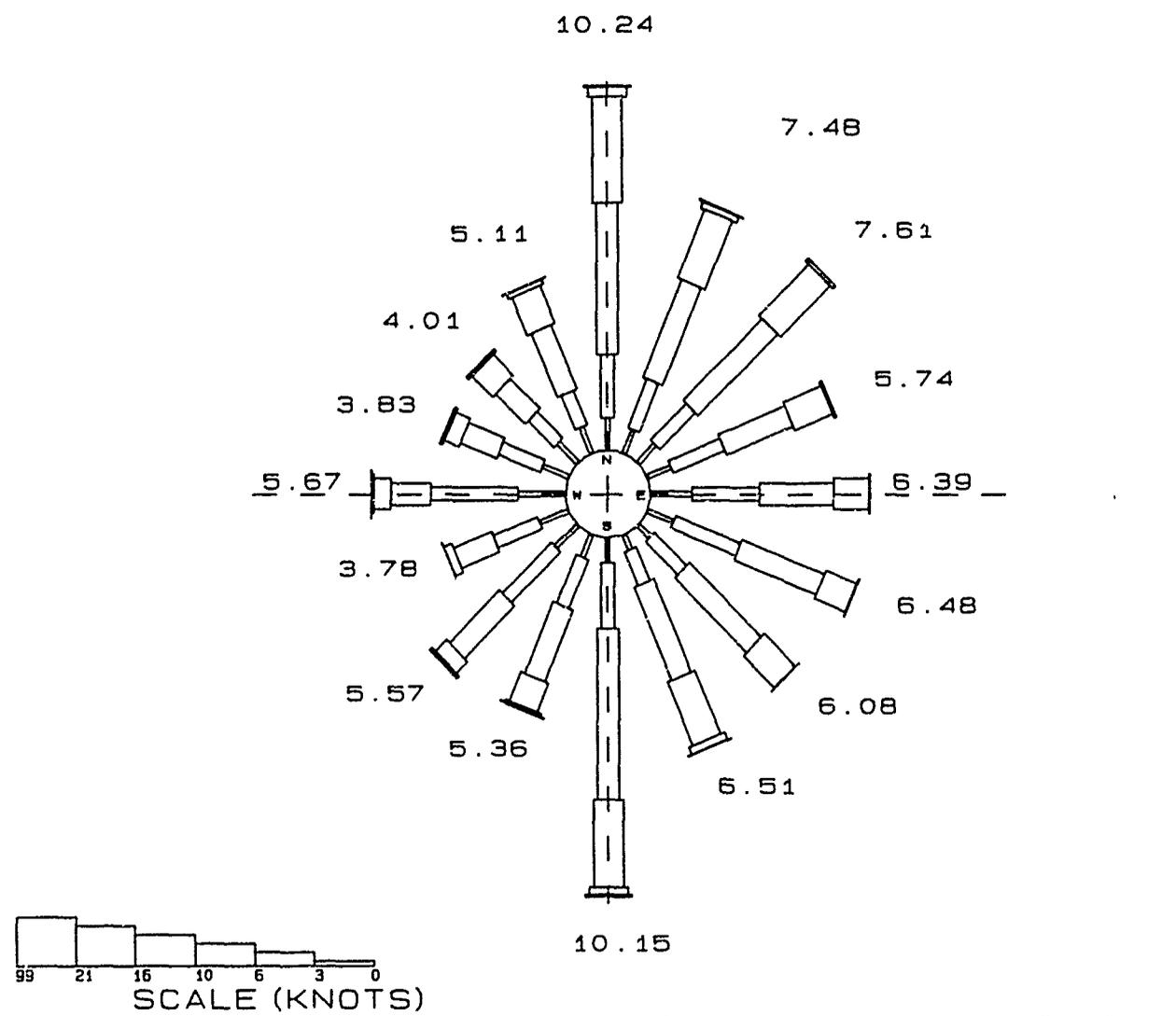
Figure 2-3 shows wind conditions for New Orleans for the year 1988. The wind direction at New Orleans is fairly evenly distributed. North winds occur most frequently with a secondary maximum of south winds. Summer winds have a prevailing southerly direction providing moisture favorable for the formation of afternoon thunderstorms. West to northerly winds cause periods of hot dry weather during the summer.

Precipitation is fairly evenly distributed throughout the year. A definite rainy period occurs from December to March. Summer precipitation occurs mainly from frequently heavy showers and thundershowers. July (6.73 in.), August (6.02 in.) and September (5.87 in.) are the wettest months. October is the driest month with normal precipitation of 2.66 in. The maximum monthly precipitation recorded was 25.11 in. during October 1937. Snowfall is rare with a annual mean value of 0.1 in.

Temperatures are moderated by the surrounding water bodies. July is the hottest month with a normal monthly temperature of 82.1°F and a daily maximum of 90.7°F and a daily minimum of 73.5°F. The daily maximum temperature during June (89.5°F), July (90.7°F), and August (90.2°F) show little variation. January is the coldest month with a normal monthly temperature of 52.4°F, and a daily maximum of 61.8°F and daily minimum of 43.0°F.

Severe thunderstorms with damaging winds and hail are infrequent. Thunderstorms with heavy rains are common. Thunderstorms occur on an average of 68 days per year. Tornadoes are rare, but water spouts occur quite often on nearby lakes. Hurricanes and tropical storms do move close enough to New Orleans to affect the area. Tropical storms can produce high winds, heavy rain, flooding, and tornadoes. Severe damage can occur during tropical storms. Although these storms have occurred in the past, the frequency of occurrence is quite low [R-10, R-11].

NEW ORLEANS, LOUISIANA
 YEAR: 1988
 CALMS INCLUDED



	WIND SPEED (KNOTS)						PERCENT OCCURRENCE						
	0-3	3-6	6-10	10-16	16-21	>21	0-3	3-6	6-10	10-16	16-21	>21	
N	0.80	1.81	4.26	2.97	0.27	0.03	S	0.71	1.87	4.83	2.48	0.19	0.07
NNE	0.71	1.50	2.97	2.08	0.17	0.03	SSW	0.70	1.48	2.17	0.89	0.09	0.02
NE	0.72	1.47	3.28	2.04	0.10	0.00	SW	0.89	2.03	2.11	0.46	0.09	0.00
ENE	0.73	1.64	2.11	1.20	0.07	0.00	WSW	0.91	1.39	1.22	0.25	0.01	0.00
E	1.21	1.97	2.16	1.01	0.03	0.00	W	1.38	2.55	1.18	0.49	0.08	0.01
ESE	0.82	2.06	2.80	0.98	0.02	0.00	WNW	0.81	1.32	1.15	0.46	0.09	0.00
SE	0.48	1.32	2.97	1.27	0.02	0.00	NW	0.79	1.07	1.21	0.84	0.10	0.00
SSE	0.46	1.04	2.82	1.96	0.22	0.01	NNW	0.79	1.05	1.96	1.15	0.15	0.01

FIGURE 2-3 WIND ROSE

2.4.3 SURFACE WATER AND PHYSIOGRAPHY

New Orleans MOT lies below the mean highwater of the Mississippi River. The facility is located within a Zone B area, "areas protected by levees from the base flood" [R-12]. The levee has a crest elevation of 24 ft above the Mean Gulf Level (MGL). The river serves as a public drinking water source and is a vital corridor of industrial and commercial activity. Two water treatment plants pump water from the Mississippi River to serve the New Orleans metropolitan area. Both water intakes are located upriver from New Orleans MOT [T-2].

2.4.4 SOILS

New Orleans is underlain by thick sequences of unconsolidated deposits of sand, silt, clay, and gravel. Subsurface materials in the New Orleans area consist of recent flood plain and deltaic alluvial deposits associated with river deposits and marshlands. Zones of organic clay characteristic of backswamp material are mixed with these sediments. Loess, a wind-derived sediment composed predominantly of silt-sized grains, may also be present in some areas. Soil material generally consists of silty clays interrupted by dense clay lenses that impede the downward migration of surface water. These materials are deposited in a structural trough known as the Mississippi embayment that plunges gulfward. The resulting wedge of sediments thickens seaward with a prevailing dip to the south [R-3].

The soil consists of lean to fat clays, silts, and fine sands, and contain beds of organic materials and peat bogs up to 10 feet thick. All soils are saturated. Soils vary in makeup from almost nonplastic silts to highly plastic clays, and they contain varying amounts of sand and organic debris [R-4].

2.4.5 GROUNDWATER AND HYDROLOGY

In the New Orleans area, usable quantities of fresh groundwater are difficult to encounter at any depth below the ground surface. The groundwater at the facility was reported as brackish and is believed to be generally 8 to 10 ft below ground. This shallow aquifer is expected to flow toward the river when the river is in low stage and away when the river is high. The shallow aquifers, less than 150 ft, that may exist have low yields. These water-bearing deposits include point bar and distributary channel deposits associated with the Mississippi River [R-2, R-3].

There are approximately 10 registered wells within 3 miles of the facility in the area north of the Mississippi River and west of the Gulf Outlet Canal (Appendix E). The nearest well is located within 1,000 ft of the facility. This well is expected to be brackish. All wells are drilled to a depth of 700 to 800 ft. None of these wells are used as a drinking water source [R-1]. The aquifer pumped in each case is the Gonzales-New Orleans Aquifer. As of 1981 the saltwater-freshwater interface is one mile north of the facility. The other major deep aquifers are also brackish or saline in this area [R-2].

2.4.6 FLORA AND FAUNA

The majority of New Orleans MOT is paved. On the unpaved areas, grasses, some shrubs and small trees are present. There are no permanent examples of fauna other than rodents and birds. A list of fauna found in New Orleans is provided in Appendix F.

2.4.7 SENSITIVE ENVIRONMENTS

There is no evidence of sensitive wildlife within 3 miles of the facility. The pallid sturgeon, a species proposed for listing, and the salt marsh top minnow, a rare fish, have been detected in the Mississippi River, south of New Orleans. There are wetlands within one mile of the facility. There are at least seven waterbird nesting colonies in this portion of the river and also in the deltaic marshes (Appendix F).

Section 3

Environmentally Significant Operations



SECTION 3

ENVIRONMENTALLY SIGNIFICANT OPERATIONS

The objective of this section is to document areas where hazardous materials are managed and to identify known or potential releases of these materials into the environment and their likely migration pathways. The locations of all identified ESOs are depicted in Figure 3-1.

3.1 UNDERGROUND STORAGE TANKS (RAMP 613)

3.1.1 DESCRIPTION

Three 1,000-gal, single-wall fiberglass tanks are located adjacent to Ramp 613 (photo 3). The tanks are equipped with steel piping. Each tank was installed in 1982 to replace similar steel tanks that had been in place since the 1940s. Diesel fuel for vehicles is stored in Tank 601-1. Tank 601-2 was previously used to store waste fuel. It is currently inactive and reportedly empty. Gasoline is stored in Tank 601-3. These tanks are registered with the state [R-5]. Four monitoring wells for leak detection are planned to be installed before January 1990 [I-2]. The ground above these tanks is paved.

3.1.2 KNOWN AND SUSPECTED RELEASES

One of the three tanks replaced in 1982 was found to be leaking [R-5]. The specific tank that leaked and the extent of cleanup that occurred is unknown. The current tanks were leak tested at installation; no leaks were detected.

3.2 UNDERGROUND STORAGE TANKS (BUILDING 623)

3.2.1 DESCRIPTION

One 1,000-gal steel tank with steel piping is located west of Building 623. This tank, installed in the 1940s, is used to store fuel mixtures removed from vehicles during pre-shipment processing and is registered with the state [I-2; R-5]. This fuel is reused to operate onsite vehicles. Three monitoring wells for leak detection are planned for installation before January 1990. The ground above this tank is paved.

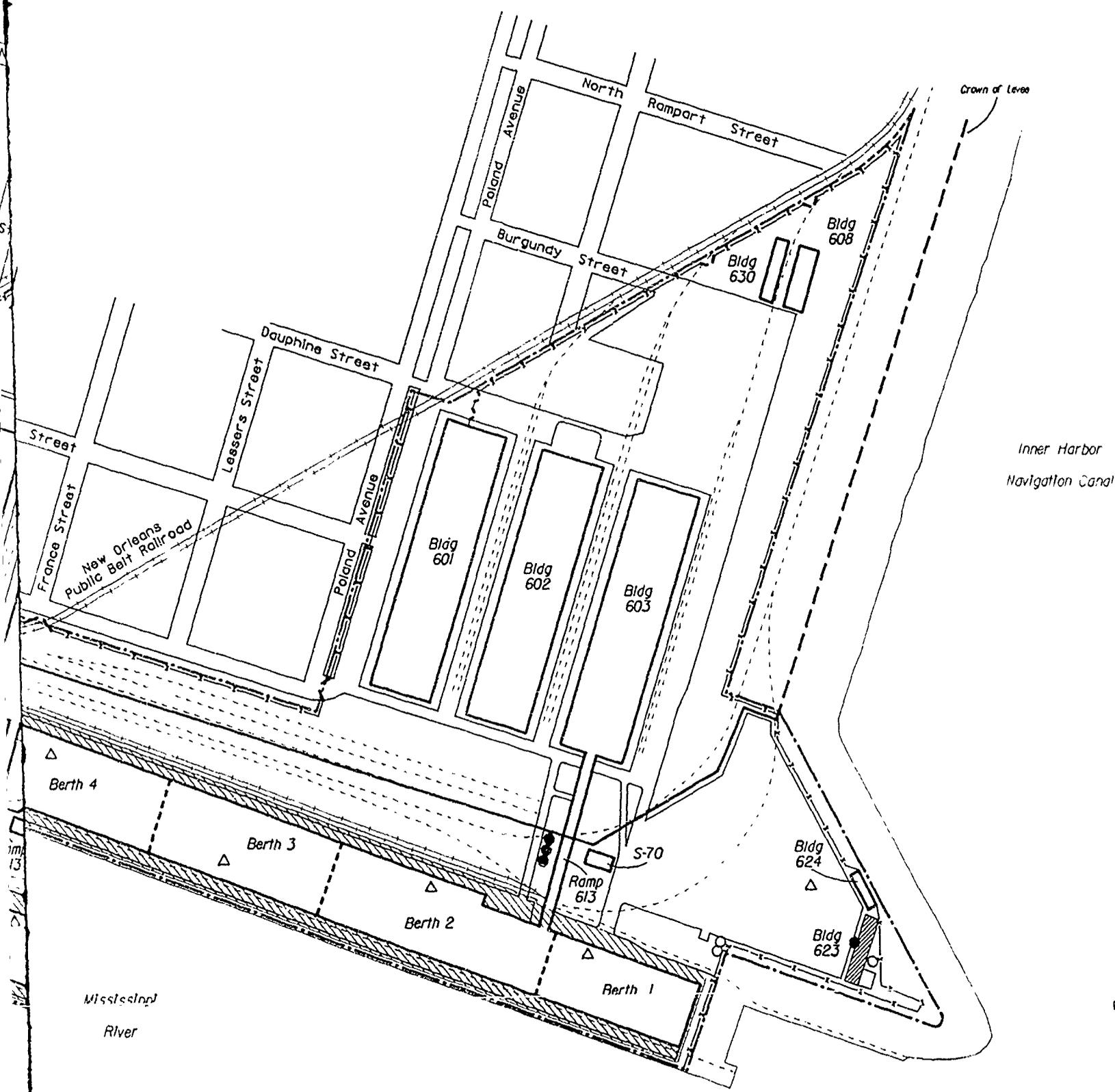
3.2.2 KNOWN AND SUSPECTED RELEASES

This tank was leak tested in 1988 and no leaks were detected.

3.3 POTENTIAL UNDERGROUND STORAGE TANKS (BOAT RAMP)

3.3.1 DESCRIPTION

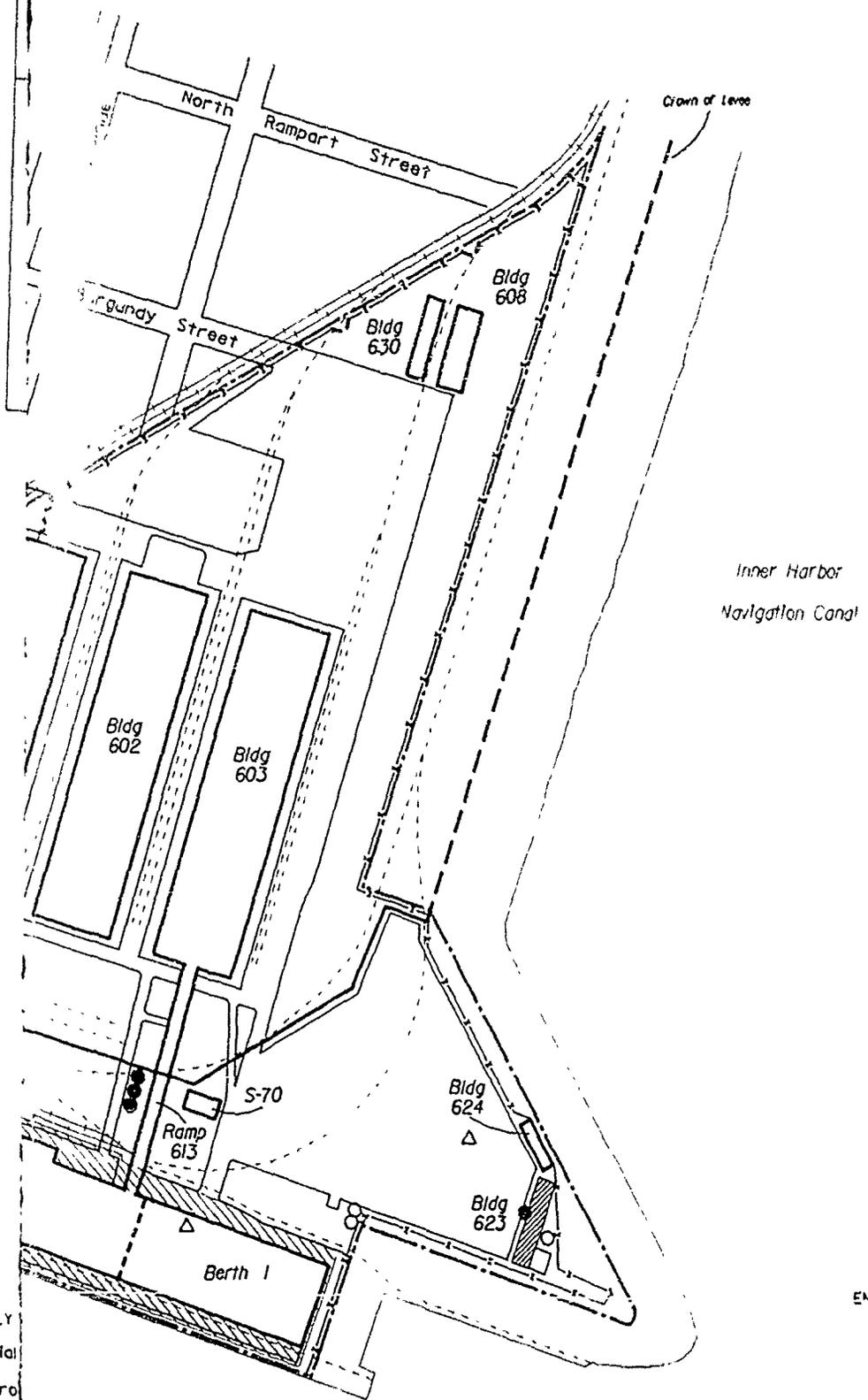
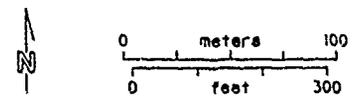
In the past, a fuel pump area was located adjacent to the boat ramp. The gasoline pumps were removed in 1979. It is believed that two tanks were



NOTE: Possible asbestos-containing materials present in buildings 623, 624 and berths 1 through 4.

Figure 3-1
Environmentally Significant
Operations

Compiled in 1989 from various sources
 provided by the U.S. Army Toxic and
 Hazardous Materials Agency



- ENVIRONMENTALLY SIGNIFICANT OPERATIONS**
- Potential Underground Storage Tank
 - Underground Storage Tank
 - △ Transformer
 - ◊ Building 623-Vehicle Defueling
 - Vehicle Wash Rack
 - ▣ General Storage and Material Hauling
 - - - Former Railroad
 - Current Railroad

NOTE: Possible asbestos-containing materials present in buildings 623, 624 and berths 1 through 4.

not removed at that time and remain in the ground. The sizes of the tanks, if present, are not known [I-2; R-5]. This area is paved.

3.3.2 KNOWN AND SUSPECTED RELEASES

There is no record of any testing done at the time the fuel pumps were removed.

3.4 POTENTIAL UNDERGROUND STORAGE TANK

3.4.1 DESCRIPTION

During the site survey, 1/4-in. steel piping was discovered that led underground behind Building 623, which could indicate a potential tank. However, there is no record of a tank in this location.

3.4.2 KNOWN AND SUSPECTED RELEASES

There is no evidence of vegetation stress in the area.

3.5 TRANSFORMERS

3.5.1 DESCRIPTION

Six transformer stations were identified during the site survey. All 19 transformers appeared to be in good condition with only slight corrosion visible (photo 4). None of the transformers has been tested for PCBs [I-2].

3.5.2 KNOWN AND SUSPECTED RELEASES

There are no visible leaks or stains near any of the transformer stations. A potential release from one of the transformers in the berths would affect either the Mississippi River or the fill under the berths. A potential release from the station on the parking lot would likely seep into the ground through cracks in the asphalt and perhaps to the Gulf Outlet Canal through the storm sewer.

3.6 FUEL UNLOADING AREA

3.6.1 DESCRIPTION

In Building 623 (photo 5), a small air-operated pump is used to remove fuel from POVs prior to shipment [I-2]. This mixed fuel is subsequently stored in an underground storage tank (see Subsection 3.2) and used onsite to operate vehicles. Building 623 has a concrete floor with a trench drain in the area. These drains reportedly are connected to the city storm sewer [I-1, I-2].

3.6.2 KNOWN AND SUSPECTED RELEASES

There is no evidence of releases in the area. The floor is clean and the area is well maintained.

3.7 VEHICLE WASH RACK

3.7.1 DESCRIPTION

Prior to 1987, vehicles were washed on a concrete pad behind Building 623 [I-2]. Vehicles have not been washed here since before 1987. There are no drains in the area. The area around the pad is unpaved. There is no information on whether any other maintenance activities, including engine washing, occurred here.

3.7.2 KNOWN AND SUSPECTED RELEASES

Wash water would have runoff to the surrounding ground. There is no evidence of vegetation stress nor visible stains in this area.

3.8 RAILROAD TRACKS

3.8.1. DESCRIPTION

In the past, this facility made extensive use of rail lines to transport materials. Many of the tracks present in 1963 have since been removed or covered by pavement. Rail lines have been used to transport ordnance, chemicals, and other hazardous materials. An extensive rail yard was present behind the berths. In the past, these tracks covered approximately 320,000 sq ft.

3.8.2 SUSPECTED AND KNOWN RELEASES

There is no record of any spills from the unloading or railroad operations [I-1; T-3]. Since spills due to unloading operations are not uncommon, some chemical releases could have occurred. Any contamination probably would have affected the soil and shallow groundwater.

3.9 BERTHS 1 TO 5

3.9.1 DESCRIPTION

These berths have been used since World War II for general storage and warehousing operations. The variety of hazardous materials currently stored is quite extensive and includes munitions, compressed gases, corrosives, flammables, and oxidizers (photos 6, 7, 8). The floor of the facility is concrete with holes drilled to allow discharge directly to the Mississippi River or the fill under the berths. These holes were drilled to permit drainage flow to low spots. The largest container present at the time of the survey was a 55-gal drum. Approximately 2,000 gal of hazardous material was surveyed, based on a drum count. Incompatible materials are not segregated.

3.9.2 SUSPECTED AND KNOWN RELEASES

There is no record of any spills from the unloading or warehouse operations [I-1, I-4; T-3]. Some chemical releases could have occurred because spills due to unloading operations are not uncommon. Any spill that was not cleaned up would most likely have drained to the Mississippi River or to the fill under the berths.



3.10 ASBESTOS

3.10.1 DESCRIPTION

Transite siding was tentatively identified on Buildings 623 and 624 (photos 9, 10). This material is known to contain asbestos fibers. None of the buildings, however, has been surveyed for asbestos.

3.10.2 KNOWN AND SUSPECTED RELEASES

There is no documentation of asbestos release. No damaged insulation was observed.

Section 4

Human and Environmental Receptors



SECTION 4

HUMAN AND ENVIRONMENTAL RECEPTORS

The pathways by which human and environmental receptors may be exposed to site-related chemicals are discussed in this section.

4.1 GROUNDWATER

Infiltration and percolation to the groundwater is minimal because much of the property is paved. The groundwater in this area is brackish and unfit for consumption. Drinking water for the greater New Orleans area is obtained from the Mississippi River. If any contaminants were to penetrate the asphalt or concrete floors of the buildings through cracks, they could reach the groundwater 8 to 10 ft below. All registered wells within 3 miles are drilled to 700 to 800 ft, and it is anticipated that they would not be affected by the contaminants. The shallow groundwater would be expected to eventually discharge to the Mississippi. However, the concentrations would be expected to be quite dilute. There are no records of the shallow groundwater being used in this region. The effects on human and environmental receptors exposed to groundwater are anticipated to be minimal.

4.2 SURFACE WATER

Stormwater runoff is collected by stormwater sewers and is discharged to the city storm sewer system, which discharges to the Gulf Outlet Canal. No ongoing discharges or surface contamination was apparent during the site inspection; therefore, no impact on human and environmental receptors from surface water is expected. Any spills in the berths could drain directly to the Mississippi River, or to the fill land underneath the berths. Contaminants, if present in this sediment, could leach or be eroded into the Mississippi River. Any contaminants that would reach the river would be significantly diluted. Impact on aquatic life and waterbirds in the area is expected to be low.

4.3 AIR

No permanent sources of air contaminants are known to be present onsite. Therefore, no human or environmental receptors would be impacted by air contaminants at the site. However, the potential exists for exposure to asbestos from the siding in some of the buildings if it is removed or damaged.

4.4 SOILS

Because most of the site is paved with asphalt, little direct contact with contaminated surfaces is anticipated. An underground storage tank, which was replaced in 1982, was found to have leaked. The effect of this release to the environment is unknown. There is no evidence of leakage from

transformers or any other releases to the soil. Soil contamination from organics near the vehicle wash rack or the railroad tracks is possible, and could present a direct contact hazard to workers in these areas. A spill in one of the berths could drain to the fill land underneath.

4.5 OTHER HAZARDS

4.5.1 FIRE AND EXPLOSIONS

Transformers present a risk of fire and explosion. However, the risk of fire and explosion does not appear to be any greater than for transformers at other industrial sites. Once chemicals stored at the site are removed prior to property transfer, there would be no other known fire or explosion hazard present.

4.5.2 DIRECT CONTACT

The walls and floors of buildings that housed hazardous materials may have absorbed contaminants that could be contacted by personnel at a later time. Such buildings include Buildings 623, 624, and the five berths. Building surfaces, if contaminated, may provide a direct contact hazard to site personnel.

Section 5

Conclusions and Recommendations



SECTION 5

CONCLUSIONS AND RECOMMENDATIONS

5.1 SUMMARY OF FINDINGS

New Orleans MOT is a large, urban warehouse and shipping operation located on the Mississippi River. The facility is located in a residential section of New Orleans. Construction of the facility began in 1917. Wetlands have been identified within one mile of the facility.

There are approximately 10 registered wells within 3 miles of the installation. None are used for drinking water. The aquifer used in this area is approximately 700 ft deep.

There are few operations that would adversely impact local human and environmental receptors. These are summarized in the following subsections.

5.1.1 UNDERGROUND STORAGE TANKS

Four existing and three potential underground storage tanks are present at the facility. Monitoring wells are to be installed by the end of 1989 around the four known underground storage tanks.

- Tank 601-1 - Diesel fuel.
- Tank 601-2 - Waste fuel (currently inactive).
- Tank 601-3 - Gasoline.
- Tank 623 - Recycled fuel from unloading operation.

A former pump station equipped with two underground storage tanks was also identified. These tanks are believed to be still present. During the survey, a number of 1/4-in. steel pipes that ran underground were found behind Building 623, which indicates a potential tank. These operations are mainly a threat to soil and shallow groundwater.

5.1.2 TRANSFORMERS

None of the transformers onsite appeared to be leaking. However, they have not been tested for PCBs. Ownership and operational responsibility was reported to be the NSA's. A potential release from one of the units in the berths would affect either the Mississippi River or the fill under the berths. A potential release from the station on the parking lot would likely seep into the ground through cracks in the asphalt and perhaps to the Gulf Outlet Canal through the storm sewer.

5.1.3 FUEL UNLOADING AREA

The fuel unloading operation takes place inside Building 623 over a concrete floor. Gasoline is pumped out of POVs prior to shipment. Past spills would

likely have reached the drains in the building, which discharge to the storm sewer.

5.1.4 VEHICLE WASH RACK

A concrete pad behind Building 623 was used to wash vehicles. Washwater can be expected to have seeped into the surrounding ground because there are no drains nearby. It appeared that the water would potentially drain from one corner of the pad to the ground.

5.1.5 RAILROAD TRACKS

Rail lines were used extensively to transport hazardous materials including ordnance and chemicals. Many of the tracks present in 1963 have either been removed or paved over. Potential past spills during loading operations would have affected the soil. More mobile contaminants could have migrated to the shallow groundwater.

5.1.6 BERTHS 1 TO 5

These warehouse facilities have been used to store chemicals and ordnance since at least World War II. At the time of the survey, compressed gases, corrosives, flammables, oxidizers, and ordnance were observed. Any potential spills would be expected to affect either the Mississippi River or the fill material under the berths.

5.1.7 ASBESTOS

Buildings 623 and 624 were tentatively identified as having Transite siding, a material known to contain asbestos. No damaged insulation was observed. An asbestos survey, however, has not been performed for these buildings nor the berths.

5.2 RECOMMENDATIONS FOR FURTHER ACTION

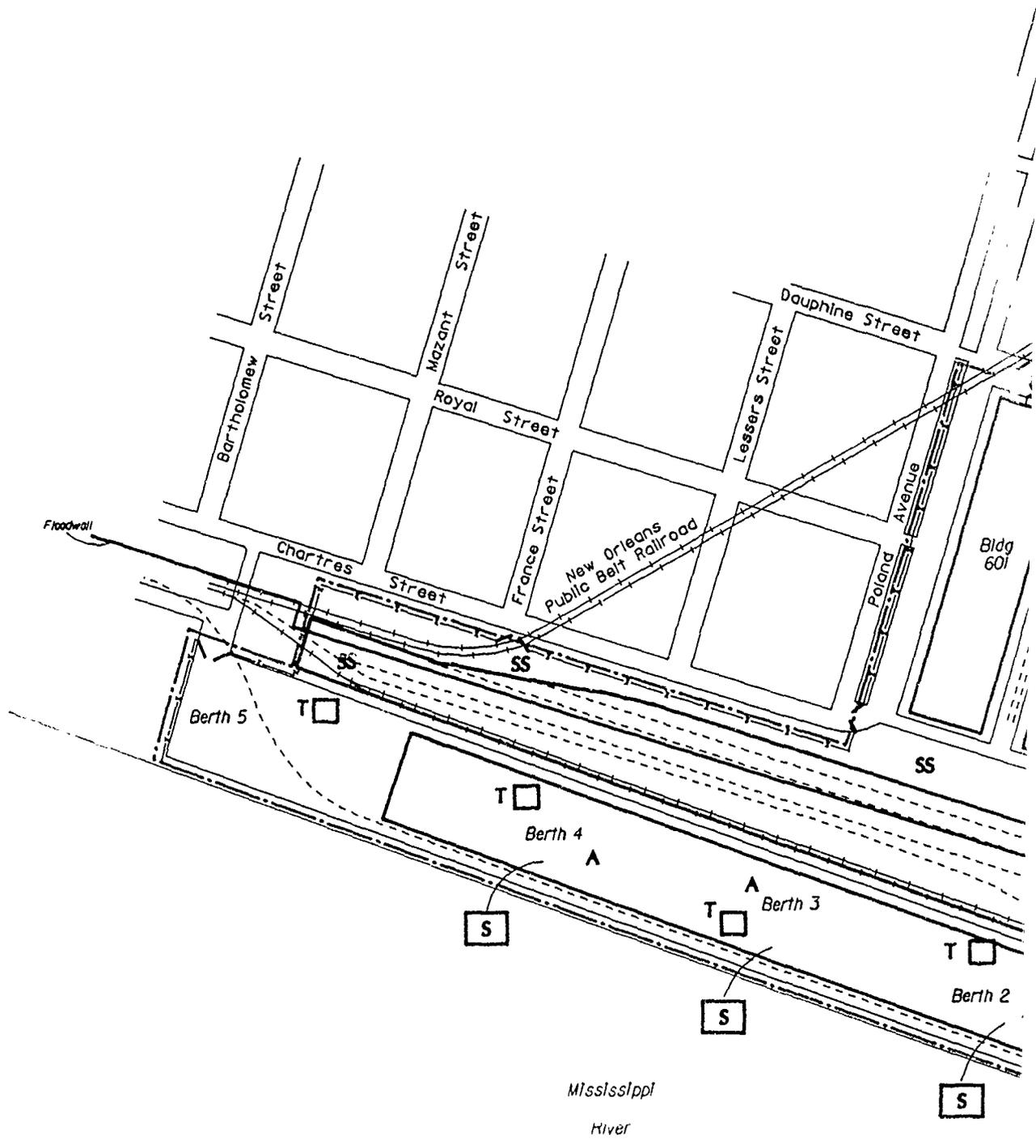
No conditions were observed on the property that appear to represent an immediate substantial threat to human health or the environment. The ESOs identified have the potential to affect human health or the environment. These recommendations are summarized in Table 5-1 and shown in Figure 5-1. Sampling and additional study is recommended as follows.

5.2.1 UNDERGROUND STORAGE TANKS

No further action is recommended because monitoring wells are planned for the tanks near Ramp 613 and the tank adjacent to Building 623. During the survey, the following areas were identified as potential locations for underground storage tanks: near the boat ramp and behind Building 623. A geophysical survey should be performed in these areas to confirm the presence of tanks.

Table 5-1
 ESOs Identified at New Orleans MOT and Recommendations for Further Action

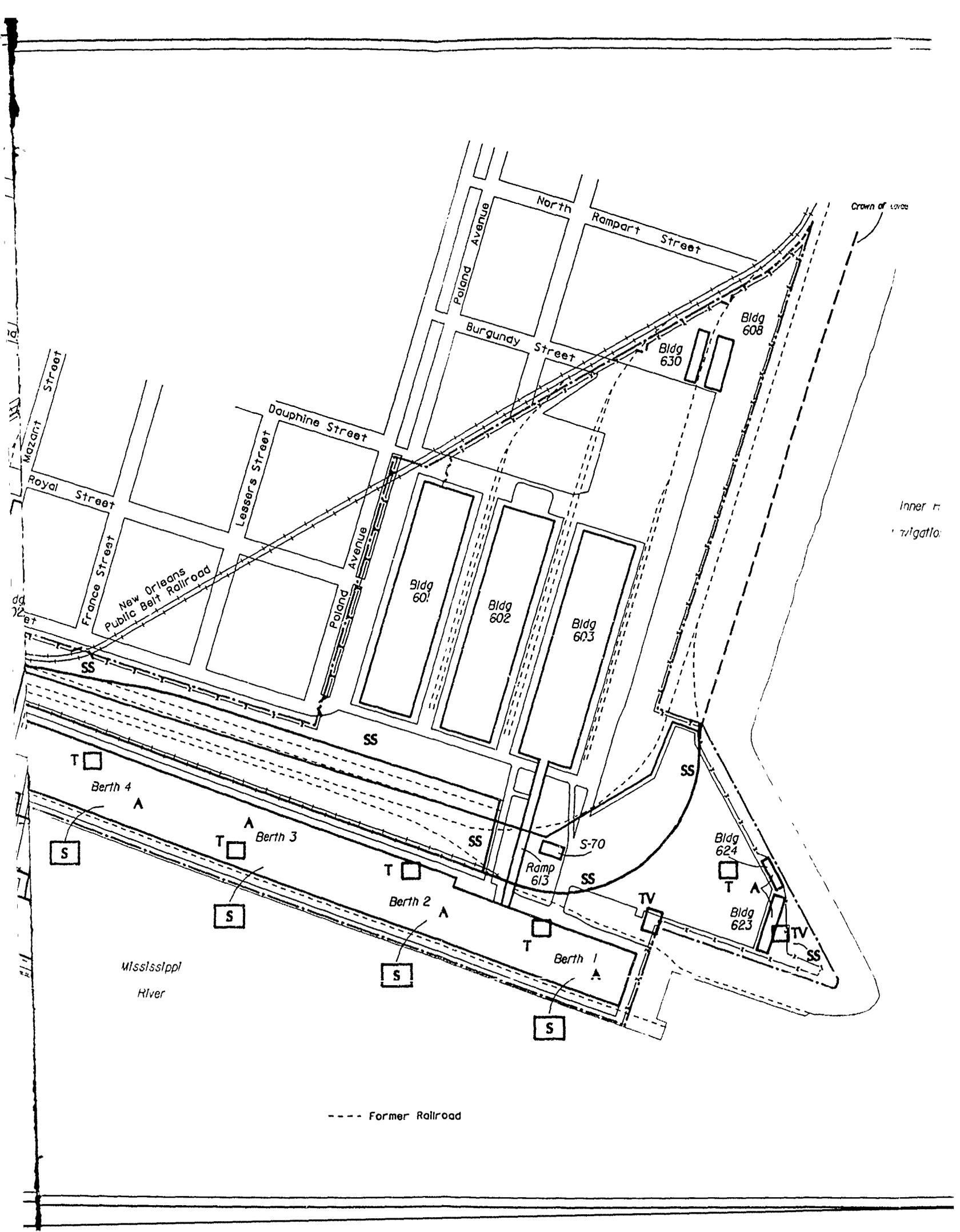
ESOs	Contaminants of Concern	Recommended Activity	Number of Samples	Location	Sample Type	Analysis
Underground Storage Tanks	Petroleum hydrocarbons	No further action	---	Next to Ramp 613	---	---
Underground Storage Tank	Petroleum hydrocarbons	No further action	---	In front of Building 623	---	---
Potential Underground Storage Tank	Petroleum hydrocarbons	Site Investigation		Next to boat ramp	Tank verification	
Potential Underground Storage Tank	Unknown	Site Investigation		Behind Building 623	Tank verification	
Transformers	PCBs	Site Investigation	1/transformer	Each transformer	Transformer oil	PCBs
Fuel Unloading Area	Petroleum hydrocarbons	Site Investigation	1	Floor drain	Drain sediments	TPH
Vehicle Wash Rack	Petroleum hydrocarbons	Site Investigation	2	Along drainage path	Soil	TPH and RCRA metals
Railroad Tracks	Creosote, ordnance, solvents, chemicals	Site Investigation	10 composite	Distributed through railway	Soil	TPH, pesticides, and BNAS
Berths 1 - 5	Ordnance, solvents, chemicals	Site Investigation	Approximately 15 composite	Sediments present under drains	Sediment	Priority pollutants
Asbestos	Asbestos	Site Investigation		Buildings 623 and 624 and Berths 1-4	Asbestos survey	Asbestos



USATHAMA

U.S. Army Toxic and Hazardous Materials Agency

--- Former Rail



Crown of Love

Inner
 Navigatio

Mozart Street
 Royal Street
 France Street
 New Orleans Public Belt Railroad

Dauphine Street
 Lessers Street

Poland Avenue
 North
 Rampart Street
 Burgundy Street

Bldg 601
 Bldg 602
 Bldg 603

Bldg 630
 Bldg 608

T
 Berth 4

T
 Berth 3

T
 Berth 2

T
 Berth 1

Bldg 624
 T

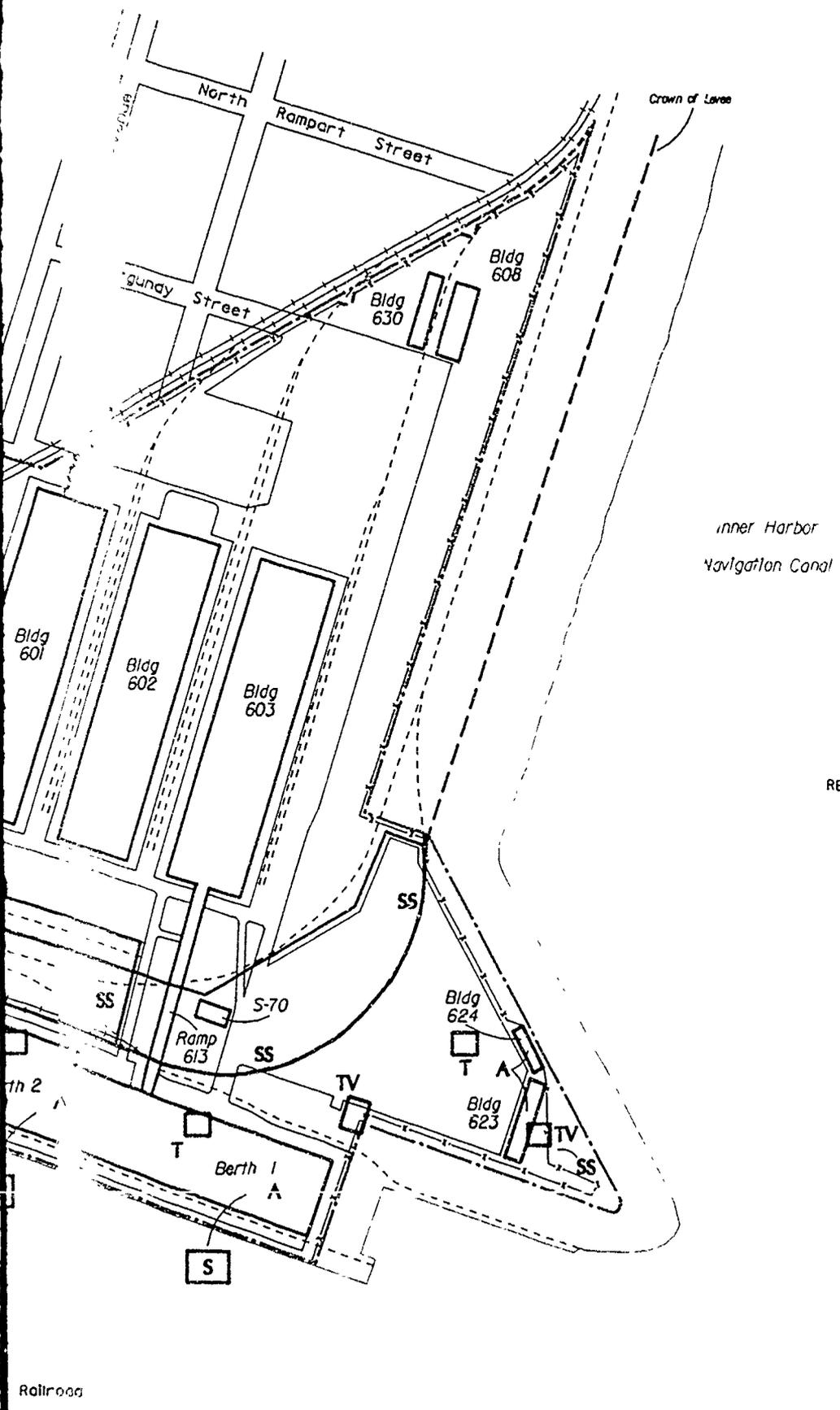
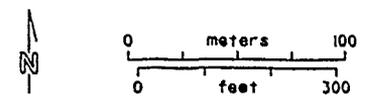
Bldg 623
 TV

Mississippi
 River

--- Former Railroad

Figure 5-1
Recommended Sampling
Locations

Compiled in 1989 from various sources
 provided by the U.S. Army Toxic and
 Hazardous Materials Agency



RECOMMENDED SAMPLING METHODS

- T** Transformer Oil
- SS** Surface Soil
- A** Asbestos
- TV** Tank Verification
- S** Sediment (Below Berths 1-4)

NOTE: Asbestos sampling is recommended for all buildings.

5.2.2 TRANSFORMERS

A sample of dielectric fluid should be obtained from each transformer and analyzed for PCBs. Each unit should be labeled appropriately as a PCB, PCB-contaminated, or non-PCB transformer, depending on the individual analytical results.

5.2.3 FUEL UNLOADING AREA

A sediment sample in the bottom of the trench drain in the fuel unloading area should be sampled and analyzed for TPH. The drain is the most likely pathway for any fuel spills.

5.2.4 VEHICLE WASH RACK

Split-spoon soil samples taken at a depth of 18 in. should be collected at two locations along the drainage pathway from the concrete wash rack. Samples at each location should be analyzed for TPH and RCRA metals.

5.2.5 RAILROAD TRACKS

Most of the area is now paved. Forty 18-in. split-spoon soil samples should be collected below the asphalt surface. These samples should be distributed throughout the yard and along the single rail line that ran through the facility. These samples should be composited into groups of four and analyzed for TPH, pesticides and BNA compounds on the EPA's priority pollutants list. These compounds represent constituents that may be present from chemicals that may have been stored since World War II.

5.2.6 BERTHS 1-5

Sediments under each of the drains should be sampled. There are approximately 15; the exact number of drains is uncertain. Three 18-in. split-spoon samples should be collected from under each drain and composited. The composite samples should be analyzed for priority pollutants because of the uncertainty of the chemicals that may have been spilled since World War II.

5.2.7 ASBESTOS

Samples of the siding from Buildings 623 and 624 should be collected. Although no other material was identified, Buildings 623 and 624 and Berths 1 to 4 should be surveyed for asbestos.

Section 6 References



SECTION 6

REFERENCES

6.1 DIRECT INTERVIEWS

- I-1 Chief, Office of Facilities Engineering
MTMC Gulf Outport
24 October 1989
- I-2 Civil Engineering Technician
MTMC Gulf Outport
24 October 1989
- I-3 Cargo Control Specialist
MTMC Gulf Outport
24 October 1989
- I-4 Stevedore, Ryan-Walsh, Inc.
24 October 1989

6.2 TELEPHONE INTERVIEWS

- T-1 Louisiana Department of Environmental Quality
14, 18, 19, 22, 27 September 1989
- T-2 New Orleans Water Department
27 October 1989, 3 November 1989

6.3 REPORTS AND OTHER DOCUMENTS

- R-1 Registered Wells in Orleans Parish, Louisiana Department of Transportation and Development.
- R-2 Ground Water for the Mississippi River Parishes in the Greater New Orleans Area, Louisiana - Water Resources Basic Records Report No. 11; United States Department of the Interior Geological Survey in Cooperation with Louisiana Department of Transportation and Development Office of Public Works, 1983.
- R-3 Ground Water Resources of the Greater New Orleans Area, Louisiana - Water Resources Bulletin No. 9, Department of Conservation Louisiana Geological Survey and the Louisiana Department of Public Works; 1966.
- R-4 Settlement Study 1972, Condensed Version.
- R-5 Louisiana Tank Project Contract No. N62467-87-C-0264, Engineering, Design and Geosciences Group, Inc. 1978.



- R-6 Preliminary Report of Excess at New Orleans Army Base, U.S. Army Corps of Engineers - Fort Worth District, 1989.
- R-7 Installation Assessment Army Base Closure Program, New Orleans Military Ocean Terminal, New Orleans, Louisiana, the Bionetics Corporation, 1989.
- R-8 Water Management Division, U.S. Environmental Protection Agency, Region VI, 3 October 1989 letter to Roy F. Weston, Inc.
- R-9 U.S. Environmental Protection Agency, Region VI, 4 October 1989 letter to Roy F. Weston, Inc.
- R-10 Climate of the States 2, Western States, Water Information Center, Inc. Port Washington, NY, 1974.
- R-11 1988 Local Climatological Data, Annual Summary with Comparative Data, New Orleans, Louisiana, National Oceanic and Atmospheric Administration, Asheville, NC.
- R-12 Flood Insurance Rate Map, City of New Orleans, Orleans Parish, Federal Emergency Management Agency.

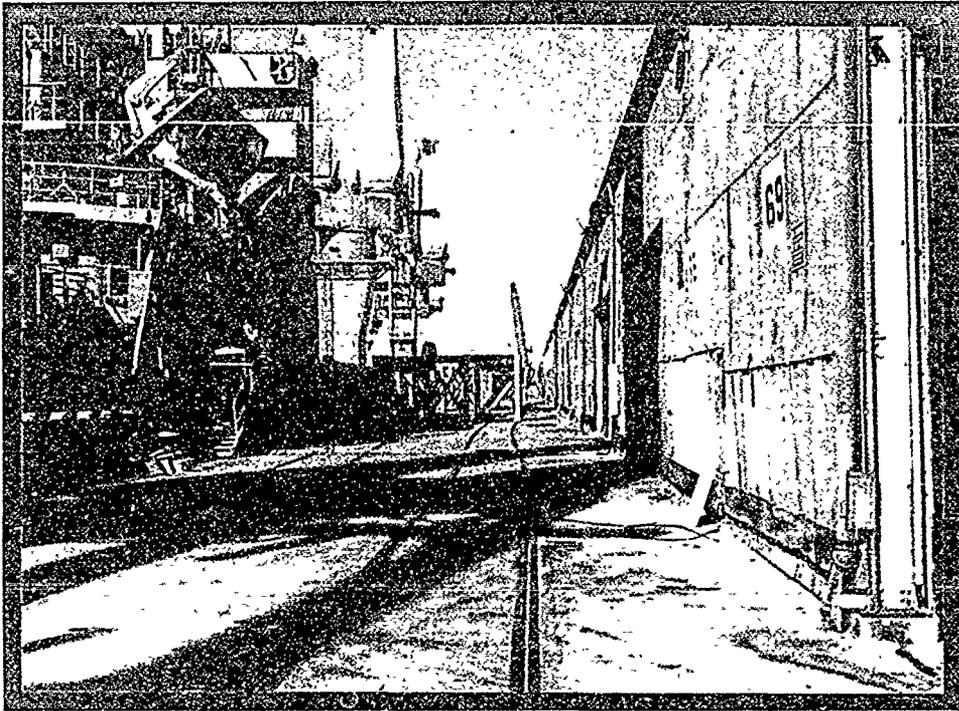
Section 7 Photographs



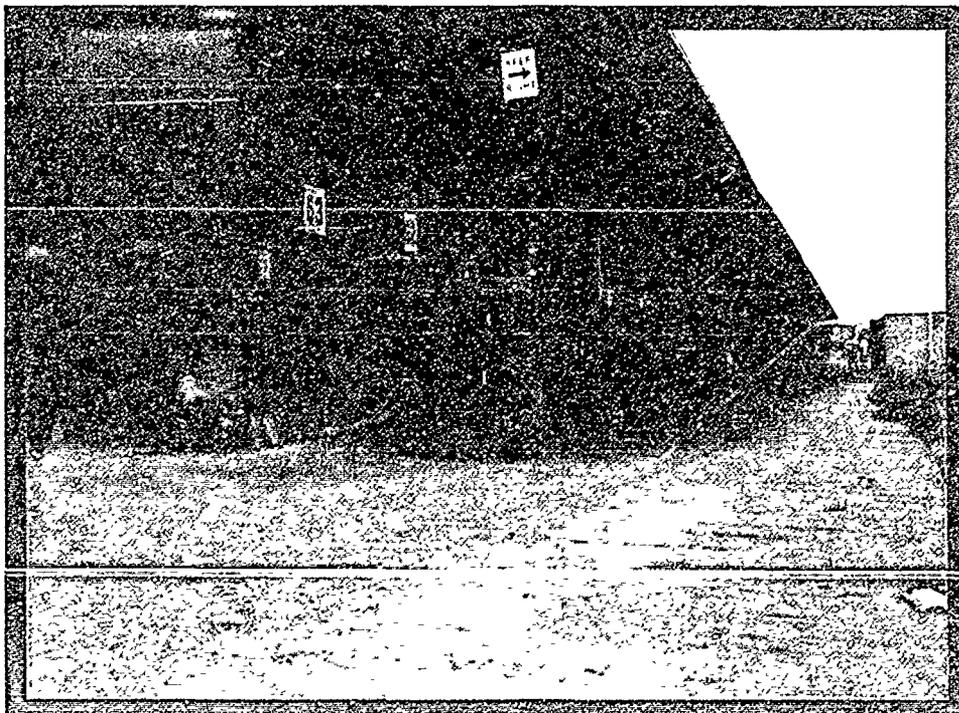
SECTION 7

PHOTOGRAPHS

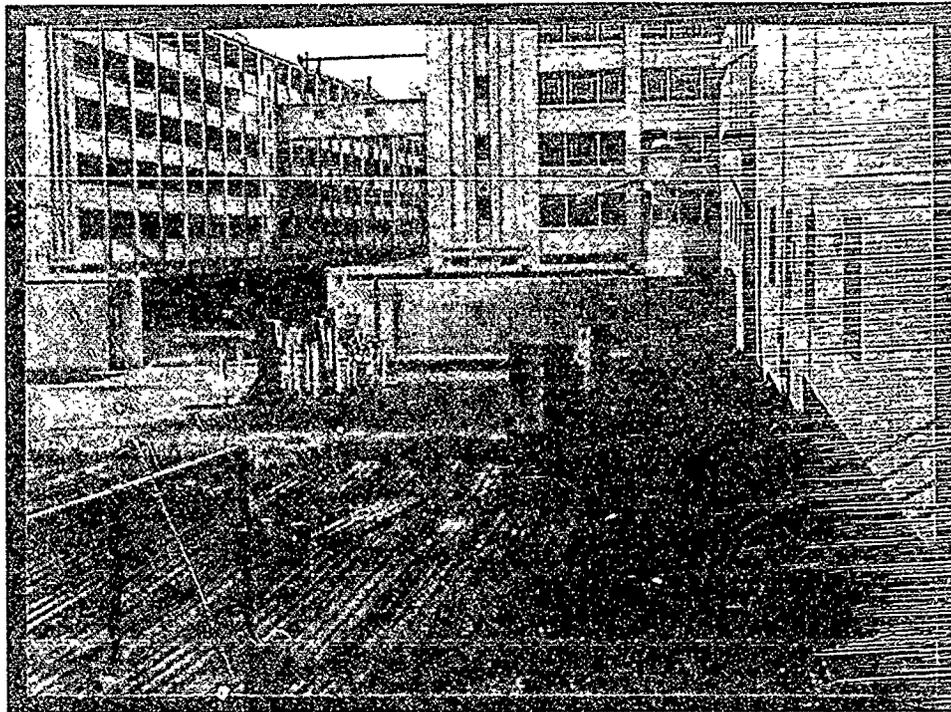
Photographs of ESOs taken during WESTON's site visit are included in this section.



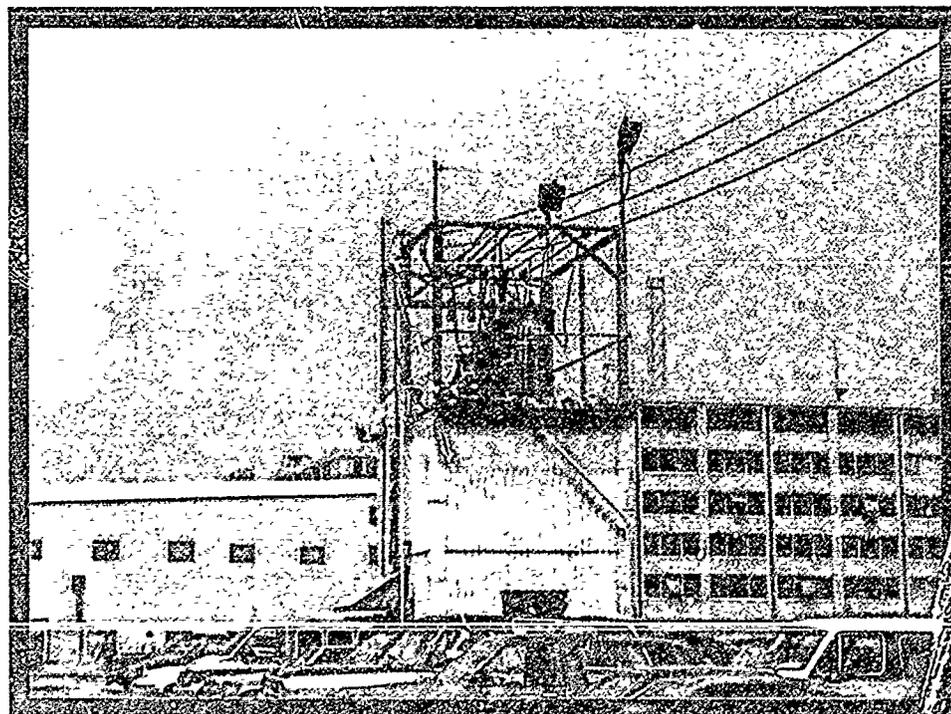
1. BERTHS 1 TO 4 - RIVER SIDE



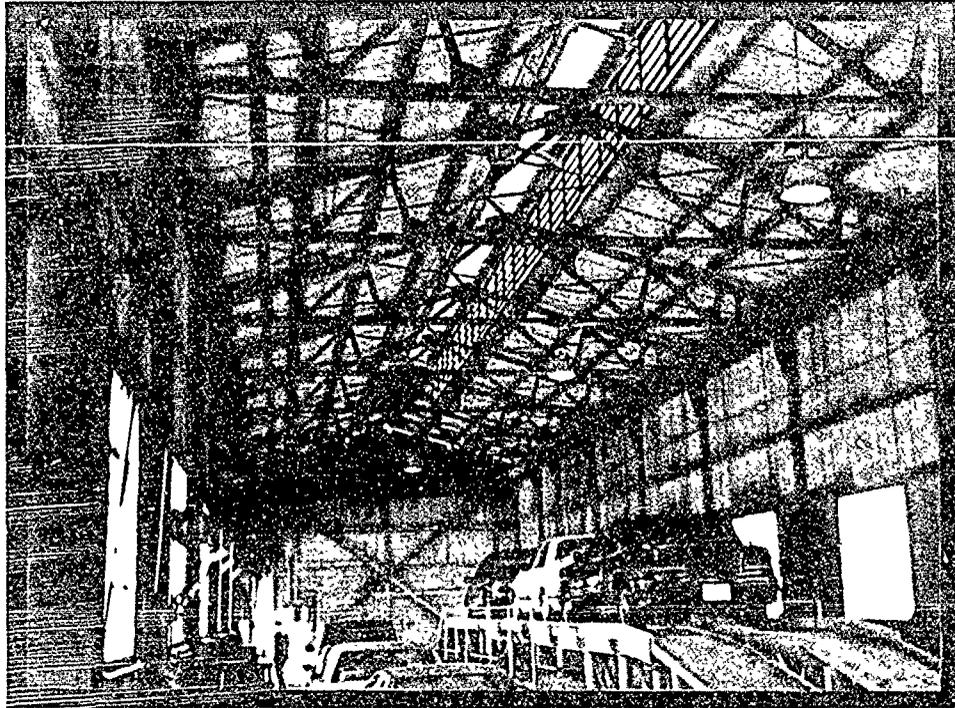
2. BERTHS 1 TO 4 - LAND SIDE



3. UNDERGROUND STORAGE TANKS (RAMP 613)



4. TRANSFORMER STATION



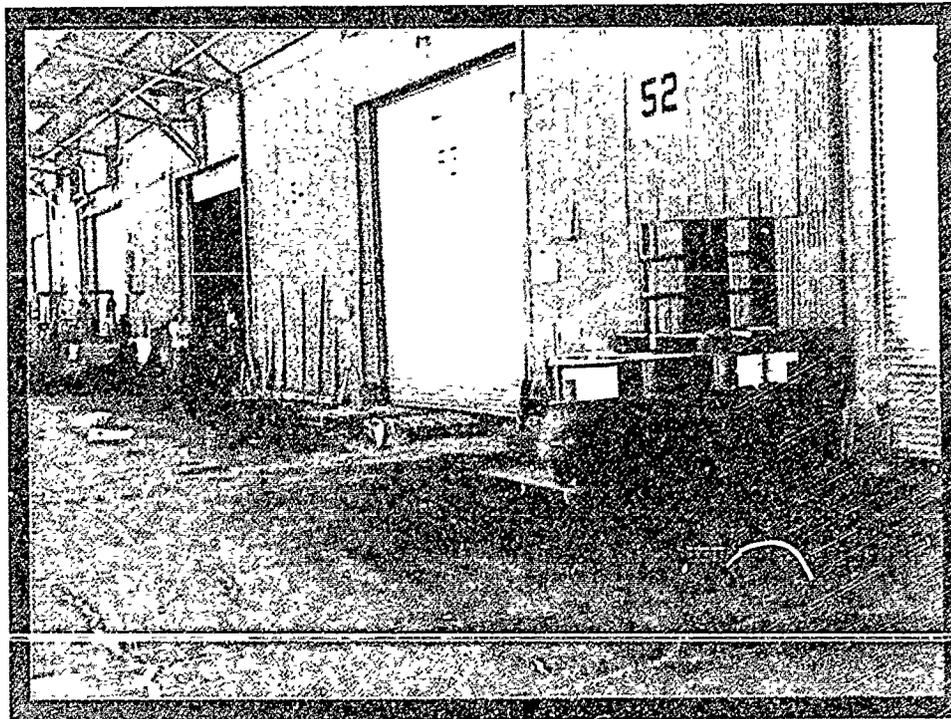
5. FUEL UNLOADING AREA - BUILDING 623



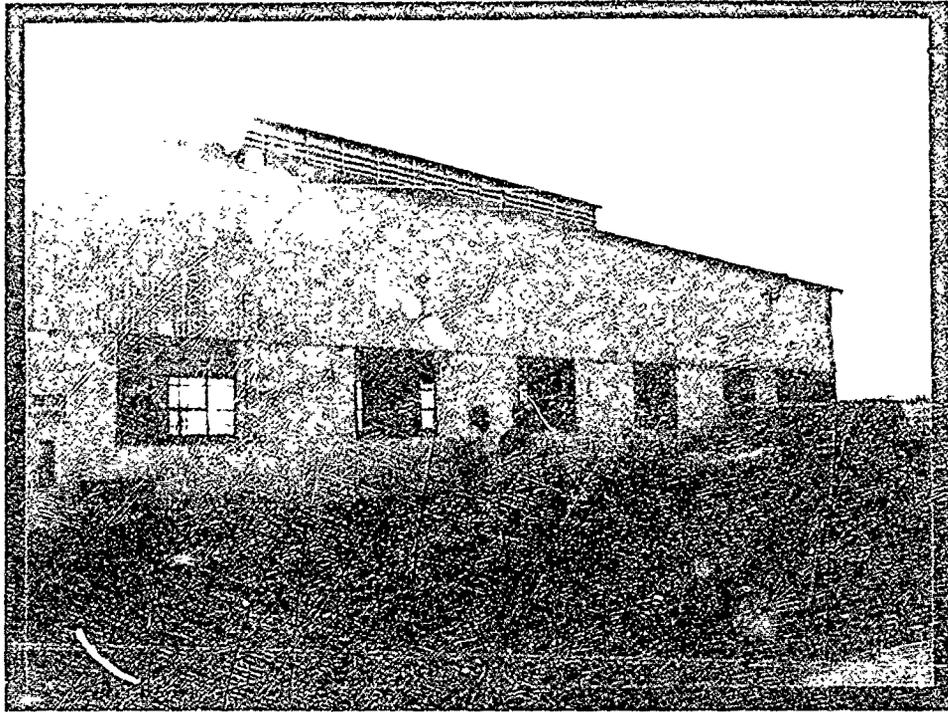
6. MATERIAL STORAGE - BERTH 1



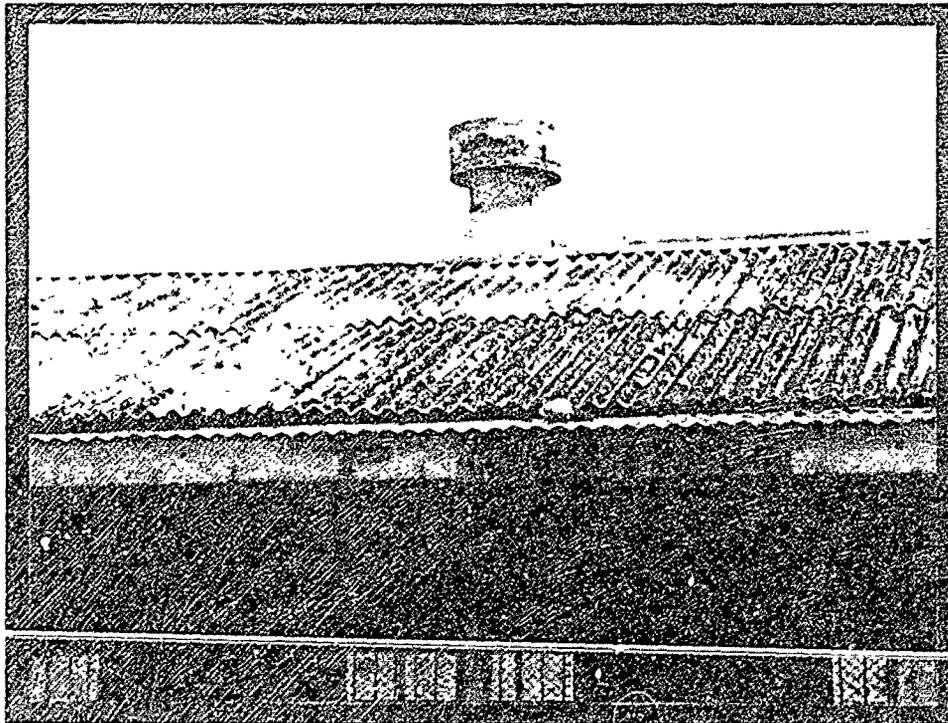
7. MATERIAL STORAGE - BERTH 1



8. OUTSIDE STORAGE - BERTH 1



9. BUILDING 623



10. BUILDING 624

Appendices



APPENDIX A

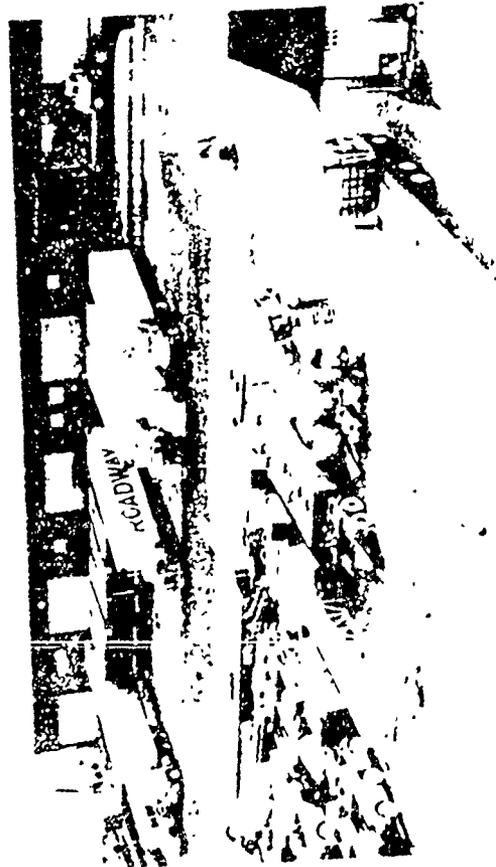
**SUMMARY OF OPERATIONS
(EXCERPTS)**

III. current mission and operations

general

Gulf Outport has the general mission of planning for and accomplishing the expeditious movement of Government-sponsored cargo in the New Orleans / gulf coast area. As directed by HQ MTMCEA, Gulf Outport must:

1. Receive, stage, and move all export and import shipments transiting the outport.
2. Operate a container freight station.
3. Monitor and document all DOD shipments transiting through the Port of New Orleans.
4. Pack and crate shipments for the outport and other agencies, as necessary.



port operations

general

5. Provide cargo security for Gulf Outport.
6. Command troops assigned to the outport.

Within the scope of the Gulf Outport mission are three operational areas: container stuffing, port operations (breakbulk and barge), and personal property shipment. Included in the personal property shipment is the receiving and shipping of privately owned vehicles (POVs), as well as the shipping and storage of household goods (HHG).

Since 1973, a general reconfiguration of the cargo operations area has taken place. The cargo operations areas, both import and export, are roughly bounded by Third Street southward to the water and A Street eastward to the levee. The POV processing and storage area is located in the southeastern corner of the outport and in the first four rows of the parking lot north of Building 601 and west of A Street. Household goods are stored mainly on the first floor of Building 601 and in the transit shed. Most administrative offices are located in either Building 601 (second floor) or the transit shed.

Gulf Outport is considered to be a major tenant of the Navy because it leases, from the Navy, all of its administrative and covered storage space, with the exception of the transit shed and wharf. Other major tenants in the terminal are: the Coast Guard, Military Sealift Command (MSC), Navy Public Works Center, and 4th Marine Air Wing (MAW). The New Orleans Dock Board leases part of the transit shed (sections 4 and 5) (see fig I-2) and the open wharf area from Gulf Outport.

Port operations at Gulf Outport include loading, unloading, and staging of breakbulk and barge cargo, and stuffing and unstuffing of containers. These activities are controlled by the Cargo Operations Division control center, located in Building 601. Gulf Outport currently handles about 44,650 MTON of breakbulk and barge cargo per month and 9,713 MTON of containerized cargo per month (based on FY 78 through FY 80 figures). Under present workloads, existing berth space is adequately used.

Cargo enters Gulf Outport by rail and truck. Inbound tractor-trailers/containerizers receive their documentation at the contractor-operated truck control center at the northeastern corner of Building 601, as shown on the flow chart (fig II-4). From the truck control center, the driver is directed to an unloading dock along the east side of Building 601 or to the wharf transit-shed receiving area on the city side of section 1. When possible, cargo receiving and staging in the warehouses are performed concurrently. Once a truck is spotted, it is completely unloaded at that site. As cargo is taken off the truck, it is sorted and moved to a staging area designated for a specific destination or type of cargo. Transferring cargo between warehouses is kept to a minimum, and when required, it is done by contractor personnel using forklifts and dock trailers.

breakbulk

Table III-1 shows a commodity profile of breakbulk and containerized cargo handled at Gulf Outport over the last 9 years. General cargo and POVs comprise the majority of cargo at Gulf Outport. The breakbulk workload has taken a downward trend over the last 3 years. Table III-1 shows this trend and the breakout for import and export tonnages. Total breakbulk workload, at present, averages about 44,650 MTON per month.

Most of the breakbulk operations take place in Building 630 and parts of the first floor of Building 601. A layout of the first floor of Building 601 is shown in figure III-1. Other warehouses are used to store cargo that requires special facilities, such as the first floor of Building 602 for POVs requiring special security and Building 608 for hazardous cargo. A walk-through inspection of all warehouses revealed efficient storage of cargo, with a high degree of floor space utilization, averaging about 75 percent. Both of the primary warehouses are parallel to usable rail lines and have loading ramps along their sides to aid in offloading trucks.

Import cargo generally is placed on the city side of Building 630, where it awaits pickup by commercial carrier. Building 630 has a truck-trailer loading ramp running the length of section 1 westward to the elevated ramp between Buildings 601 and 630 (fig III-2).

container stuffing/unstuffing

Based on statistics for FY 78 through FY 80, about 18 percent of the cargo is containerized. At present, this amounts to 9,700 MTON a month. Most of the containerized cargo is bound for the Canal Zone, Europe, the Far East, and the Mediterranean. Currently, the breakdown of container stuffing/unstuffing operations is 81 percent general cargo (73 percent in container vans and 8 percent in MILVANS) and 19 percent POVs (in container vans). At times reefer cargo transits the outport; however, this is extremely rare and involves less than 1 percent of container operations.

The first floor of Building 601 is the primary container-stuffing warehouse at Gulf Outport. The east side of Building 601 is where most container operations take place; however, other ramps are available between Buildings 601 and 602, if needed (figs III-3 and III-4). A layout of the container-stuffing warehouse is illustrated in figure III-5. As can be seen, this building is well suited for stuffing operations, with loading docks running the full length of its east and west faces. This building is also accessible by rail on the west side. The rail line to the east side of the building is unusable because parts of it have been paved over in the POV open-storage lot.

TABLE III-1
BREAKBULK AND CONTAINER COMMODITY PROFILE, FY 1972 THROUGH FY 1980

Comm Code	Export and Import Workload (MTON)									
	FY 72	FY 73	FY 74	FY 75	FY 76	FY 77	FY 78	FY 79	FY 80	
10 Aircraft, Unboxed	40	1,200	136	-	32	-	-	-	1,311	-
20 Explosives	-	-	-	5	-	-	-	-	-	-
25 MILVANS - Explosives	-	-	-	-	-	-	-	-	-	-
30 Bulk	370,346	286,055	209,360	155,085	114,350	28,412	114,869	107,783	90,308	66,031
40 General	10,588	7,249	6,236	9,819	5,702	1,440	9,674	7,587	9,666	8,898
41 Lumber, Lots, etc.	33,894	17,678	6,213	3,304	5,154	1,094	1,805	2,172	2,075	2,078
43 Unboxed Metal Products	95,790	71,164	32,554	36,334	23,281	11,938	8,115	4,844	3,165	1,874
44 CONEX	3,015	3,708	8,839	11,914	5,472	608	5,825	20,102	11,040	6,304
45 MILVANS - Other	99,797	49,967	29,822	56,131	28,167	3,168	43,327	150,632	56,846	54,283
47 Household Goods and Baggs	25,460	28,488	24,704	23,976	22,569	5,274	21,942	19,760	16,400	10,143
50 Reefer	73,654	109,540	80,494	56,281	52,832	5,278	69,535	39,750	32,303	29,766
60 Unboxed Vehicles - Heavy	34,905	25,473	22,179	21,963	35,829	3,474	17,514	17,863	23,468	17,152
61 Unboxed Vehicles - Light	69,197	77,949	65,308	65,322	68,425	22,471	76,439	64,599	70,967	64,286
62 Unboxed Pkgs	131	77	72	145	70	-	-	-	-	-
63 RORO Trailers	157,177	185,353	180,849	193,655	160,072	41,280	138,015	185,608	191,619	167,359
73 Commercial Vans	-	58	142	-	-	-	-	-	-	-
-- Berth - Aircraft	8,780	24,868	8,601	7,909	4,986	1,113	13,600	-	2,066	7,613
-- Berth - Other	19,726	18,872	18,653	10,952	9,696	3,626	6,917	-	15,014	25,052
-- Berth - Vehicles/MILVANS	-	-	-	-	-	-	-	-	-	-
Total Breakbulk Cargo	1,002,500	907,699	694,162	652,795	536,637	129,176	527,577	620,302	526,248	460,839
71 Stuff/Unstuff - CONEX	1,908	1,284	1,591	1,614	1,130	182	835	670	495	332
75 Triwall/Palletize - Other	776	97	2,017	237	16	-	-	3	-	-
76 Triwall/Palletize - Expl	-	-	-	-	-	-	-	-	-	-
77 Stuff/Unstuff C/V - Other	257,169	112,981	133,973	139,863	86,452	20,802	83,601	89,875	87,950	76,179
78 Stuff/Unstuff RORO	-	-	-	-	-	-	-	-	-	-
79 Stuff/Unstuff C/V - Veh	89	7,138	14,484	17,325	12,208	4,710	17,317	17,152	26,229	23,969
82 Mini Bridge	-	-	-	2,895	4,060	-	10,351	2,373	1,651	-
83 Illustrated	-	-	-	-	-	-	-	-	-	-
85 Stuff/Unstuff M/V - Other	182	-	-	-	-	-	-	4,791	7,844	10,094
87 Stuff/Unstuff C/V - Reefer	-	-	-	-	-	-	-	-	-	72
Total Containerized Cargo	260,124	121,500	152,065	161,934	103,866	25,694	112,107	114,854	124,169	110,646
Total	1,262,624	1,029,199	846,227	819,729	640,503	154,870	639,684	735,156	650,417	571,485

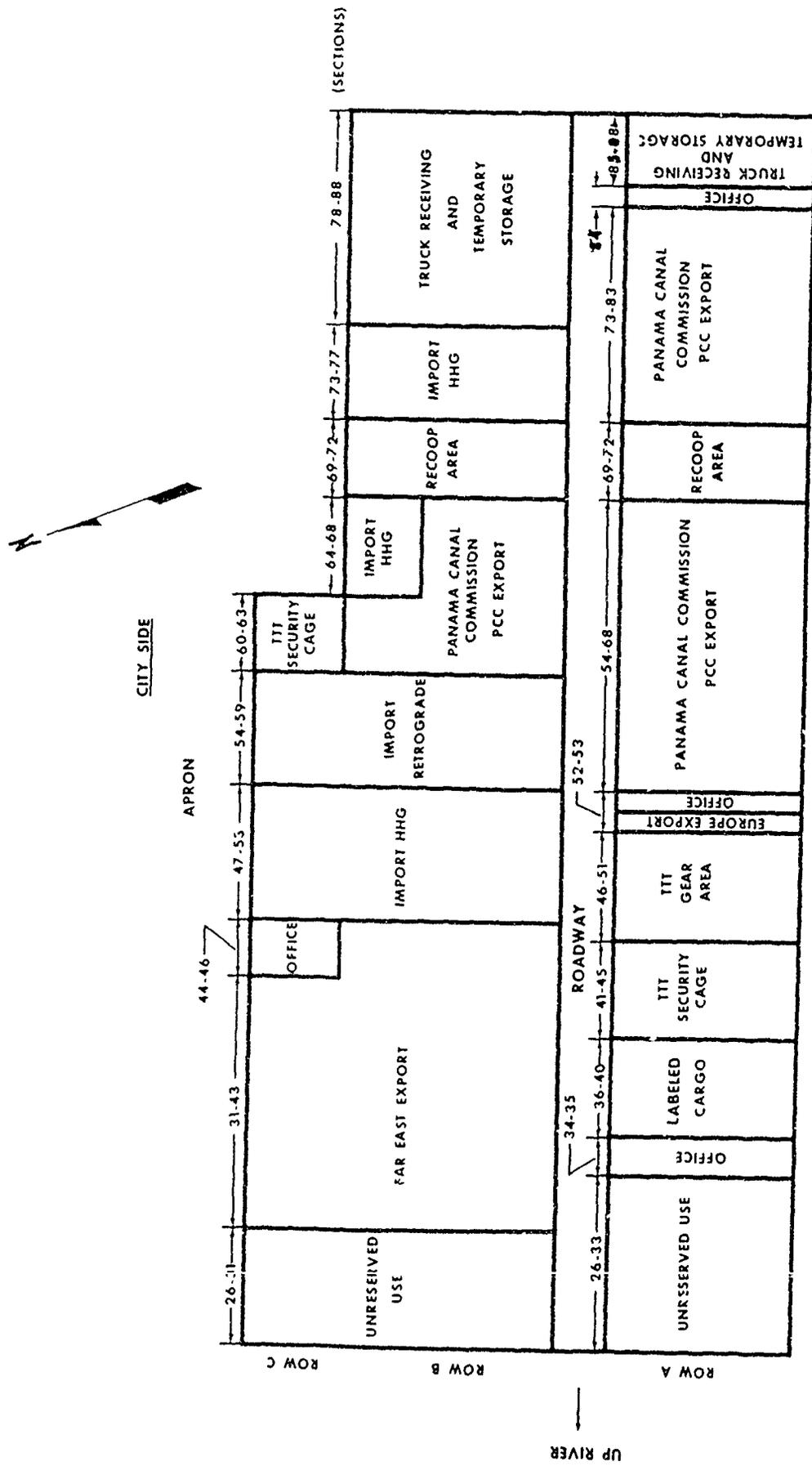


Figure III-1. Floor layout of Building 601, 1st floor.

roll-on/roll-off (RORO)

RORO operations are infeasible at Gulf Outport because of excessive tidal variations and the lack of available open-storage area. The nearest accessible RORO facilities are at the France Roads Terminal, located on the Inner Harbor Navigation Canal, north of Gulf Outport. This facility has one stern-loading RORO knuckle, with access from the north and south sides; therefore, it can handle two RORO ships at once. The south side of the knuckle can accommodate any RORO ship in existence today. The north side of the knuckle is very low to the water and can accommodate only smaller size RORO vessels (300 to 400 feet long), which could tie up to mooring clusters. This facility is illustrated in figures III-6 and III-7.

personal property

Personal property operations at Gulf Outport are divided into POV and household goods categories. These operations fall under the direction of the Cargo Operations Division.

privately owned vehicles. POVs are handled in either breakbulk or container operations. The following matrix provides condensed information in MTON of POVs processed through Gulf Outport in FY 79 and FY 80:

<u>Year</u>	<u>Breakbulk</u>	<u>Container</u>	<u>Total</u>
FY 79	70,967	26,229	97,196
FY 80	64,286	23,969	88,255

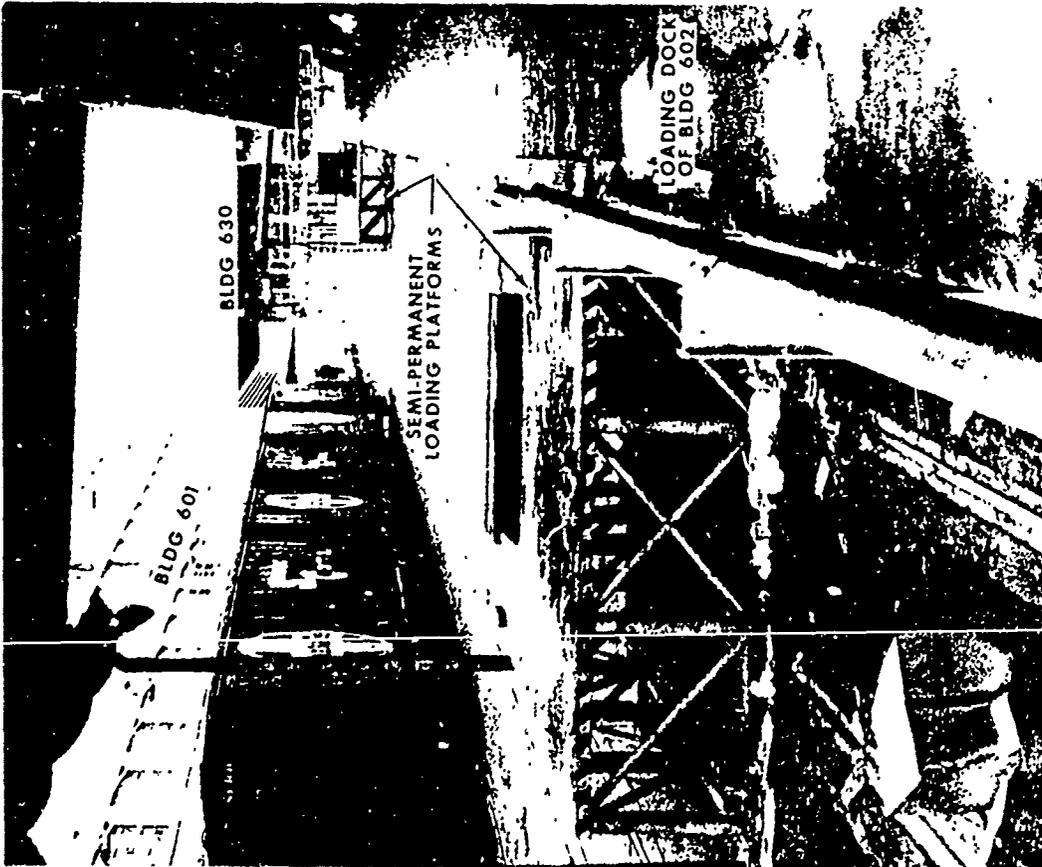


Figure III-4. Loading platforms on east side of Building 602 (southward view).

III-8

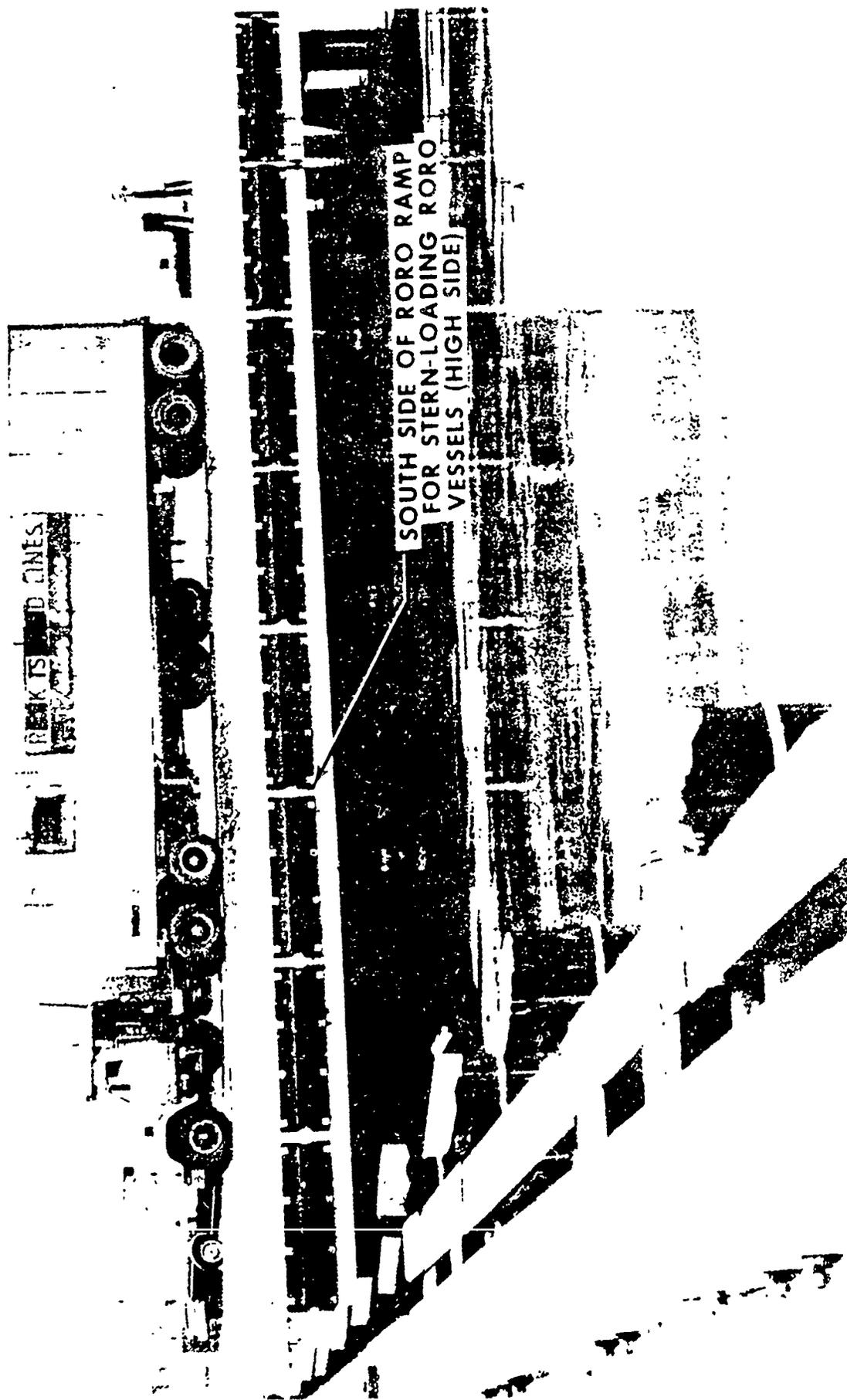


Figure III. RORO berth at France Roads Terminal (northward view).

III-10

As can be seen, breakbulk handling of POVs is considerably higher than containerization.

When personnel turn in POVs for shipment overseas, they report to the POV processing office on the first floor of Building 601, adjacent to Second Street. Vehicles are inspected, for preshipment condition, in front of Building 601. During inclement weather, vehicles are inspected on the loading dock on the west side of Building 601. Currently, Gulf Outport has no covered inspection station for POV operations. After inspection, POVs to be shipped overseas are moved to the staging area adjacent to Building 623. Prior to shipment, they are moved through the processing line (Building 623), where the fuel is drained, batteries are disconnected, and pilferable items are removed (fig III-8). The POVs are then staged, by destination, for export (fig III-9). POVs exported by containers are stuffed into containers at the loading dock area on the city side of Building 630. When more stuffing positions are needed, the loading dock areas at Buildings 601 (west side) and 602 (east side) can be used.

Import POV operations are the reverse of export operations. When Gulf Outport is notified by a customer that he/she will be arriving to pick up his/her POV, 1 or 2 days prior to pickup, the POV is moved to the overflow staging lot north of Building 601.

Export POV shipments have been gradually declining over the past several years, while import shipments are up. This is clearly shown in table III-2, which lists shipments handled at Gulf Outport for 1978 through 1980. The yearly peak is seen to occur in

the July to November time frame. During these peak months, the overflow staging area north of Building 601 is usually needed.

At times, POVs are shipped by rail to Gulf Outport. These POVs usually arrive on multilevel railcars and are unloaded on the western side of Building 601. Most POVs arriving this way are imports from Hawaii, which are offloaded on the west coast and then shipped by rail to Gulf Outport. A listing of POV rail shipments to Gulf Outport is shown in table III-3. As can be seen, the peak influx is again during the summer months, with 63 percent arriving from May through September.

household goods. HHG moved through Gulf Outport make up about 12 percent of all breakbulk cargo handled. HHG are staged according to their point of destination (POD), loaded, and exported with other compatible cargo. Export HHG are essentially treated the same as any other breakbulk cargo.

Import HHG are unloaded from a vessel and stored in sections 47 to 53, 64 to 68, and 73 to 77 of Building 630. Storage-in-transit (SIT) HHG taken out of containers are staged on the first floor of Building 602, where they await loading and pickup by commercial carrier. Prior to loading, the Freight Traffic Division, which maintains overall control of import HHC, prepares Government bills of lading for each shipment, to be given to the carrier at the time of pickup. HHG for long-term storage (nontemp) are not stored at Gulf Outport, they are turned over to the Navy for storage.

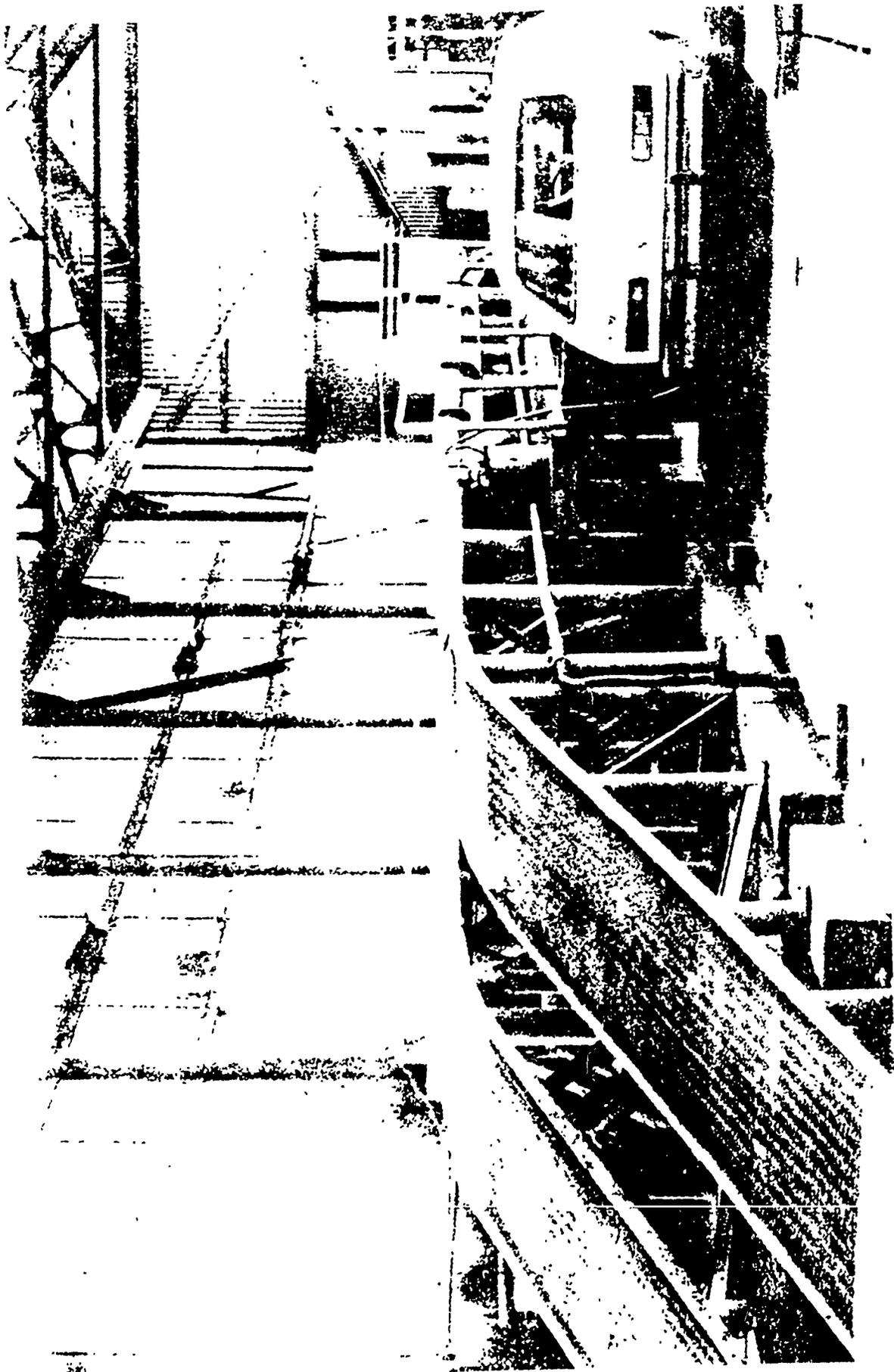


Figure III-8. Processing line for POV cargo operations (Building 623).

III-15

TABLE III-2
PRIVATELY OWNED VEHICLES HANDLED AT GULF OUTPORT*

Month	Export			Import		
	1978	1979	1980	1978	1979	1980
January	217	494	307	264	284	341
February	236	281	270	318	241	268
March	258	346	317	289	305	346
April	304	322	311	252	303	297
May	413	494	415	284	274	326
June	480	616	433	338	498	472
July	512	586	435	350	529	627
August	611	597	412	504	689	515
September	414	312	285	364	398	514
October	361	316	261	408	456	549
November	363	294	255	337	343	377
December	475	308	292	370	372	390
Total	4,776	4,966	4,023	4,078	4,698	5,022

* Includes both breakbulk and containerized POVs.

Except for FY 78, the movement of HHG through Gulf Outport has remained relatively constant over the last 4 years. A listing of recent shipments of HHG moved through the terminal is shown in table III-4.

TABLE III-3
POV SHIPMENTS ARRIVING BY RAIL IN 1980

Month	Number of Shipments	Number of Railcars	Number of POVs	Percent of Total Number of POVs
January	0	0	0	0
February	0	0	0	0
March	3	5	67	13.7
April	2	2	27	5.5
May	2	4	63	12.9
June	2	6	64	13.1
July	5	5	73	15.0
August	2	2	29	5.9
September	3	8	78	16.0
October	1	2	20	4.1
November	2	3	33	6.8
December	2	3	34	7.0
Total	24	40	488	100.0

TABLE Iii-4
HOUSEHOLD GOODS MOVED THROUGH GULF OUTPORT
DURING FISCAL YEAR 1980

FY 80	Number of Shipments		Total
	Export	Import	
October	642	1,572	2,214
November	331	886	1,217
December	301	748	1,049
January	256	937	1,193
February	285	514	799
March	267	880	1,147
April	246	708	954
May	232	352	584
June	225	922	1,147
July	230	1,484	1,714
August	440	1,140	1,580
September	<u>192</u>	<u>697</u>	<u>889</u>
Total	3,647	10,840	14,487

MILITARY TRAFFIC MANAGEMENT COMMAND GULF OUTPOST
 4400 DAUPHINE STREET
 NEW ORLEANS, LOUISIANA 70146-6000



STAFF DIRECTORY
 AREA CODE (504) 948 XXXX
 (504) 942 6XXX
 AUTOVON 363 XXXX
 OPERATOR ASSISTANCE 363 5011

COMMANDER
 MTEA-GUL-C 5190
 LTC PATRICK A PARKER

DEPUTY COMMANDER
 MTEA-GUL-DC 5181
 LCDR DONALD M GORDANO, SC, USN

SUPPORT STAFF

ADMINISTRATION DIVISION
 MTEA-GUL-AD

CHIEF	MS EILEEN C SMITH	140
BUDGET ANALYST	MS CAROLYN V PORTER	120
PROGRAM ANALYST	MR IRVIN SMITH	635H
PERSONNEL LIAISON/PA REP	MS LYNDIA P BLAIR	636H
RECORDS, FORMS AND PUBLICATIONS VACANT		121H
MAIL CLERK	MR RAYMOND A WILLIAMS JR	635H
PROPERTY BOOK OFFICER	MR SIDNEY P MAILLOUX III	523H
SUPPLY OFFICER	MS DIANA B WEST	533H

CONTRACT ADMINISTRATION OFFICE
 MTEA-GUL-CA

CHIEF	MS IONE M FRANCONI	1301
CONTRACT ADMINISTRATOR	MS KATHLEEN R DORAN	5292
PURCHASING AGENT	MR LYLE R MORRIS	1604

OFFICE OF FACILITY ENGINEER
 MTEA-GUL-EN

CHIEF	MR JOHN POLANSKY	6196
MOTOR VEHICLE OPERATOR	MR JOHNNY JACKSON	5791
TROUBLE SERVICE DISPATCHER	MR BOB SWAIN	6195

SPECIAL STAFF

SAFETY & SECURITY DIVISION
 MTEA-GUL-SS

CHIEF	CPT PERRY A GORSUCH	5226
SAFETY & OCCUPATIONAL HEALTH SPECIALIST	MR GEORGE H STRUNK	6364
TRAINING NCO	SGT(P) ANETONE U SIMANU	6366
MILITARY POLICE INVESTIGATOR	SGT JIMMIE ATKINSON	1654
SECURITY CONTRACT SERVICE REP	MR JAMES AVERY	1654

STAFF

CARGO OPERATIONS DIVISION
 MTEA-GUL-OP

CHIEF	MR WILLIAM LANDWEHR	1123
CARGO CONTROL	MR DAVID WARREN	1116
OPERATIONS NCO	SFC TERRY MOORE	1124
WINSITE	MS RATHLEEN G BAILLON (ALT)	6156

TRAFFIC MANAGEMENT DIVISION
 MTEA-GUL-TM

CHIEF	MR WESLEY A JACOMINO JR	1126
IMPORT/EXPORT	MS OLA MAE VIRROA	1130
QUALITY ASSURANCE	MS CAROLYN BREWER	5210
CONTRACTOR PAYMENT	MS JANE ORLOPP	1601
PERSONAL PROPERTY	MS COUELINE MAYO	5229
POV	MS SHERYL VAN SYCOC	1218
EQUIPMENT INSPECTOR	MR MARCUS MILLER	1744

FREQUENTLY USED NUMBERS

FACSIMILE (DEX) MACHINES	548 5268
MTEA GUL TM	548 5293
MTEA GUL OP	42 6902
MTEA GUL C	948 5188
GUARD OFFICE (AFTER DUTY HOURS)	581 0236
STAFF DUTY OFFICER (PAGING SERVICE)	581 0250
AIR FORCE WATERPORT	948 5283
LOGISTICS OFFICE (IMPLD)	948 1111
EMERGENCY OPERATIONS CENTER (EOC)	948 1111
SECURE TELEPHONE UNIT (STU) (DDP/GGCS)	947 6770
MESSAGE RECEIVING RECORDER (NON DUTY HRS WEEKENDS/HOLIDAYS)	948 1895

SUBORDINATE

BEAUMONT DETACHMENT
 MTEA-GUL-B

COMMANDER
 MS ROBIN MILLER

TRANSPORTATION SPECIALIST
 MR KENNETH J PENDERGRAFT

AUTOVON 863 7210
 (409) 835 3471
 DEX # (409) 835 3586

1255 MAIN ST
 BEAUMONT TX 77701
 TX 77704-0043
 BEAUMONT TX 77704-0043

MOBILE DETACHMENT
 MTEA-GUL-M

COMMANDER
 CPT DANIEL V SULKA

MARINE CARGO SPECIALIST
 MR FABIAN HOBBS

AUTOVON 436 2830
 (205) 438 6680
 DEX # (205) 432 4005

(EXPRESS DELIVERIES)
 PIER C NORTH
 ALABAMA STATE DOCKS
 MOBILE AL 36601
 (CORRESPONDENCE)
 P.O. BOX 2725
 MOBILE AL 36652 2725

GRANITE CITY POV PROCESSING CENTER
 MTEA-GUL-GC

COMMANDER
 CAPT LLOYD M SOETERS

TRANSPORTATION SPECIALIST
 MS JAMES L GUFFEY

MOVEMENT SPECIALIST
 SSG JOHN LEONARD

AUTOVON 882 4606/4616
 COM # (618) 452 4606/4616
 DEX # 892 4654

CHARLES MELVIN PRICE SUPPORT CENTER
 BUILDING 400
 GRANITE CITY IL 62040 1801

TERMINAL SERVICES CONTRACTOR

RYAN WALSH STEVEDORING CO, INC
 TERMINAL MANAGER 948 1632
 MR THOMAS ARATA
 ASSISTANT TERMINAL MANAGER 948 5127
 MR DIAGO DUQUE
 ASSISTANT ADMINISTRATOR 948 1359
 MR J P WRIGHT

8 SEPTEMBER 1989
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APPENDIX B

NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

1083M2-1

EPA U.S. ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law (Section 3010 of the Resource Conservation and Recovery Act).

INSTALLATION'S EPA I.D. NO.	GSA: LA-2135-99314
I. NAME OF INSTALLATION	NAME: PRESS HARD WHEN FILLING IN NAME & ADDRESS.
II. INSTALLATION MAILING ADDRESS	MTMC Gulf Outport Facilities Division
III. LOCATION OF INSTALLATION	STREET ADDRESS: 4400 Dauphine Street CITY, STATE, & ZIP CODE: New Orleans, Louisiana 70146

FOR OFFICIAL USE ONLY

COMMENTS

C	
---	--

INSTALLATION'S EPA I.D. NUMBER	APPROVED	DATE RECEIVED (yr., mo., & day)
FLA521359931421		

I. NAME OF INSTALLATION
U S ARMY MTMC GULF OUTPORT

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX
34400 Dauphine Street

CITY OR TOWN
New Orleans

ST. ZIP CODE
LA 70146

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER
54400 Dauphine Street

CITY OR TOWN
New Orleans

ST. ZIP CODE
LA 70146

IV. INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title)
Jones Paul Facilities Manager

PHONE NO. (area code & no.)
504-948-1301

V. OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER
U S ARMY

VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es))

F = FEDERAL M = NON-FEDERAL	F	<input type="checkbox"/> A. GENERATION	<input type="checkbox"/> B. TRANSPORTATION (complete Item VII)
		<input type="checkbox"/> C. TREAT/STORE/DISPOSE	<input type="checkbox"/> D. UNDERGROUND INJECTION

DOES NOT APPLY

VII. MODE OF TRANSPORTATION (transporters only - enter "X" in the appropriate box(es))

A. AIR B. RAIL C. HIGHWAY D. WATER E. OTHER (specify):

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your Installation's EPA I.D. Number in the space provided below.

A. FIRST NOTIFICATION B. SUBSEQUENT NOTIFICATION (complete Item C)

C. INSTALLATION'S EPA I.D. NO.

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.



ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY
(VERIFICATION)

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER

LA5-21-359-9314

INSTALLATION ADDRESS

U.S. ARMY MTMC GULF OUTPORT
4400 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70146

4400 DAUPHINE STREET
NEW ORLEANS, LOUISIANA 70146

EPA Form 8700-12B (4-80)



APPENDIX C

**REGISTRATION FOR UNDERGROUND STORAGE TANKS
NEW ORLEANS MOT**

180900 \$60

Chom...x

10PE000647

REGISTRATION FOR UNDERGROUND STORAGE TANKS

STATE OF LOUISIANA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 OFFICE OF SOLID AND HAZARDOUS WASTE
 UNDERGROUND STORAGE TANK PROGRAM
 P O BOX 44274 BATON ROUGE, LA 70804-4274

RECEIVED BY STATE USE ONLY 180900
 ID NUMBER 36 0260915
 APR 23 1986 DATE RECEIVED 4/23/86 12:00
 DATE CHECKED 8-5-86
 PROTECTION DIVISION BY 4/3 / JLB

GENERAL INFORMATION

Registration is required by State and Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by the Louisiana Environmental Quality Act, L.R.S. 30:1051 et seq, as amended.

The primary purpose of this registration program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records or in the absence of such records, your knowledge, belief or recollection.

Who Must Register? The Louisiana Environmental Quality Act, L.R.S. 30:1051 et seq as amended requires that unless exempted, owners of underground tanks that store regulated substances must notify the Louisiana Department of Environmental Quality of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of regulated substances and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing 1. gasoline, used oil, or diesel fuel and 2. industrial solvents, pesticides, herbicides, or fumigants.

NOTE: Underground storage tanks of less than 500 gallon capacity which are required to be registered by the Environmental Protection Agency, shall likewise register with the state, however, these tanks are exempt from Louisiana fees and regulations.

What Tanks Are Excluded? Tanks excluded from Louisiana registration are:

1. farm or residential tanks with a capacity of less than 500 gallons used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968 or the Hazardous Liquid Pipeline Safety Act of 1979 or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds or lagoons;
6. storm water or waste water collection systems;
7. flow through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, masonry work, drift shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The registration requirements apply to underground storage tanks that contain regulated substances. This includes 1) any substance defined in section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (but not including any substance regulated as a hazardous waste under Subtitle C of the Solid Waste Disposal Act as amended by RCRA) and 2) petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where to Register? Completed registration forms should be sent to the address given at the top of this page.

When to Register? Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must register by May 8, 1986. Owners who bring underground storage tanks into use after May 8, 1986, must register within 30 days of bringing the tanks into use.

Registration Fee: The owners of operational or non operational underground storage tanks containing regulated substances must submit with the registration form the payment of the registration fee for each underground storage tank according to the following schedule:

1. For any substance defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (but not including any substance regulated as a hazardous waste under Subtitle C of the Solid Waste Disposal Act as amended by RCRA)—\$25.00 per tank.
2. For petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute)—\$15.00 per tank.

In no case shall one owner be required to pay an aggregate registration fee in excess of one thousand dollars (\$1,000.00). In addition to the registration fee, an annual monitoring and maintenance fee is required commencing May 8, 1987 in accordance with the regulations.

Penalties: Any owner who knowingly fails to register or submits false information shall be subject to a civil penalty not to exceed \$25,000 per day for each tank for which registration is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except signature in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form. Maxe checks payable to the Louisiana Department of Environmental Quality.

Indicate number of continuation sheets attached

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
 MIMC GULF OUTPORT

Street Address
 4400 DAUPHINE STREET

Parish
 ORLEANS

City State Zip Code
 NEW ORLEANS LOUISIANA 70140-6000

Area Code Phone Number
 (504) 942-6196

Type of Owner (Mark all that apply)

Current State or Local Gov't Private or Corporate
 Former Federal Gov't (GSA facility ID no.) Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here)

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable

Parish

City (nearest) State Zip Code

Latitude _____ (deg) _____ (min) _____ (sec)
 Longitude _____ (deg) _____ (min) _____ (sec)

Indicate number of tanks at this location Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here) Job Title Area Code Phone Number

MICHAEL A. ARNONE Supervisory Civil Engineer Technician (504) 9'2-6196

IV. TYPE OF REGISTRATION

Mark Box here only if this is an amended or subsequent registration for this location

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative Signature Date Signed

Michael A. Arnone 3/12/86

CONTINUE ON REVERSE SIDE

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)					
Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	Tank No. 5
1. Status of Tank (Mark all that apply <input checked="" type="checkbox"/>) Currently in Use Temporarily Out of Use Permanently Out of Use Brought into Use after 5/8/86	16699 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	16700 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	16701 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	16702 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. Age (Years)	Approx. 6 Yrs.	Approx. 6 Yrs.	Approx. 6 Yrs.		Approx. 40 Yrs.
3. Total Capacity (Gallons)	1000	1000	1000		1000
4. Is Tank and/or Piping Leaking? (YES or NO)	NO	NO	NO		NO
5. Material of Construction (Mark one <input checked="" type="checkbox"/>) Steel Concrete Fiberglass Reinforced Plastic Unknown Other. Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
6. Internal Protection (Mark all that apply <input checked="" type="checkbox"/>) Cathodic Protection Interior Lining (e.g. epoxy resins) None Unknown Other. Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____
7. External Protection (Mark all that apply <input checked="" type="checkbox"/>) Cathodic Protection Painted (e.g. asphaltic) Fiberglass Reinforced Plastic Coated None Unknown Other. Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
8. Piping (Mark all that apply <input checked="" type="checkbox"/>) Rigid Metal Conduit Bare Steel Galvanized Steel Fiberglass Reinforced Plastic Cathodically Protected Unknown Other. Please Specify _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
9. Substance Currently or Last Stored In Greatest Quantity by Volume (Mark all that apply <input checked="" type="checkbox"/>) a. Empty b. Petroleum Diesel Kerosene Gasoline (including alcohol blends) Used Oil Other. Please Specify _____ c. Hazardous Substance Please Indicate Name of Principal CERCLA Substance _____ OR Chemical Abstract Service (CAS) No. _____ Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances d. Unknown	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> MIX _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> MIX _____
10. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo / yr) b. Estimated quantity of substance remaining (gal) c. Mark box <input checked="" type="checkbox"/> if tank was filled with inert material (e.g. sand, concrete)	 <input checked="" type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input checked="" type="checkbox"/>
11. Additional Information (for replacement tanks installed after January 1, 1974) a. Is the tank currently in use a replacement tank for one previously in use at the same site? (YES or NO) b. When was the previous tank removed? (mo / yr) c. What was the age of the previous tank at time of removal? (years) d. Was the tank and/or piping previously removed found to be leaking? (YES or NO) e. If so, was contamination of the regulated substance removed from the soil and/or ground water? (YES or NO)	NO IN / 80s Approx. 40 Yrs YES YES	NO IN / 80s / YES YES	NO IN / 80s / YES YES	 	NO / /

NOTE: Tanks 1, 2, and 3, contract numbers were DACA-80-B-0099 OR DACA63-80-C-0072.



DEPARTMENT OF THE ARMY
MILITARY TRAFFIC MANAGEMENT COMMAND
GULF OUTPORT
4400 DAUPHINE STREET, BUILDING 601-A
NEW ORLEANS, LOUISIANA 70146-6000

REPLY TO
ATTENTION OF:

April 22, 1986

Office of Facility Engineer

SUBJECT: Registration for Underground Storage Tanks

RECEIVED BY

APR 23 1986

GROUND WATER
PROTECTION DIVISION

Louisiana Department
Environmental Quality
Office of Solid & Hazardous Waste
Underground Storage Tank Program
Post Office Box 44274
Baton Rouge, Louisiana 70804-4274

Dear Sirs:

As required by your agency, Form for Registration for Underground Storage Tanks has been completed and is submitted for processing. Purchase Order No. DAHC21-86-M-4122 is enclosed to cover fees.

MTMC Gulf Outport has four 1000-gallon underground storage tanks used for petroleum products.

If there should be any questions, point of contact this Command is Michael J. Jambois, telephone (504) 942-6195.

Sincerely,

A handwritten signature in cursive script, reading "Michael A. Arnone".

Michael A. Arnone
Chief, Office of Facility Engineer

Enclosures

Copy Furnished:

MTMC, Eastern Area, ATTN: MTE-LOE
MTMC, Western Area, ATTN: MTW-ENG

REQUEST FOR QUOTATIONS NO. _____
 RETURN COPIES OF THIS QUOTE BY _____
 (THIS IS NOT AN ORDER See DD Form 1155)

ORDER FOR SUPPLIES OR SERVICES

PAGE: 1 OF 3

CONTRACT/PURCH ORDER NO. **D48021-06-A-010** 2 DELIVERY ORDER NO. _____ 3 DATE OF ORDER **86 MAR 19** 4 REQUISITION/PURCH REQUEST NO. **W42VAC-6078-0003**

ISSUED BY: **Contract Administrator**
MHC Gulf Outport
4400 Dauphine Street
New Orleans, LA 70146-6000

7 ADMINISTERED BY (if other than 6), CODE _____ 8 DELIVERY FOB DEST OTHER (See Schedule if other)

CONTRACTOR/QUOTER CODE **L0752** FACILITY CODE **1601** 10 DELIVER TO FOB POINT BY **SEE BELOW** 11 CHECK IF BUSINESS IS SMALL SMALL DISADVANTAGED WOMEN OWNED

NAME AND ADDRESS: **Louisiana Dept. of Environmental Quality**
Office of Solid & Hazardous Waste
Underground Storage Tank Program
P.O. Box 44274
Baton Rouge, LA 70804-4274

12 DISCOUNT TERMS **NET** 13 MAIL INVOICES TO **5 COPIES - SEE BLOCK #15**

14 SHIP TO CODE _____ 15 PAYMENT WILL BE MADE BY CODE _____

Commander
MHC Gulf Outport
4400 Dauphine Street
New Orleans, LA 70146-6000

MHC Eastern Area
ATTN: MTR-RMF-P&E
MILITARY OCEAN TERMINAL
Bayonne, NJ 07002-5302

MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER

9 DELIVERY This delivery order is subject to instructions contained on this side of form only and is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract

PURCHASE Reference your _____ furnish the following on terms specified herein, including, for 8, purchase General Provisions of Purchase Order on DD Form 1155 (EXCEPT CLAUSE NO 12 APPLIES ONLY IF THIS BOX IS CHECKED, AND NO 14 IF THIS BOX IS CHECKED), special provisions _____ and delivery as indicated. This purchase is negotiated uncompetitively on _____

10 USC 2304(a)(3) or as specified in the schedule if within the U.S. its possessions or Puerto Rico, if otherwise under 2304(a)(6)

If checked, Additional General Provisions apply. Supplier shall sign "Acceptance" on DD Form 1155 and return _____ copies

7 ACCOUNTING AND APPROPRIATION DATA/LOCAL USE
21 X 4992.0351 35 S28 113
1601 - 5100 - 60705 - 581

18 ITEM NO	19 SCHEDULE OF SUPPLIES SERVICES	20 QUANTITY ORDERED ACCEPTED *	21 UNIT	22 UNIT PRICE	23 AMOUNT
001	REGISTRATION FEE FOR UNDERGROUND STORAGE TANKS, FROM 08 MAY 86 THROUGH 07 MAY 87.	4	EA	15.00	60.00
<p>RECEIVED BY</p> <p>APR 23 1986</p> <p>GROUND WATER PROTECTION DIVISION</p>					

* If quantity accepted by the Government is same as quantity ordered, indicate by ✓ mark. If different, enter actual quantity accepted below quantity ordered and encircle.

24 UNITED STATES OF AMERICA *Kathleen R. Doran* 86 MAR 19 25 TOTAL **\$60.00**

BY **KATHLEEN R. DORAN** CONTRACTING/ORDERING OFFICER

26 QUANTITY IN COLUMN 20 HAS BEEN INSPECTED RECEIVED ACCEPTED AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

27 SHIP NO _____ 28 DO VOUCHER NO _____ 30 INITIALS _____

DATE _____ SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE _____

31 PAYMENT COMPLETE PARTIAL FINAL 32 PAID BY _____ 33 AMOUNT VERIFIED CORRECT FOR _____

35 I certify this account is correct and proper for payment. DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____

34 CHECK NUMBER _____ 35 BILL OF LADING NO _____

37 RECEIVED AT _____ 38 RECEIVED BY _____ 39 DATE RECEIVED _____ 40 TOTAL CONTAINERS _____ 41 S/R ACCOUNT NUMBER _____ 42 S/R VOUCHER NO _____

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<p style="text-align: center;">MODIFY PURCHASE ORDER AS FOLLOWS:</p> <p><u>Delete</u> General Provision 3, Payments, in its entirety.</p> <p><u>Substitute</u> the following General Provision 3, Invoices:</p> <p>(a) An invoice is a written request for payment under the contract for supplies delivered or for services rendered. In order to be proper, an invoice must include as applicable the following:</p> <ul style="list-style-type: none"> (1) Invoice date. (2) Name of contractor. (3) Contract number (including order number, if any, contract line item number, contract description of supplies or services, quantity, contract unit of measure and unit price, and extended total. (4) Shipment number and date of shipment (Bill of Lading number and weight of shipment will be shown for shipments on Government Bills of Lading). (5) Name and address to which payment is to be sent (which must be the same as that in the contract or on a proper notice of assignment). (6) Name (where practicable), title, phone number and mailing address of person to be notified in event of a defective invoice, and (7) Any other information or documentation required by other provisions of the contract (such as evidence of shipment). Invoices shall be prepared and submitted in quadruplicate (one copy shall be marked, "Original unless otherwise specified."). <p>(b) For purposes of determining if interest begins to accrue under the Prompt Payment Act (Public Law 97-177).</p> <ul style="list-style-type: none"> (1) A proper invoice will be deemed to have been received when it is received by the office designated in the contract for receipt of invoices and acceptance of the supplies delivered or services rendered has occurred. (2) Payment shall be considered made on the date on which a check for such payment is dated. (3) Payment terms (e.g. "NET 20") offered by the contractor will not be deemed, "required payment dates", and (4) The following periods of time will not be included: <ul style="list-style-type: none"> a. After receipt of an improper invoice and prior to notice of any defect or impropriety, but not to exceed 15 days (or any lesser period established by this contract), and b. Between the date of a notice of any defective or impropriety and the date a proper invoice is received. When the notice is in writing, it shall be considered made on the date shown on the notice." 				

RECEIVED BY

APR 23 1986

GROUND WATER
PROTECTION DIVISION

APPENDIX D

CERCLIS LISTING FOR NEW ORLEANS

CECLIS ALPHABETICAL LISTING BY STATE
 CERCLIS VERSION 2.0

EPA ID NO.	SITE NAME	SITE LOCATION	CITY	COUNTY
LAD981356997	AGRICULTURE STREET LANDFILL	4107 TOURO STREET	NEW ORLEANS	ORLEANS
LAD981394417	ARCO INDUSTRIAL GASES	15200 INTRACASTAL DR	NEW ORLEANS	ORLEANS
LAD982293345	ALGIERS LANDFILL	LA HWY 476	NEW ORLEANS	ORLEANS
LAD982622227	AMERICAN SMIT & LEAD CO	ST JOSEPH & CONSTANCE ST	NEW ORLEANS	ORLEANS
LAD982823352	ATLAS ERECTOR & CRANE RENTAL	11600 OLD GENTILLY	NEW ORLEANS	ORLEANS
LAD982833658	BIMOLECULAR INC	4031 JEFFERSON HWY	NEW ORLEANS	ORLEANS
LAD982835156	BOEING CO THE	OLD GENTILLY ROAD	NEW ORLEANS	ORLEANS
LAD982821257	BROWNING-FERRIS, INC - LANDFILL	6629 FLORIDA AVE.	NEW ORLEANS	ORLEANS
LAD982821775	BROWNING-FERRIS TRIP-CRISBERT ACRES LDF	6699 FLORIDA AVENUE	NEW ORLEANS	ORLEANS
LAD9828155926	CITIBULL CEMENT CORPORATION	2315 FRANCE STREET	NEW ORLEANS	ORLEANS
LAD9828250776	CONWAY TRUCK SERVICE	1132 ELYSIAN FIELDS	NEW ORLEANS	ORLEANS
LAD9828081179	FLORIDA AVENUE WARE SITE	FLORIDA AVENUE	NEW ORLEANS	ORLEANS
LAD98283782413	GENERAL ELECTRIC CO	1115 DE ARMAS ST	NEW ORLEANS	ORLEANS
LAD9828281817	GENTILLY LANDFILL	1720 OLD GENTILLY RD	NEW ORLEANS	ORLEANS
LAD9828169653	INDUSTRIAL CANAL	CANAL STREET	NEW ORLEANS	ORLEANS
LAD98281224654	LIQUID AIR CORP	P.O. BOX 26367	NEW ORLEANS	ORLEANS
LAD9828114567	MAR-MARTI HERITTA AIRSPACE	13600 OLD GENTILLY RD	NEW ORLEANS	ORLEANS
LAD9828296126	NATIONAL OIL SERVICE OF LOUISIANA	14590 INTRACASTAL DR	NEW ORLEANS	ORLEANS
LAD98282947509	RECOVERY 1	17005 CHEF HENRIEUR HWY	NEW ORLEANS	ORLEANS
LAD98282824351	RHEEM MANUFACTURING COMPANY	4901 JEFFERSON HWY	NEW ORLEANS	ORLEANS
LAD9828169871	SMALL	SEA ISLE	NEW ORLEANS	ORLEANS
LAD98282817352	SOUTH RIVER INDUSTRIAL RESEARCH CENTER	1100 ROBERT E. LEE BLVD	NEW ORLEANS	ORLEANS
LAD9828155657	THOMPSON-HAWARD CHEMICAL COMPANY	7700 EARHARD BLVD.	NEW ORLEANS	ORLEANS
LAD9828282249	US NAVY NEW ORLEANS NAVAL AIR STATION	BLDG 50, CUDE 70	NEW ORLEANS	ORLEANS
LAD98282822664	US NAVY NEW ORLEANS NAVAL SUPPORT ACTION	2600 GEN MEYER AVE BLDG 101	NEW ORLEANS	ORLEANS



APPENDIX E

**REGISTERED WELLS WITHIN ORLEANS PARISH
(EXCERPTS)**



LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
P.O. Box 94245, Baton Rouge, Louisiana 70804-9245

(504) 379-1434

NEIL L. WAGONER, P.E.
SECRETARY

November 8, 1989

BUDDY ROEMER
GOVERNOR

Mr. Tim Farrell
Roy F. Weston, Inc.
Goshen Office
Weston Way
West Chester, PA 19380

Re: Water Well Listing
User Supplied Coordinates
N 30 00' 00"; S 29 57' 00"
E 90 01' 00"; W 90 05' 00"
Orleans Parish

Dear Mr. Farrell:

As per your request of October 30, 1989, we are herewith enclosing the following for your information:

- 1) A computer printout listing registered water wells and pertinent information about the wells
- 2) An explanation of the codes used on the printout
- 3) A library copy of W.R. Bulletin No. 9
- 4) A library copy of W.R. Basic Records Report No. 11
- 5) A library copy of G.S. Water-Supply Paper 1296

Please be advised that this list does not include every possible water well which may have been drilled within the above-referenced coordinates. The list represents only those wells which have been registered with this Department or scheduled by the U.S. Geological Survey and does not include those which are presently being processed.

These library copies of reports are loaned to you on the condition that they be returned to this Department as soon as possible.

Mr. Timothy M. Farrell
November 8, 1989
Page - 2 -

This information is made available through our cooperative water resources program with the U.S. Geological Survey.

If we may be of any further assistance, please do not hesitate to contact this office.

Very truly yours,



Z. "Bo" Bolourchi, P.E.
Chief, Water Resources Section

ZB:cec
ATTACHMENT

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
 EATON ROUCE

WELL IDENTIFICATION NUMBER	REGISTERED WATER WELLS IN ORLEANS	PARISH	---WITHIN GIVEN COORDINATES	PAGE				
	SOUTH- 295700 EAST- 900100 WEST- 900500							
	OWNERS NAME	WELL NUMBER	WELL DEPTH					
295705090041501	HIBERNIA BANK	1	757	ABANDONED	--	0138		L C
295705090041502	HIBERNIA BANK	2	748	OTHER	-U	0138		C
295718090040901	D H HOLMES CO	3	750	ABANDONED	--	0139		C
295820090041501	JOSEPH WADDELL	6	800	ABANDONED	--	0125		C
295723090034501	JACKSON BREW CO	7	775	ABANDONED	--	0101		
295722090034701	JACKSON BREW CO	8	777	INDUSTRIAL	99	0140		L
295723090041501	N G ATHLETIC CL	9	785	PUBLIC SUPPLY	-T	1040		C
295731090011501	GARDENER-SHIPPE	11	760	ABANDONED	--	0108		C
295721090040401	AMERICAN BREW	12	780	INDUSTRIAL	99	0733		C
295715090044601	NEW ORLEANS PSI	24	790	ABANDONED	--			C
295827090013501	FLINTKOTE CO	43	750	INDUSTRIAL	99	0138		L C
295907090013101	U S ARMY	44	728	ABANDONED	--	0642		L C
295929090013501	PORT OF NEW ORL	46	700	ABANDONED	--	0543		L C
295720090040501	D H HOLMES CO	49	758	OTHER	-U	0650		L C
295828090013801	FLINTKOTE CO	52	730	INDUSTRIAL	99	0746		L C
295823090014001	FLINTKOTE CO	53		OTHER	-U			L
295723090034501	JACKSON BREW CO	54	756	INDUSTRIAL	99	0747		C
295721090040402	AMERICAN BREW	64	800	ABANDONED	--	0147		
295718090040902	D H HOLMES CO	65	750	ABANDONED	--	0147		
295805090032201	SCHWEGMANN BROS	62	727	INDUSTRIAL	99	0752		L C
295828090014201	MASONITE CORP	117	732	INDUSTRIAL	99	0257		L C
295855090012501	BULK TRANSPORT	118	735	INDUSTRIAL	99	0758		
295714090041401	NEW ORLEANS	120	630	ABANDONED	--	0154		L
295844090014101	LONE STAR CEMEN	129	726	INDUSTRIAL	99	0551		L
295738090021001	REUTHER SEAFOOD	130	736	PUBLIC SUPPLY	-C	0357		L

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

BATON ROUGE

WELL IDENTIFICATION NUMBER	REGISTERED WATER WELLS IN ORLEANS	PARISH	--WITHIN GIVEN COORDINATES	DATE COMPLETED	PUMPING RATE (GPD)	AVAILABLE INFORMATION	PAGE
295923090032404	AMOCO OIL		MONITOR	1086		L W	3
295917090022301	AMOCO OIL		MONITOR	1086		L W	
295917090022302	AMOCO OIL		MONITOR	1086		L W	
295917090022303	AMOCO OIL		MONITOR	1086		L W	
295917090022304	AMOCO OIL		MONITOR	1086		L W	
295928090025701	AMOCO OIL		MONITOR	1086		L W	
295922090042201	TEXACO		MONITOR	1188		L W	
295922090042202	TEXACO		MONITOR	1188		L W	
295922090042203	TEXACO		MONITOR	1198		L W	
295953090020601	REG TRANSIT AUT		MONITOR	0189		L	
295953090020602	REG TRANSIT AUT		MONITOR	0189		L	
295953090020603	REG TRANSIT AUT		MONITOR	0189		L	
295953090020604	REG TRANSIT AUT		MONITOR	0189		L	
295953090020605	REG TRANSIT AUT		MONITOR	0189		L	
295953090020606	REG TRANSIT AUT		MONITOR	0189		L	
295820090032501	TOC RETAIL		MONITOR	0369		L W	
295825090025505	TOC RETAIL		MONITOR	0289		L W	
295825090025506	TOC RETAIL		MONITOR	0289		L W	
TOTAL NUMBER OF REGISTERED WATER WELLS BY AQUIFER CODE							36
-----AQUIFER--700-FOOT SAND OF NEW ORLEANS AREA-----							
295707090044001	NEW ORLEANS		ABANDONED	1061		EL	
TOTAL NUMBER OF REGISTERED WATER WELLS BY AQUIFER CODE							1
-----AQUIFER--1200-FOOT SAND OF NEW ORLEANS AREA-----							
295723090041502	UNKNOWN		DESTROYED	1237		L C	
295723090041503	N O ATHLETIC CL		PUBLIC SUPPLY	0861		EL	
TOTAL NUMBER OF REGISTERED WATER WELLS BY AQUIFER CODE							2

REGISTERED WATER WELLS IN ORLEANS PARISH --WITHIN GIVEN COORDINATES

WELL2071
 11/07/89
 NORTH- 300000 SOUTH- 295700 EAST- 900100 WEST- 900800
 IDENTIFICATION: WELL OWNERS NAME WELL NUMBER DEPTH
 NUMBER

WELL USE
 SUB USE
 PUMPING RATE(GPD)
 RATE COMPLETED
 AVAILABLE INFORMATION

-----AQUIFER-- ALL AQUIFERS-----

TOTAL NUMBER OF REGISTERED WATER WELLS IN PARISH WITHIN COORDINATES 70

**EXPLANATION OF TERMS FOR THE COMPUTERIZED
LISTING OF WATER WELLS AND HOLES WITHIN SPECIFIED COORDINATES**

- IDENTIFICATION NUMBER** - This is a unique number that includes the latitude (first six numbers), longitude (second six numbers), and a sequential number which indicates the number of this well when other nearby wells have the same latitude and longitude.
- REVISED COORDINATE** - The top number is the identification number and the bottom number is the actual latitude and longitude of the well. (This is shown only if the identification number and the actual latitude and longitude are different).
- OWNER'S NAME** - Name of the individual, person, company or agency that owns or leases the well, and operates the well.
- WELL NUMBER** - Well Number, by parish, assigned by the U.S. Geological Survey and/or DOTD.
- OWNER'S NUMBER** - Well name or number assigned by the owner to identify each well.
- WELL DEPTH** - Depth of the well, in feet, measured from bottom of the screen to the ground surface.
- WELL USE** - Main use of the well.
- WELL SUBUSE** - Subuse of the well (see attached sheet).
- DATE COMPLETED** - The month and year the well was completed and/or accepted by the owner or lessee.
- PUMPING RATE** - Average daily pumping rate (GPD) as shown on the original registration form. A blank indicates the pumping rate is unknown.
- AVAILABLE INFORMATION** - Indicates available information as follows: E, geophysical log; L, drillers log; D, drill cuttings; C, chemical analysis; B, bacteriological analysis; P, pumping test; W, water level. Available information may be obtained from the DOTD, USGS, drilling contractor and/or other sources.

DOTD'S USE AND SUB-USE COMPUTER
CODES FOR WATER WELLS AND HOLES

USE	SUB-USE
A Abandoned	- -
B Plugged	- -
C Destroyed	- -
D Dewatering	- -
E Power Generation	- -
H Domestic	- -
I Irrigation/Agriculture	- -
L Heat Pump	H H hole H S supply well
M Monitor	- - P A plugged
N Industrial	2 0 Food and kindred products 2 2 Textile mill products 2 4 Lumber & wood products 2 6 Paper & allied products 2 8 Chemicals & allied products 2 9 Petroleum refining and related industries 3 3 Primary metal industries 9 9 Other
O Observation	- 0 Multiple Purpose - P Piezometer - Q Water Quality - W Water Level
P Public Supply	- C Commercial - M Therapeutic - P Municipal - R Rural - T Institution/Government - - Other
R Recovery	- -
S Rig Supply	- -
T Test Hole	- - P A plugged
Z Other	- C Cathodic - F Fire Protection - I Inactive - R Reworked - S Standby - U Unknown - Z Other

ZB:DL:clj
Aug. 18, 1986



APPENDIX F

SPECIES SURVEY - NEW ORLEANS

1083M2-1



Virginia Van Sickle
SECRETARY

DEPARTMENT OF WILDLIFE AND FISHERIES
LOUISIANA NATURAL HERITAGE PROGRAM

Buddy Roemer
GOVERNOR

P.O. Box 98000
Baton Rouge, LA 70898

8 November 1989

Tim Farrell
R. F Weston Co.-Goshen Office
Weston Way
West Chester, PA 19380

Dear Mr. Farrell:

As per your request of 3 November, we have examined our database for any known occurrences of rare, threatened or endangered species within 3 miles of the proposed military ship loading port at the junction of the Mississippi River Gulf Outlet and the main channel of the Mississippi River. We do not have any records of sensitive species near the project site; however, a thorough survey has, to our knowledge, never been conducted.

We also conducted a search of our database for any records of sensitive species within the Mississippi River channel (i.e., between the levees and within the delta) from New Orleans to the mouth of the river. We have two records of the pallid sturgeon (Scaphirhynchus albus) from the main channel. This species has been proposed for federal listing. We also have records of another apparently rare fish, the saltmarsh topminnow (Fundulus jenkinsi), from the deltaic marshes. Finally, there are at least seven waterbird nesting colonies in this stretch of the river, also in the deltaic marshes.

I have also enclosed a list of all vertebrates documented from Orleans Parish. Any of those species could potentially be found at the project site. Refer to the enclosed list of LNHP-listed species to determine if any sensitive species could possibly be found at the site.

I hope these data are useful. If we can be of any further assistance, do not hesitate to contact us at the above address or (504) 765-2821.

Sincerely,



Gary Lester
LNHP-Coordinator

enclosures

GDL:RPM:rpm

CC: Fred Dunham

3 February 1989

LOUISIANA NATURAL HERITAGE PROGRAM
SPECIAL ANIMALS

Scientific Name	Common Name	SRANK	GRANK	Scientific Name	Common Name	SRANK	GRANK
INVERTEBRATES							
<i>Dubiraphia parva</i>	little riffle beetle	S1S3	G1G3	<i>No'ropis potteri</i>	chub shiner	S3	G5
<i>Brachycercus flavus</i>	yellow brachycercus mayfly	SH	GH	<i>Notropis sabiniae</i>	Sabine shiner	S4	G4
<i>Leuctra szczytkoi</i>	Schoolhouse Springs stonefly	S1	G1G3	<i>Notropis signipinnis</i>	flagfin shiner	SU	G5?
<i>Alasmidonta marginata</i>	elktoe (mussel)	S?	G5	<i>Notropis welaka</i>	bluenose shiner	S3	G4
<i>Ellipsaria lineolata</i>	butterfly (mussel)	S?	G4	<i>Notropis whipplei</i>	steelcolor shiner	S2	G5
<i>Elliptio crassidens</i>	elephant-ear (mussel)	S2S3	G4	<i>Phenacobius mirabilis</i>	suckermouth minnow	S3	G5
<i>Elliptio dilatata</i>	spike (mussel)	S?	G5	<i>Carpiodes cyprinus</i>	quillback	S2	G5
<i>Fusconia ebena</i>	ebonyshell (mussel)	S1S3	G3	<i>Carpiodes velifer</i>	highfin carpsucker	S2S3	G3G4
<i>Lampsilis ornata</i>	southern pocketbook (mussel)	S1?	G1?	<i>Cycleptus elongatus</i>	blue sucker	S2	G5
<i>Lasmigona complanata</i>	white heelsplitter (mussel)	S?	G5	<i>Hoxostoma carinatum</i>	river redbhorse	S2	G4
<i>Ligumia recta</i>	black sandshell (mussel)	S?	G?	<i>Noturus flavus</i>	stonecat	SA	G5
<i>Margaritifera hembeli</i>	Louisiana pearlshell (mussel)	S1	G1	<i>Noturus munitus</i>	frecklebelly madtom	S3	G3
<i>Obovaria jacksoniana</i>	southern hickorynut (mussel)	S1S2	G1G2	<i>Fundulus jenkinsi</i>	saltmarsh topminnow	S2S3	G3
<i>Obovaria unicolor</i>	Alabama hickorynut (mussel)	S1S3	G2G3	<i>Fundulus euryzonus</i>	broadstripe topminnow	S2	G2
<i>Pleurobema cordatum</i>	Ohio pigtoe (mussel)	S?	G4	<i>Ammocrypta asprella</i>	crystal darter	S3	G3
<i>Potamilius capax</i>	fat pocketbook (mussel)	S?	G1	<i>Ammocrypta clara</i>	western sand darter	S2	G3
<i>Potamilius inflatus</i>	inflated heelsplitter (mussel)	S1	G1	<i>Etheostoma caeruleum</i>	rainbow darter	S3	G5
<i>Potamilius laevis</i>	pink papershell (mussel)	S?	G5	<i>Percina lenticula</i>	freckled darter	S2	G2
<i>Quadrula nodulata</i>	wartyback (mussel)	S1S3	G3	<i>Percina macrolepida</i>	bigscale logperch	S1S2	G4
<i>Strophitus subvexus</i>	southern creekmussel	S1	G1	<i>Percina uranidea</i>	stargazing darter	SA	G3
<i>Strophitus undulatus</i>	squawfoot (mussel)	S?	G5	<i>Percina sp 8</i>	(from LA)	S?	G?
FISH							
<i>Acipenser fulvescens</i>	lake sturgeon	S1	G3	<i>Ambystoma tigrinum</i>	eastern tiger salamander	S1	G5
<i>Acipenser oxyrinchus</i>	Atlantic sturgeon	S1	G3	<i>Amphituma</i>	two-toed amphituma	S2	G5
<i>Scaphirhynchus albus</i>	pallid sturgeon	S1?	G1	<i>Eurycea cirrigera</i>	southern two-lined salamander	S3?	G5?
<i>Polyodon spathula</i>	paddlefish	S3	G4	<i>Hemidactylium scutatum</i>	four-toed salamander	S1	G5
<i>Alosa alabamae</i>	Alabama shad	S2S3	G4	<i>Plethodon serratus</i>	southern redback salamander	S1	G5
<i>Camptostoma anomalum</i>	central stoneroller	S2	G5	<i>Plethodon websteri</i>	Webster's salamander	S1	G3G
<i>Ericymba buccata</i>	silverjaw minnow	S3S4	G5	<i>Pseudotriton montanus</i>	gulch coast mud salamander	S1	G5
<i>Hybopsis gelida</i>	sturgeon chub	SA	G3	<i>Pseudotriton ruber</i>	southern red salamander	S1	G5
<i>Hybopsis gracilis</i>	flathead chub	SA	G4	<i>Pseudacris ornata</i>	ornate chorus frog	SH	G5
<i>Hybopsis meeki</i>	sicklefin chub	SA	G2	<i>Pseudacris streckeri</i>	Strecker's chorus frog	S1	G5?
<i>Notropis boops</i>	bigeye shiner	S2	G5	<i>Rana areolata sevoosa</i>	dusky crawfish frog	S2	G4T2
<i>Notropis camurus</i>	bluntnose shiner	S3	G5				
<i>Notropis hubbsi</i>	bluehead shiner	S2	G3				

FISH cont.

AMPHIBIANS

Scientific Name	Common Name	SRANK	GRANK	Scientific Name	Common Name	SRANK	GRANK
REPTILES							
<i>Caretta caretta</i>	loggerhead	S1	G3	<i>Elanoides forficatus</i>	American Swallow-tailed Kite	S1	G5
<i>Chelonia mydas</i>	green turtle	SH	G3	<i>Elanus caeruleus</i>	Black-shouldered Kite	S1	G5
<i>Eretmochelys imbricata</i>	hawksbill	SH	G37	<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G3
<i>Lepidochelys kempii</i>	Kemp's ridley	S1	G1	<i>Accipiter cooperii</i>	Cooper's Hawk (nesting)	S1	G4
<i>Macrochelys temminckii</i>	alligator snapping turtle	S37	G37	<i>Buteo platypterus</i>	Broad-winged Hawk (nesting)	S3	G5
<i>Dermodochelys coriacea</i>	leatherback	SH	G3	<i>Aquila chrysaetos</i>	Golden Eagle	S1	G4
<i>Graptemys geographica</i>	map turtle	SU	G5	<i>Polyborus plancus</i>	Crested Caracara	S1	G5
<i>Graptemys oculifera</i>	ringed map turtle	S2	G2	<i>Falco peregrinus</i>	Peregrine Falcon	S2	G3
<i>Graptemys pulchra</i>	Alabama map turtle	S3	G4?	<i>Laterallus jamaicensis</i>	Black Rail	S27	G3G4
<i>Malaclemys terrapin</i>	diamond back terrapin	S2	G5	<i>Grus canadensis</i>	Sandhill Crane	S1	G5
<i>Terrapene ornata</i>	ornate box turtle	S2	G5	<i>Grus americana</i>	Whooping Crane	SH	G1
<i>Sternotherus minor</i>	stripeneck musk turtle	S1	G5	<i>Charadrius alexandrinus</i>	Snowy Plover	S27	G47
<i>Gopherus polyphemus</i>	gopher tortoise	S1	G2	<i>Charadrius melodus</i>	Piping Plover	S2	G2
<i>Trionyx muticus calvatus</i>	Gulf Coast smooth softshell	S3	G5747	<i>Haematopus palliatus</i>	American Oystercatcher	S1	G5
<i>Ophisaurus ventralis</i>	eastern glass lizard	S37	G5	<i>Numenius borealis</i>	Eskimo Curlew	SH	G1
<i>Eumeces septentrionalis</i>	southern prairie skink	S1	G5	<i>Sterna nilotica</i>	Gull-billed Tern	S2	G5
<i>Crotaphis amoenus vermis</i>	western worm snake	S37	G575	<i>Sterna caspia</i>	Caspian Tern (nesting)	S3	G5
<i>Coluber constrictor</i>	tan racer	SU	G577	<i>Sterna antillarum</i>	Least Tern	S2	G4
<i>etheridgei</i>				<i>Sterna antillarum</i>	Interior Least Tern	S1	G472
<i>Farancia erythrogramma</i>	rainbow snake	S27	G5	<i>athalassos</i>			
<i>Amphipeltis calligaster</i>	mole kingsnake	S3	G577	<i>Sterna fuscata</i>	Sooty Tern	S1	G5
<i>rhombomaculata</i>				<i>Zenaida asiatica</i>	White-winged Dove	S3	G5
<i>Pituophis melanoleucus</i>	pine snake	S3	G5	<i>Columbina passerina</i>	Common Ground-dove (nesting)	S2	G5
<i>Pituophis melanoleucus</i>	black pine snake	S1	G572	<i>Crotophaga sulcirostris</i>	Groove-billed Ani	S3	G5
<i>lodingi</i>				<i>Asio flammeus</i>	Short-eared Owl	S1	G5
<i>Pituophis melanoleucus</i>	Louisiana pine snake	S3	G573	<i>Picoides borealis</i>	Red-cockaded Woodpecker	S2	G2
<i>ruthveni</i>				<i>Campophilus principalis</i>	Ivory-billed Woodpecker	SH	G1
<i>Rhadinana bicivilata</i>	pine woods snake	S2	G47	<i>Empidonax traillii</i>	Willow Flycatcher (nesting)	S1	G5
<i>Micrurus fulvius fulvius</i>	eastern coral snake	S3	G577	<i>Eremophila alpestris</i>	Horned Lark (nesting)	S2S3	G5
<i>Crotalus adamanteus</i>	eastern diamondback rattlesnake	S1	G5	<i>Sitta carolinensis</i>	White-breast Nuthatch	S3	G5
BIRDS							
<i>Pelecanus erythrorhynchos</i>	American White Pelican	S3	G3	<i>Vireo bellii</i>	Bell's Vireo (nesting)	S1	G5
<i>Pelecanus occidentalis</i>	Brown Pelican	S1	G5	<i>Vireo gilvus</i>	Warbling Vireo (nesting)	S1	G5
<i>Egretta rufescens</i>	Reddish Egret	S2	G4	<i>Vermivora bachmanii</i>	Bachman's Warbler	SH	G1
<i>Plegadis falcinellus</i>	Glossy Ibis	S2	G5	<i>Dendroica petechia</i>	Yellow Warbler (nesting)	SU	G5
<i>Ajaja ajaja</i>	Roseate Spoonbill	S2	G5	<i>Helimitheros vermivorus</i>	Worm-eating Warbler (nesting)	S1	G5
<i>Cygnus buccinator</i>	Trumpeter Swan	SH	G4	<i>Seiurus motacilla</i>	Louisiana Waterthrush (nesting)	S2S3	G5
<i>Anas rubripes</i>	American Black Duck	S3S4	G4	<i>Almophila aestivalis</i>	Bachman's Sparrow (nesting)	S37	G3
<i>Pandion haliaeetus</i>	Osprey (nesting)	S2	G5	<i>Anmodramus savannarum</i>	Grasshopper Sparrow	S37	G4
				<i>Anmodramus henstrewii</i>	Henslow's Sparrow	S3	G4
				<i>Sturnella neglecta</i>	Western Meadowlark (nesting)	S7	G5

Scientific Name	Common Name	SRANK	GRANK
MAMMALS			
<i>Sorex longirostris</i>	southeastern shrew	S2?	G5
<i>Lasionycteris noctivagans</i>	silver-haired bat	S1	G5
<i>Eptesicus fuscus</i>	big brown bat	S2?	G50
<i>Marmota monax</i>	woodchuck	SA	G5
<i>Perognathus hispidus</i>	hispid pocket mouse	S2	G5
<i>Reithrodontomys humulis</i>	eastern harvest mouse	S3S4	G5
<i>Mesoplodon densirostris</i>	Blainville's beaked whale	SH	G?
<i>Ziphius cavirostris</i>	goose-beaked whale	SH	G?
<i>Physeter macrocephalus</i>	sperm whale	SH	G2
<i>Xogia simus</i>	dwarf sperm whale	SH	G?
<i>Stenella plagiodon</i>	Atlantic spotted dolphin	S3S4	G?
<i>Stenella clymene</i>	short-snouted spinner dolphin	SH	G?
<i>Stenella coeruleoalba</i>	striped dolphin	SH	G?
<i>Delphinus delphis</i>	saddle-backed dolphin	S3?	G?
<i>Pseudorca crassidens</i>	false killer whale	SH	G?
<i>Globicephala macrohynchus</i>	short-finned pilot whale	SH	G?
<i>Balaenoptera physalus</i>	finback whale	SH	G2
<i>Balaenoptera borealis</i>	sei whale	SH	G2
<i>Balaenoptera acutorostrata</i>	little piked or minke whale	SH	G5
<i>Balaenoptera musculus</i>	blue whale	SH	G2
<i>Balaenoptera edeni</i>	bride's whale	SH	G?
<i>Canis rufus</i>	red wolf	SH	GH
<i>Ursus americanus</i>	black bear	S2	G5
<i>Bassariscus astutus</i>	ringtail	S?	G5
<i>Mustela frenata</i>	long-tailed weasel	S2	G5
<i>Spilogale putorius</i>	eastern spotted skunk	S2	G5
<i>Felis concolor coryi</i>	Florida panther	SH	G4T1
<i>Trichechus manatus</i>	manatee	SA	G2?

ELEMENT RANKING

Each element is assigned a single global rank; in addition, it receives a state rank for each state in which it occurs. State ranks within each state are assigned by the state Heritage program, and the rank for any particular element may vary considerably from state to state. Global ranking is done under the guidance of the national Science Department of The Nature Conservancy.

GLOBAL ELEMENT RANKS:

- G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.
- G2 = Imperiled globally because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.
- G3 = Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range; in terms of occurrences, in the range of 21 to 100.
- G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- G6 = Of historical occurrence throughout its range, i.e., formerly part of the established biota, with the expectation that it may be rediscovered (e.g., Bachman's Warbler).
- G7 = Possibly in peril range-wide but status uncertain; need more information. NOTE: This rank should be used sparingly. Whenever possible, assign the most likely rank and add a question mark (e.g., G2?) to express uncertainty, or use a range (e.g., G2G3) to delineate the limits (range) of uncertainty.
- G8 = Believed to be extinct throughout range (e.g., Passenger Pigeon) with virtually no likelihood that it will be rediscovered.

STATE ELEMENT RANKS:

- S1 = Critically imperiled in state because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extirpation from the state.
- S2 = Imperiled in state because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extirpation from the state.
- S3 = Rare or uncommon in state (on the order of 21 to 100 occurrences).
- S4 = Apparently secure in state, with many occurrences.
- S5 = Demonstrably secure in state and essentially ineradicable under present conditions.
- SA = Accidental in state, including species (usually birds or butterflies) recorded once or twice or only at very great intervals, hundreds or even thousands of miles outside their usual range; a few of these species may even have bred on the one or two occasions they were recorded.
- SH = Of historical occurrence in the state but no recent records; may still exist. Upon verification of an extant occurrence, SH-ranked elements would typically receive an S1 rank. The SH rank is reserved for elements for which some effort has been made to relocate occurrences, rather than simply ranking all elements not known from verified extant occurrences with this rank.
- SU = Possibly in peril in state but status uncertain; need more information. NOTE: This rank is used infrequently, if the status of a species in the state is questionable a range of ranks (e.g., S1S3) is used or a question mark is added to the rank considered most appropriate (e.g., S1?).
- SX = Apparently extirpated from state.

VERTEBRATES RECORDED FROM ORLEANS PARISH

****FISH****

SPOTTED GAR
LONGBEAK GAR
SHORTNOSE GAR
ALLIGATOR GAR
AMERICAN EEL
GIZZARD SHAD
THREADFIN SHAD
REDFIN PICKEREL
CHAIN PICKEREL
GOLDFISH
GOLDEN SHINER
RIVER CARPSUCKER
CREEK CHUBSUCKER
LAKE CHUBSUCKER
SMALLMOUTH BUFFALO
BIGMOUTH BUFFALO
BLACK BUFFALO
SPOTTED SUCKER
BLACKTAIL REDHORSE
BLACK BULLHEAD
PIRATE PERCH
YELLOW BULLHEAD
CHANNEL CATFISH
FLATHEAD CATFISH
GOLDEN TOPMINNOW
SALTMARSH TOPMINNOW
BLACKSTRIPE TOPMINNOW
BLACKSPOTTED TOPMINNOW
MOSQUITOFISH
SAILFIN MOLLY
BROOK SILVERSIDED FLYER
FLIER
GREEN SUNFISH
WARMOUTH
ORANGESPOTTED SUNFISH
BLUEGILL
DOLLAR SUNFISH
LONGEAR SUNFISH
REDEAR SUNFISH
SPOTTED SUNFISH
BANTAM SUNFISH
SPOTTED BASS
LARGEMOUTH BASS
WHITE CRAPPIE

BLACK CRAPPIE
BANDED PYGMY SUNFISH
FRESHWATER DRUM

****AMPHIBIANS****

THREE-TOED AMPHIBIUM
DUSKY SALAMANDER
DWARF SALAMANDER
CENTRAL NEWT
GULF COAST TOAD
WOODHOUSE'S TOAD
NORTHERN CRICKET FROG
BIRD-VOICED TREEFROG
COPE'S GRAY TREEFROG
GREEN TREEFROG
FIG FROG
STRIPED CHORUS FROG
EASTERN NARROWMOUTH TOAD
BULLFROG
GREEN FROG
SOUTHERN LEOPARD FROG
SQUIRREL TREEFROG
GRAY TREEFROG

****REPTILES****

GREEN SEA TURTLE
KEMP'S RIDLEY SEA TURTLE
SNAPPING TURTLE
ALLIGATOR SNAPPING TURTLE
PAINTED TURTLE
CHICKEN TURTLE
MISSISSIPPI MAP TURTLE
RIVER COOTER
COOTER
EASTERN BOX TURTLE
EASTERN MUD TURTLE
RAZORBACK MUSK TURTLE
COMMON MUSK TURTLE OR STINKPOT
SPINY SOFTSHELL
AMERICAN ALLIGATOR
EASTERN GLASS LIZARD

MEDITERRANEAN GECKO
REPTILES CONT'

GREEN ANOLE
FIVE-LINED SKINK
BROADHEAD SKINK
GROUND SKINK
RACER
RINGNECK SNAKE
RAT SNAKE
MUD SNAKE
EASTERN HOGNOSE SNAKE
COMMON KINGSSNAKE
MILK SNAKE
GREEN WATER SNAKE
PLAINBELLY WATER SNAKE
SOUTHERN WATER SNAKE
DIAMONDBACK WATER SNAKE
ROUGH GREEN SNAKE
GLOSSY CRAYFISH SNAKE
NORTHERN BROWN SNAKE
WESTERN RIBBON SNAKE
COMMON GARTER SNAKE
COPPERHEAD
COTTONMOUTH
CANEBRAKE RATTLESNAKE
PIGMY RATTLESNAKE

BIRDS

COMMON LOON
PIED-BILLED GREBE
HORNED GREBE
EARED GREBE
WESTERN GREBE
AUDUBON'S SHEARWATER
MASKED BOOBY
AMERICAN WHITE PELICAN
BROWN PELICAN
DOUBLE-CRESTED CORMORANT
ANHINGA
AMERICAN BITTERN
LEAST BITTERN
GREAT BLUE HERON
GREAT EGRET
SNOWY EGRET
LITTLE BLUE HERON
TRICOLORED HERON

REDDISH EGRET
CATTLE EGRET
GREEN-BACKED HERON
BLACK-CROWNED NIGHT-HERON
YELLOW-CROWNED NIGHT-HERON
WHITE IBIS
GLOSSY IBIS
WHITE-FACED IBIS
WOOD STORK
TUNDRA SWAN
GREATER WHITE-FRONTED GOOSE
SNOW GOOSE
CANADA GOOSE
WOOD DUCK
GREEN-WINGED TEAL
AMERICAN BLACK DUCK
MOTTLED DUCK
MALLARD
NORTHERN PINTAIL
BLUE-WINGED TEAL
CINNAMON TEAL
NORTHERN SHOVELER
GADWALL
AMERICAN WIGEON
CANVASBACK
REDHEAD
GREATER SCAUP
LESSER SCAUP
OLDSQUAW
BLACK SCOTER
SURF SCOTER
WHITE-WINGED SCOTER
COMMON GOLDENEYE
BUFFLEHEAD
HOODED MERGANSER
COMMON MERGANSER
RED-BREASTED MERGANSER
RUDDY DUCK
BLACK VULTURE
TURKEY VULTURE
OSPREY
AMERICAN SWALLOW-TAILED KITE
MISSISSIPPI KITE
BALD EAGLE
NORTHERN HARRIER
SHARP-SHINNED HAWK
COOPER'S HAWK
RED-SHOULDERED HAWK
BROAD-WINGED HAWK

RED-TAILED HAWK
BIRDS CONT'

ROUGH-LEGGED HAWK
GOLDEN EAGLE
AMERICAN KESTREL
MERLIN
PEREGRINE FALCON
NORTHERN BOBWHITE
YELLOW RAIL
BLACK RAIL
CLAPPER RAIL
KING RAIL
VIRGINIA RAIL
SORA
PURPLE GALLINULE
COMMON MORHEN
AMERICAN COOT
BLACK-BELLIED PLOVER
LESSER GOLDEN-PLOVER
SEMIPALMATED PLOVER
PIPING PLOVER
KILLDEER
BLACK-NECKED STILT
AMERICAN AVOCET
GREATER YELLOWLEGS
LESSER YELLOWLEGS
SOLITARY SANDPIPER
WILLET
SPOTTED SANDPIPER
SANDERLING
WESTERN SANDPIPER
LEAST SANDPIPER
BAIRD'S SANDPIPER
PECTORAL SANDPIPER
DUNLIN
SHORT-BILLED DOWITCHER
LONG-BILLED DOWITCHER
COMMON SNIPE
AMERICAN WOODCOCK
LAUGHING GULL
FRANKLIN'S GULL
BONAPARTE'S GULL
RING-BILLED GULL
HERRING GULL
GULL-BILLED TERN
CASPIAN TERN
ROYAL TERN
SANDWICH TERN

FORSTER'S TERN
COMMON TERN
LEAST TERN
BLACK SKIMMER
ROCK DOVE
WHITE-WINGED DOVE
MOURNING DOVE
COMMON GROUND-DOVE
YELLOW-BILLED CUCKOO
GROOVE-BILLED ANI
COMMON BARN-OWL
EASTERN SCREECH-OWL
GREAT HORNED OWL
BURROWING OWL
BARRED OWL
LESSER NIGHTHAWK
COMMON NIGHTHAWK
CHUCK-WILL'S-WIDOW
WHIP-POOR-WILL
CHIMNEY SWIFT
BUFF-BELLIED HUMMINGBIRD
RUBY-THROATED HUMMINGBIRD
BLACK-CHINNED HUMMINGBIRD
RUFIOUS HUMMINGBIRD
BELTED KINGFISHER
RED-HEADED WOODPECKER
RED-BELLIED WOODPECKER
YELLOW-BELLIED SAPSUCKER
DOWNY WOODPECKER
HAIRY WOODPECKER
NORTHERN FLICKER
PILEATED WOODPECKER
EASTERN WOOD-PEWEE
WILLOW FLYCATCHER
LEAST FLYCATCHER
EASTERN PHOEBE
VERMILION FLYCATCHER
ASH-THROATED FLYCATCHER
GREAT CRESTED FLYCATCHER
WESTERN KINGBIRD
EASTERN KINGBIRD
SCISSOR-TAILED FLYCATCHER
HORNED LARK
PURPLE MARTIN
TREE SWALLOW
NORTHERN ROUGH-WINGED SWALLOW
BARN SWALLOW
BLUE JAY
AMERICAN CROW

FISH CROW
BIRDS CONT'

CAROLINA CHICKADEE
TUFTED TITMOUSE
RED-BREASTED NUTHATCH
BROWN CREEPER
CAROLINA WREN
BEWICK'S WREN
HOUSE WREN
WINTER WREN
SEdge WREN
MARSH WREN
GOLDEN-CROWNED KINGLET
RUBY-CROWNED KINGLET
BLUE-GRAY GNATCATCHER
EASTERN BLUEBIRD
GRAY-CHEEKED THRUSH
SWAINSON'S THRUSH
HERMIT THRUSH
WOOD THRUSH
AMERICAN ROBIN
GRAY CATBIRD
NORTHERN MOCKINGBIRD
BROWN THRASHER
WATER PIPIT
SPRAGUE'S PIPIT
CEDAR WAXWING
LOGGERHEAD SHRIKE
EUROPEAN STARLING
WHITE-EYED VIREO
SOLITARY VIREO
YELLOW-THROATED VIREO
PHILADELPHIA VIREO
RED-EYED VIREO
BLUE-WINGED WARBLER
GOLDEN-WINGED WARBLER
TENNESSEE WARBLER
ORANGE-CROWNED WARBLER
NORTHERN PARULA
YELLOW WARBLER
CHESTNUT-SIDED WARBLER
MAGNOLIA WARBLER
YELLOW-RUMPED WARBLER
BLACK-THROATED GRAY WARBLER
BLACK-THROATED GREEN WARBLER
YELLOW-THROATED WARBLER
PINE WARBLER
PALM WARBLER

BAY-BREASTED WARBLER
BLACK-AND-WHITE WARBLER
AMERICAN REDSTART
PROTHONOTARY WARBLER
OVENBIRD
NORTHERN WATERTHRUSH
LOUISIANA WATERTHRUSH
KENTUCKY WARBLER
COMMON YELLOWTHROAT
HOODED WARBLER
WILSON'S WARBLER
CANADA WARBLER
YELLOW-BREASTED CHAT
SUMMER Tanager
SCARLET Tanager
WESTERN Tanager
NORTHERN CARDINAL
ROSE-BREASTED GROSBEAK
BLACK-HEADED GROSBEAK
BLUE GROSBEAK
INDIGO BUNTING
PAINTED BUNTING
DICKCISSEL
RUFIOUS-SIDED TOWHEE
BACHMAN'S SPARROW
AMERICAN TREE SPARROW
CHIPPING SPARROW
CLAY-COLORED SPARROW
FIELD SPARROW
VESPER SPARROW
SAVANNAH SPARROW
GRASSHOPPER SPARROW
HENSLOW'S SPARROW
LE CONTE'S SPARROW
SHARP-TAILED SPARROW
SEASIDE SPARROW
FOX SPARROW
SONG SPARROW
LINCOLN'S SPARROW
SWAMP SPARROW
WHITE-CROWNED SPARROW
WHITE-THROATED SPARROW
HARRIS' SPARROW
DARK-EYED JUNCO
RED-WINGED BLACKBIRD
EASTERN MEADOWLARK
WETERN MEADOWLARK
RUSTY BLACKBIRD
BREWER'S BLACKBIRD

BOAT-TAILED GRACKLE
BIRDS CONT'

COMMON GRACKLE
BROWN-HEADED COWBIRD
ORCHARD ORIOLE
NORTHERN ORIOLE
PURPLE FINCH
PINE SISKIN
AMERICAN GOLDFINCH
HOUSE SPARROW

****MAMMALS****

SOUTHEASTERN MYOTIS
EASTERN PIPISTRELLE
BIG BROWN BAT
RED BAT
SEMINOLE BAT
NORTHERN YELLOW BAT
EVENING BAT
RAFINESQUE'S BIG-EARED BAT
BRAZILIAN FREE TAIL BAT
NINE-BANDED ARMADILLO
EASTERN COTTONTAIL
SWAMP RABBIT
GRAY SQUIRREL
FOX SQUIRREL
MARSH RICE RAT
FULVOUS HARVEST MOUSE
WHITE-FOOTED MOUSE
COTTON MOUSE
HISPID COTTON RAT
EASTERN WOODRAT
MUSKRAT
NUTRIA
RACCOON
MINK
RIVER OTTER
WHITE-TAILED DEER