

DR 500-1-4
CHANGE 1

DEPARTMENT OF THE ARMY
ST. LOUIS DISTRICT, CORPS OF ENGINEERS
210 TUCKER BOULEVARD, NORTH
ST. LOUIS, MISSOURI 63101-1986

LMSOD-E

Regulation
No. 500-1-4

15 June 1987

Emergency Management
NATURAL DISASTER RESPONSE PLANS

DR 500-1-4, 1 April 1986, is changed as follows:

1. Remove old pages and insert new pages as indicated below. New or changed material is indicated by an asterisk in the margin of the page at the beginning and end of the change.

Remove pages
DR 500-1-4

2-1, 2-2, 2-5 thru 2-8,
2-13 thru 2-26
A-1 thru A-3

Insert pages
DR 500-1-4

2-1, 2-2, 2-5 thru 2-8,
2-13 thru 2-26
A-1 thru A-3

2. File this change in front of the publication for reference purposes.


DANIEL M. WILSON
COL, CE
Commanding

DISTRIBUTION:
Special
LMVIM-SR (2)
LMSIM-SL (2)
AH (1)

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1 April 1986

OIL AND HAZARDOUS MATERIALS INCIDENT
RESPONSE CONTINGENCY PLAN

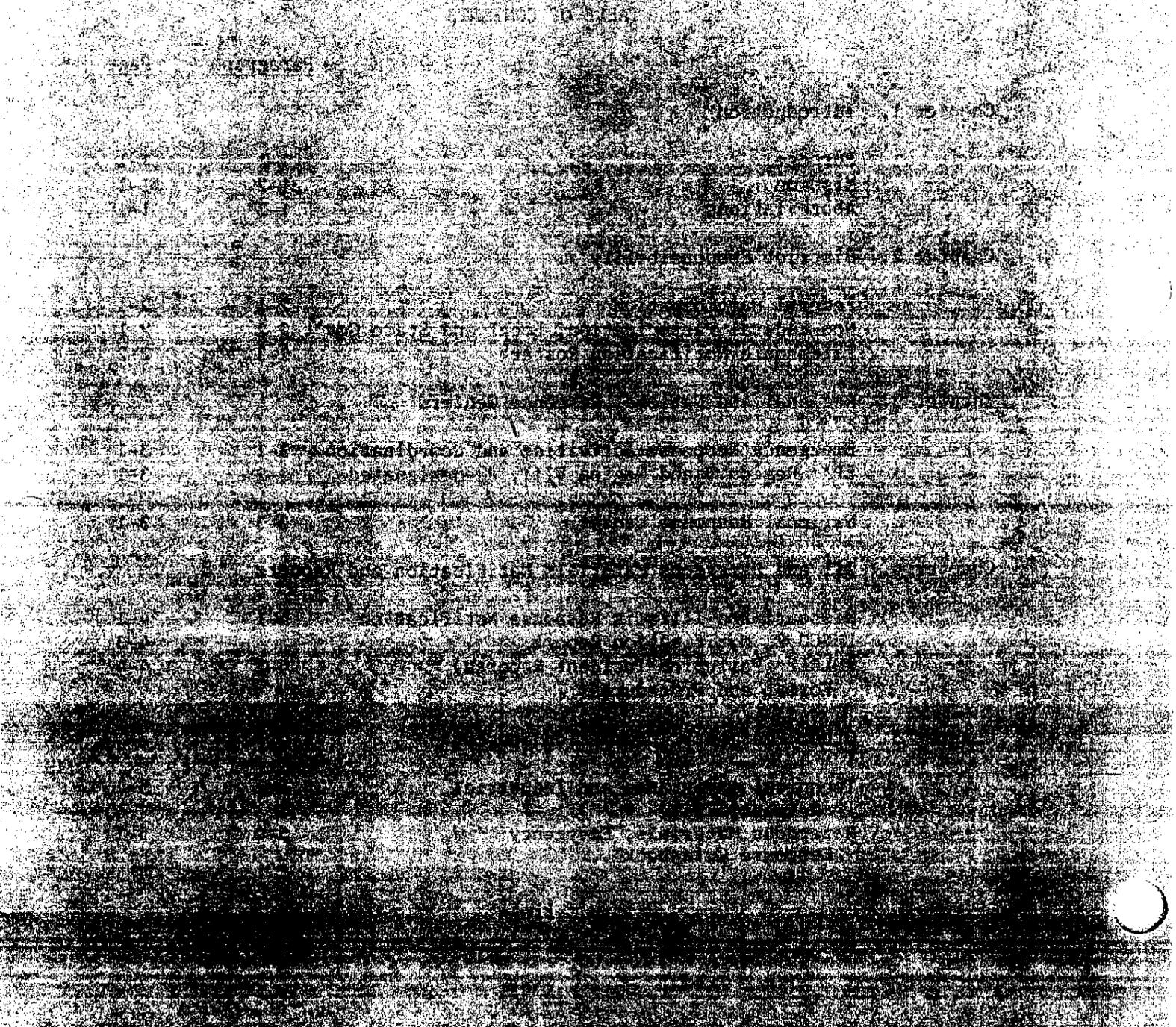
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OIL AND HAZARDOUS MATERIALS INCIDENT
RESPONSE CONTINGENCY PLAN

CHAPTER 1
INTRODUCTION

This Oil and Hazardous Materials Incident Response Contingency Plan was formulated as a SOP (Standard Operating Procedure) for the St. Louis District, (SLD).

1-1. PURPOSE. This District Regulation will supplement the Division plan and is intended to provide additional guidance for SLD activities in conjunction with emergency situations involving oil and hazardous materials.

1-2. MISSION. The primary responsibility for the containment and the cleanup of oil and hazardous spills has been assigned to Environmental Protection Agency (EPA) for all inland waters, to the U.S. Coast Guard (USCG) for all navigable waters and Department of Defense (DOD) for spills on Government installations.

The St. Louis District's mission in support of the Corps response in incidents pertaining to oil and hazardous materials could include but would not be limited to the following:

- (1) Engineering Design Support
- (2) Construction Support and Administration
- (3) Legal Support
- (4) Inspections
- (5) Surveys

1-3. ABBREVIATIONS.

Department and Agency Title Abbreviations

a. Federal

USACE	U.S. Army Corps of Engineers
DOA	Department of Agriculture

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DOC	Department of Commerce
DOD	Department of Defense
DOE	Department of Energy
DOHHS	Department of Health and Human Services
DOI	Department of Interior
DOJ	Department of Justice
DOL	Department of Labor
DOS	Department of State
DOT	Department of Transportation
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Association
HUD	Department of Housing and Urban Development
IRAP	Interagency Radiological Assistance Plan
IRLG	Interagency Regulatory Liaison Group
MARAD	Maritime Administration
NOAA	National Oceanic and Atmospheric Administration
NWS	National Weather Service
OSHA	Occupational Safety and Health Administration
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USFS	U.S. Forest Service
USN	U.S. Navy
USPHS	U.S. Public Health Service

b. State

IEPA	Illinois Environmental Protection Agency
MDNR	Missouri Department of Natural Resources

c. Operational Title Abbreviations (Usually by EPA or USCG)

ERT	Environmental Response Team
NRC	National Response Center
NRT	National Response Team
OSC	On-Scene Coordinator
PIAT	Public Information Assistance Team
SSC	Scientific Support Coordinator
RRC	Regional Response Center (Region V and Region VII, EPA)
RRT	Regional Response Team (Region V and Region VII, EPA)

d. Regional Abbreviations (Region V and VII, EPA and USCG)

EP&R	Emergency Planning and Response Branch (EPA)
ENSV	Environmental Services Division (Division Director Chairs RRT)
COTP	Captain of the Port (USCG)

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e. Miscellaneous Abbreviations

CWA	Clean Water Act of 1977 (Amends FWPCA)
FTS	Federal Telecommunications System
FWPCA	Federal Water Pollution Control Act, 33 USC 1321 Code Title 33, Part 1321
POLREP	Oil or Hazardous Materials Report in Teletype Message Format
CERCLA	The Comprehensive Environmental Response, Compensation and Liability Act of 1980 (42 U.S.C. 9601)

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CHAPTER 2 DISTRICT RESPONSIBILITY

2-1. FEDERAL PARTICIPATION

The Corps of Engineers, St. Louis District anticipates that various elements within the SLD could be tasked to assist the RRT or OSC, when requested and/or activated. The St. Louis District will also be responsible as an OSC for spills of oil or other hazardous materials associated with civil works projects such as: Locks and Dams (the forebay area of all the up and downbound lockages), Lake Projects and the Service Base until relieved by the USCG, USEPA Region V and Region VII.

The Department of Defense consistent with its operational requirements, may provide assistance in critical oil or hazardous materials incidents and in the maintenance of navigation channels, salvage and removal of navigation obstructions. The DOD will provide the OSC and RRT chairman for releases on DOD property and facilities. (RRT Chairman for this area is 5th U.S. Army.)

Any district employee who observes or is notified of a spill should make immediate notification as outlined in para. 2-3.

2-2. NON-FEDERAL PARTICIPATION.

It is desirable that all levels of Local and State Government have a functional plan for coping with oil and hazardous materials incidents, in order to mitigate the hazards associated with such incidents. The degree of development of such plans is dependent on the level of government or the agency compiling them, with more effort being required as the size of the jurisdictional area increases. Hazardous materials plans can often be incorporated into existing Civil Preparedness plans, which may already specify an organizational structure for coping with other disasters. Time and effort may be saved if the hazardous materials plan is built upon plans and organizations already available.

For the State of Missouri, the point of contact is:
Missouri Department of Natural Resources
2010 Missouri Boulevard, P.O. Box 1368
Jefferson City, Missouri 65101

For the State of Illinois, the point of contact is:
Illinois Environmental Protection Agency
2200 Churchill Rd.
Springfield, Illinois 62706

The above named state agencies can provide assistance and/or guidance for any local community interested in initiation of their own oil and hazardous materials plan.

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2-3. TELEPHONIC NOTIFICATION ROSTER

CHAPTER 2

		Points of Contact	
a. Federal Assistance:		Office	Residence
(1) Chief, Emergency Management Branch			
	Louis J. Chiodini, Jr.	314-263-5705	314-846-1919
	<u>Alternate</u>		
	Ben F. Venturella, Jr.	314-263-5301	314-892-6690
(2) Chief, Operations Division			
	James A. Petersen	314-263-5517	314-725-9548
	<u>Alternate No. 1</u>		
*	Michael J. Cullen	314-263-5517	314-842-3488
	<u>Alternate No. 2</u>		
*	Walter C. Feld	314-263-5854	314-894-0437
(3) Chief, Natural Resource Management Branch			
	John F. Marzec	314-263-5533	618-397-0576
	<u>Alternate</u>		
	Stanley F. Ebersohl	314-263-5040	314-921-1786

The Chief, Emergency Management Branch or his alternate should immediately report the spill to the National Response Center, then the affected USEPA Region VII, U.S. Coast Guard Marine Safety Office and State in which the incident occurred, and the Lower Mississippi Valley Division; 601-634-7304, 601-634-7300 (24 hrs), POC Emergency Management Branch.

Point of Contact (POC) State

National Response Center (NRC) All States
 Duty Officer, U.S. Coast Guard Headquarters
 Washington, D.C. 20590
 Toll Free 1-800-424-8802 (24 hrs.)

U.S. EPA Region VII, Spill Response Section Missouri
 25 Funston Road
 Kansas City, Kansas 66115

Office: 913-236-3888
 Response: 913-236-3778 (24 hrs.)

U.S. EPA Region V, Spill Response Section Illinois
 536 South Clark Street

Chicago, Illinois 60605
 Office: 312-353-2316
 Response: 312-353-1218 (24 hrs.)

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U.S. Coast Guard Second District 1430 Olive Street Communications Center St. Louis, Missouri 63103 Office: 314-425-4655 Response: 314-425-5823 (24 hrs.) Commanding Officer, U.S. Coast Guard Marine Safety Office, Paducah 1501 Broadway Paducah, Kentucky 42001 Office: 502-442-1621 Response: 314-425-5823 (24 hrs.) Commanding Officer, U.S. Coast Guard Marine Safety Office, St. Louis 210 Tucker Blvd., North St. Louis, Missouri 63101 Office: 314-425-5823 (Port Operations) Response: 314-425-5823 (24 hrs.)	Missouri and Illinois River & Mile * UMR Mile 0 to 75.5 River & Mile * UMR Mile 75.5 to 853 Ill. River Mile 0 to 187 Mo. River Mile 0 to 732.4
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State of Missouri:

Mr. James H. Long, Director, Laboratory Services Program
(Mr. G. Dean Martin, Alternate)
Missouri Department of Natural Resources
2010 Missouri Boulevard, P.O. Box 1368
Jefferson City, Missouri 65101
Office: 314-751-3241
Emergency No.: 314-634-2436

* UMR - Upper Mississippi River

State of Illinois:

State of Illinois Emergency Services
and Disaster Agency (Primary Contact)
110 East Adams Street
Springfield, Illinois 62706
Office: 217-782-7860 (24 hrs.)

Illinois Environmental Protection Agency
2200 Churchill Road (Alternate Contact)
Springfield, Illinois 62706
Office: 217-782-2829
Emergency No.: 217-782-3637 (24 hrs.)

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The following is a listing of available community assistance organizations that should be notified in the event of an oil and hazardous material incident surrounding Locks and Dams, Service Base and Lake Management Projects within the St. Louis District after Federal notification has been established as outlined on page 2-2, for normal duty hours. For non-duty hours, notification should be to the "National Response Center" (NRC) toll free 1-800-424-8802 first. The use of the Department of Transportation, "Emergency Response Guidebook" (DOT-P-5800.3) "Hazardous Materials" is utilized for initial actions to be taken to protect on site personnel and the public. The second call should be made to "CHEMTREC" toll free 1-800-424-9300. The Chemical Transportation Emergency center ("CHEMTREC") provides immediate advice at the scene of emergencies, then promptly contacts the shipper of the "Hazardous Materials Involved."

* Emergency Reporting Information

Caller's name, telephone number, identification

Location and source of spill

Material spilled and estimated quantity

* This is the minimum amount of information you should try to report.

After these calls have been established, SLD Emergency Management Personnel should be notified with the information that has been reported to the "NRC" so that complete notification can be accomplished as depicted on page 2-2 of this plan, to Division, other Federal agencies and the state affected.

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VICINITY OF
LOCK AND DAM 24, MO

314-242-3524

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>	
Missouri State Highway Patrol, Troop C	P.O. Box 3756 Kirkwood, MO 63122	314-434-5500	
Illinois State Police	P.O. Box 32 Pittsfield, IL 62363	217-285-4431	
Clarksville Fire Department	401 North 1st Clarksville, MO 63336	314-242-3511	
Louisiana Fire Department	200 North 7th Louisiana, MO 63353	314-754-5100	
* Civil Defense Coordinator Pike County, MO	701 Georgia St. Louisiana, MO 63353	314-754-6917	*
* Civil Defense Coordinator * Steve Glascock	111 Howard Street Clarksville, MO 63336	314-242-3336	* *
Pike County Sheriff's Office	5 East Church Street Bowling Green, MO 63334	314-324-3202 314-324-3335	
Clarksville Utilities Electric & Water	115 Howard Clarksville, MO 63336	314-242-3553	
Pike County Highway Superintendent	Route 2 Bowling Green, MO 63334	314-324-3902	
Union Electric Co.	P.O. Box 369 Louisiana, MO 63353	314-754-5522	
B&H Hauling Service	P.O. Box 57 Winfield, MO 63389	314-668-8367	
Pike County Memorial Hospital	2305 W. Georgia Louisiana, MO 63353	314-754-5531	
* Mayor of Clarksville * Lonnie Schaffer	111 Howard Street Clarksville, MO 63336	314-242-3336	* *
* Police Department	111 Howard Street Clarksville, MO 63336	314-242-3232	*
Southwestern Bell Telephone Co.	(Repair Service for 314 area code)	314-574-1400	

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VICINITY OF
LOCK AND DAM 26, IL

618-462-1713

Community Assistance

Addresses

Telephone Nos:

Illinois State Police District No. 11 Hdq. 618-345-1212
Maryville, IL 62234

Alton Police Department 101 East 3rd Street 618-463-3505
Alton, IL 62002

Alton Fire Department 101 East 3rd Street 618-463-3501
Alton, IL 62002

Alton Emergency Services 513 East 3rd Street 618-463-3575
and Disaster Agency Alton, IL 62002

Illinois Emergency Service 110 East Adams Street 217-782-7860
and Disaster Agency Springfield, IL 62706 (24 hrs.)

Alton Volunteer 2400 Bloomer Dr. 618-462-2202
Emergency Corps Alton, IL 62002

Alton Memorial Hospital One Memorial Dr. 618-463-4357
Alton, IL 62002

* Madison County Sheriff 405 Randle St. 618-692-4433
Edwardsville, IL 62025

Missouri State Highway 314-434-5500
Patrol

St. Charles County Sheriff 314-925-2111

Federal Bureau of Investigation 618-463-6411
Alton, IL 217-522-9675
Springfield, IL

US Coast Guard 314-425-4604
Aids to Navigation St. Louis, MO
Search and Rescue St. Louis, MO 314-425-4614

St. Joseph's Hospital 618-463-5161
Emergency Dept. 1915 East Fifth St.
Alton, IL 62002

Missouri State Water Patrol 314-751-3333
Jefferson City, MO 65102 (24 hours)

Note: Local personnel will be dispatched. Sgt. Gerald Fox (618-463-3333)
Asst. Supv. (home) 314-898-2660 *

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VICINITY OF
LOCK AND DAM #26, (REPLACEMENT), MO
Resident Office

314-899-0650

Community Assistance Addresses Telephone Nos:

Illinois State Police District No. 11, Hdq.
Maryville, IL 62234 618-345-1212

Alton Police Department 101 East 3rd Street
Alton, IL 62002 618-463-3505

Alton Fire Chief 314 State Street
Alton, IL 62002 618-463-3565

Alton Emergency Services
and Disaster Agency 513 East 3rd Street
Alton, IL 62002 618-463-3575

Civil Defense, East Alton Shamrock Street
East Alton, IL 62024 618-259-2279

Fire Rescue Squad
City of Alton 101 East 3rd Street
Alton, IL 62002 618-463-3501

Public Work Department
City of Alton 101 East 3rd Street
Alton, IL 62002 618-463-3530

Sanitation Department
City of Alton Front and Oaks Street
Alton, IL 62002 618-463-3560

Sanitation and Landfill
City of Alton Alby Road
Alton, IL 62002 618-466-0102

Sewage Treatment Plant
City of Alton Chessen Lane
Alton, IL 62002 618-463-3558

St. Joseph's Hospital
Alton 915 East 5th Street
Alton, IL 62002 618-463-5151

Alton Memorial Hospital One Memorial Dr.
Alton, IL 62002 618-463-4357

Wood River Township
Hospital Edwards Road
Wood River, IL 62095 618-254-4311

Illinois Power Co. (Electric)
(Gas, Emergency)
(Alton) 18 East Lorena Ave.
Wood River, IL 62095 618-254-0133
618-8-254-0699 (Gas)

Illinois Bell Telephone
(Repair Service) 1805 Washington
Alton, IL 62002 618-465-9954

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VICINITY OF
LOCK AND DAM 26, (REPLACEMENT), MO

314-899-0650

Resident Office
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Community Assistance

Addresses

Telephone Nos:

City of Alton, Mayor

101 East 3rd Street
Alton, IL 62002

618-463-3500

Madison County, IL:

Circuit Court, Alton

City of Alton, IL

618-462-5712

Circuit Court, East Alton

Vital Services Bldg.
Madison Co., IL 62060

618-259-3772

Sheriff's Department

405 Randle
Edwardsville, IL 62025

618-692-4433

West Alton, MO:
Police

120 South 2nd Street
St. Charles, MO 63301

314-925-2111

Fire Department

2645 West Clay
St. Charles, MO 63301

314-724-0424

St. Charles County
Sheriff's Department

120 South 2nd Street
St. Charles, MO 63301

314-925-2111

Union Electric Co.

St. Charles, MO 63301
Area

314-724-4423

Missouri State Highway
Patrol, Troop C

P.O. Box 3756
Kirkwood, MO 63122

314-434-5500

Southwestern Bell
Telephone Co.

(Repair Service)
for 314 area code

314-571-1400

Laclede Gas Co.

(Emergency Service Only)

314-621-6960

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VICINITY OF
LOCK AND DAM 27, IL

618-452-7107

Community AssistanceAddressesTelephone Nos:

Illinois State Police

District No. 11, Hdq.
Maryville, IL 62234

618-345-1212

Granite City Police
Department2330 Madison Ave.
Granite City, IL 62040

618-877-6111

Madison County Sheriff
Department405 Randle
Edwardsville, IL 62025

618-656-4433

U.S. Army St. Louis Area
Support Center(Security Police)
Granite City, IL 62040

618-452-4224

Granite City Fire
Department2300 Madison Ave.
Granite City, IL 62040

618-877-6114

618-877-4545

Madison Fire Department

1529 3rd Street
Madison, IL 62060

618-876-4300

U.S. Army St. Louis Area
Support Center(Fire Department)
Granite City, IL 62040

618-452-4200

Granite City Civil
Defense2330 Madison Ave.
Granite City, IL 62040

618-877-3157

Madison County Emergency
Services and Disaster Agency333 South Main
Edwardsville, IL 62025

618-692-0537

Illinois-American Water Co.

1800 Edison Ave.
Granite City, IL 62040

618-876-0010

U.S. Army St. Louis Area
Support Center(Water Service)
Granite City, IL 62040

618-452-4254

Facilities Division

Granite City Fire Department
Rescue Service2300 Madison Ave.
Granite City, IL 62040

618-877-4747

Madison Fire Department
Rescue Service1529 3rd Street
Madison, IL 62060

618-876-4300

St. Elizabeth Hospital

2400 Madison Ave.
Granite City, IL 62040

618-798-3000

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VICINITY OF
LOCK AND DAM 27, IL
(Continued)

618-452-7107

Community Assistance

Addresses

Telephone Nos:

Illinois Power (Electric)
Granite City, IL (Gas)

(Power Emergency)
(Gas Emergency)

618-798-6230
618-798-6261

Illinois Bell Telephone Co.

(Business Office)
Granite City, IL 62040

1-800-621-7951
(Illinois only)

Granite City Street Department

2301 Adams
Granite City, IL 62040

618-452-6222

Granite City Mayor's Office

2300 Edison
Granite City, IL 62040

618-452-6214

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VICINITY OF
KASKASKIA LOCK & DAM, IL

618-284-7160

Community AssistanceAddressesTelephone Nos:

Illinois State Police
 District 13, Hdq

Du Quoin Office
 Du Quoin, IL 62832

618-542-2171

Randolph County
 Sheriff

Randolph County Court House
 Chester, IL 62233

618-826-3114

Prairie Du Rocher
 Fire Department

Prairie Du Rocher,
 IL 62277

618-284-3351

Egyptian Electric

1005 West Broadway
 Steeleville, IL 62288

618-965-3434

Chester Gas Company
 City Hall

City of Chester
 Chester, IL 62233

618-826-2326

Harrisonville
 Telephone Co.

213 South Main
 Waterloo, IL 62298

618-282-2111

Ambulance Service

Chester, IL 62233

618-826-3401

Ambulance Service

Red Bud, IL 62278

618-282-2727

Chester Memorial
 Hospital

1900 State Street
 Chester, IL 62233

618-826-4581

St. Clements Hospital

325 Spring Street
 Red Bud, IL 62233

618-282-3831

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VICINITY OF
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
SERVICE BASE - FOOT OF ARSENAL STREET
ST. LOUIS, MO 63118-3394

314-263-4158

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>
City of St. Louis Police Department (City of St. Louis only)	(Emergency Assistance)	911
City of St. Louis Fire Department (City of St. Louis only)	(Emergency Assistance)	911
City of St. Louis Disaster Operations Office Soldiers Memorial Building	1315 Chestnut Street St. Louis, MO 63103	314-622-3501 314-622-4264
City of St. Louis	City Hall Tucker Blvd. & Market St. St. Louis, MO 63103	314-622-4000
St. Louis Regional Medical Center (Emergency Room)	5535 Delmar Ave. St. Louis, MO 63115	314-361-1212
Ambulance (City of St. Louis only)	(Emergency Assistance)	911

Note: For additional departments not listed in the blue pages of the Southwestern Bell Telephone Directory for the City of St. Louis, call 314-622-4000 for department telephone numbers desired.

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VICINITY OF
 MARK TWAIN LAKE, MO
 MANAGEMENT OFFICE

314-735-4097

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>
Missouri State Highway Patrol, Troop B	P.O. Box 247 Macon, MO 63552	816-385-2132
Monroe County Sheriff	Courthouse Bldg. Paris, MO 65275	816-327-4708 816-327-4820
Ralls County Sheriff	P.O. Box 127 New London, MO 63459	314-985-5611
Monroe City Police	300 North Main St. Monroe City, MO 63456	314-735-4411
* Perry City Police	P.O. Box 115 Perry, MO 63462	314-565-3362 314-565-3571
Center Police Department	City Hall Center, MO 63436	314-267-3770
Monroe City Fire Department	300 North Main St. Monroe City, MO 63456	314-735-4431
Perry Fire Department	Volunteer Fire Dept. Perry, MO 63462	314-565-3300
Center Fire Department	Center City Hall Center, MO 63436	314-267-3770
Paris Fire Department	124 West Caldwell Paris, MO 65275	816-327-4141
* Emergency Preparedness Coordinator, Monroe County	Courthouse Paris, MO 65275	816-327-5817
Emergency Preparedness Coordinator, Ralls County	Route 2 Paris, MO 65275	314-565-2897
Missouri Department of Conservation		
Ralls Co., Agent	New London, MO 63459	314-985-7751
Monroe Co., Agent	Paris, MO 65275	816-327-5344
Monroe Co., Agent	Monroe City, MO 63456	314-735-4180
Highway Engineer Ralls County	New London, MO 63459	314-985-7181

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VICINITY OF
MARK TWAIN LAKE, MO
MANAGEMENT OFFICE
(Continued)

314-735-4097

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>
Highway Engineer Monroe County	Paris, MO 65275	816-327-5640
Monroe Co. Ambulance	Jct. 24 & 15 Paris, MO 65275	816-327-4252 816-327-4757
Monroe City Ambulance	Hwy 36 & 24 East Monroe City, MO 63456	314-735-4111
Ralls Co. Ambulance c/o Marion Co. Ambulance District	110 A. Magnolia Hannibal, MO 63401	314-221-5000
Levering Hospital	1734 Market Hannibal, MO 63401	314-221-6511
St. Elizabeth's Hospital	109 Virginia Ave. Hannibal, MO 63401	314-221-0414
Audrain Medical Center	620 East Monroe Mexico, MO 65265	314-581-1760
* Contel(Repair Service)		314-735-4100 *
Contel (Repair Service)	P.O. Box 146 Wentzville, MO 63385	314-327-3114
Southwestern Bell Telephone Co.	(Repair Service) For 314 Area Code	314-571-1400
Cannon Water Supply District No. 1	P.O. Box 430 Perry, MO 63462	314-565-2656
Ralls County Electric Cooperative	P.O. Box 157 New London, MO 63459	314-985-8711
Perry Light & Water Department	Perry, MO 63462	314-565-3131
Gas Line Re-Regulation Dam Monroe City	City Hall Monroe City, MO 63456	314-735-4411 (Emergency Shut Off)

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VICINITY OF
MARK TWAIN LAKE, MO
MANAGEMENT OFFICE
(Continued)

314-735-4097

Community Assistance

Addresses

Telephone Nos:

Monroe City Hall

South Main
Monroe City, MO

314-735-4440

314-735-4585

Center, MO City Hall

Center City Hall
Center, MO 63436

314-267-3770

County Commissioner &
Presiding Judge, Monroe Co.

County Courthouse
Paris, MO 65275

314-327-5817

County Commissioner &
Presiding Judge, Ralls Co.

County Courthouse
Center, MO 63436

314-985-7111

Missouri State
Water Patrol

District Supervisor
Vandalia, MO 63382

314-594-3339

Missouri State

P.O. Box 603, Dispatcher
Jefferson City, MO 65102

314-751-3333

Water Patrol (After Midnight)

314-581-1740

630 East Monroe
Mexico, MO 65262

Admission Medical Center

* 314-382-4100

Water Valley, MO 63382

Central (Repair Service)

314-382-3114

P.O. Box 140

Central (Repair Service)

314-571-1400

(Repair Service)
For 314 Area Code

Southern Bell
Telephone Co.

314-562-2226

P.O. Box 430
Berry, MO 63003

Cannon Water Supply
District No. 1

314-982-4111

P.O. Box 131
New London, MO 63422

Bellevue Electric
Cooperative

314-562-3131

Berry, MO 63003

Ferry Light & Water
Department

314-735-4411

City Hall
Monroe City, MO 63436

Gas Line Re-Regulation
San Monroe City

(Emergency Shift Only)

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**VICINITY OF
WAPPAPELLO LAKE, MO
MANAGEMENT OFFICE**

314-755-8562

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>
Missouri State Highway Patrol, Troop E	Highway 67, North Poplar Bluff, MO 63901	314-785-5757
Wayne County Sheriff's Department	Wayne County Courthouse Greenville, MO 63944	314-224-3219
Butler County Sheriff's Department	Butler County Courthouse Poplar Bluff, MO 63901	314-785-8444
Stoddard County Sheriff's Department	Stoddard County Courthouse Bloomfield, MO 63825	314-568-4654
* Wappapello Fire Department	Volunteer Fire Department Wappapello, MO 63966	314-222-8342 *
Civil Defense	300 Cedar Poplar Bluff, MO 63901	314-785-7390
Missouri Department of Natural Resources	948 Lester Street Poplar Bluff, MO 63901	314-785-0832
Missouri State Highway Department	Highway 67, North Poplar Bluff, MO 63901	314-785-2219
* Doctor's Regional Medical Center	621 Pine Poplar Bluff, MO 63901	314-686-4111 *
Lucy Lee Hospital	Highway 67, North Poplar Bluff, MO 63901	314-785-7721
Poplar Bluff Hospital	215 Oak Poplar Bluff, MO 63901	314-785-7701
Ozark Border Electric Cooperative	P.O. Box 400 Poplar Bluff, MO 63901	314-785-4631
Arkansas Power and Light	P.O. Box 7 Piedmont, MO 63957	314-223-4265
Southwester Bell Telephone Co.	600 West Pine Poplar Bluff, MO 63901	314-686-1404

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VICINITY OF
CARLYLE LAKE, IL
MANAGEMENT OFFICE

618-594-2484

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>
* Illinois State Police	District No. 11, Hdq Collinsville, IL 62234	618-345-1212 *
Carlyle Police	850 Franklin Carlyle, IL 62231	618-594-2488
Clinton County Sheriff	830 Franklin Carlyle, IL 62231	618-594-4555
* Bond County Sheriff	403 South Second Greenville, IL 62246	618-644-2151 *
Fayette County Sheriff	221 South 7th Vandalia, IL 62471	618-283-2141
Carlyle Fire Protection District	850 Franklin Carlyle, IL 62231	618-594-2421
Huey, Ferrin, Boulder	Fire Protection Districts Huey, IL 62252	618-594-2921
* Keyesport	Fire District Keyesport, IL 62253	618-749-5211 *
Emergency Services & Disaster Agency, CD	830 Franklin Carlyle, IL 62231	618-594-4555
Clinton County Highway Department	21st Street Carlyle, IL 62231	618-594-2224
Fayette County Highway Department	Route 185, North Vandalia, IL 62471	618-283-0994
Bond County Highway Department	South 4th Street Greenville, IL 62246	618-664-1144
Illinois Dept. of Transportation, Dist. No. 8	9300 St. Clair Ave. Fairview Heights, IL 62208	618-594-3001
East Clinton Ambulance Service	830 Franklin Carlyle, IL 62231	618-594-4555

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VICINITY OF
CARLYLE LAKE, IL
MANAGEMENT OFFICE
(Continued)

618-594-2484

Community Assistance

Addresses

Telephone Nos:

St. Joseph's Hospital Jamestown Road 618-526-4511
Breese, IL 62230

St. Mary's Hospital 400 North Pleasant 618-532-9954
Centralia, IL 62801

Clinton County Electric 475 North Main 618-526-7282
Cooperative (Emergency Repair) Breese, IL 62230

Illinois Power Co. 520 East Broadway 618-224-4321
(Emergency Repair) Trenton, IL 62293 618-234-3400
(Gas Emergency)

Mayor of Carlyle, IL City Hall, 850 Franklin 618-594-2468
Carlyle, IL 62231

Mayor of Keyesport, IL City Hall 618-749-5552
Keyesport, IL 62253

Fire Protection District Keyesport, IL 62253

Fire District Keyesport, IL 62253

Carlyle, IL 62231

Carlyle, IL 62231

North 185, North Vandavia, IL 62471

South 4th Street Greenville, IL 62444

9300 St. Clair Ave. Fairview Heights, IL 62408

830 Franklin Carlyle, IL 62231

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VICINITY OF
LAKE SHELBYVILLE, IL
MANAGEMENT OFFICE

217-774-3951

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>
Illinois State Police District 11, Hdq	P.O. Box 155 Pesotum, IL 61863	217-867-2211
Shelbyville Police Department	170 East Main Shelbyville, IL 62565	217-774-2141
Shelby County Sheriff	Courthouse Shelbyville, IL 62565	217-774-3941
Moultrie County Sheriff	14 North Hamilton Sullivan, IL 61951	217-728-4386
Shelbyville Fire Department	142 Morgan Shelbyville, IL 62565	217-774-2121
Sullivan Fire Department	115 West Harrison Sullivan, IL 61951	217-728-4341
Shelbyville Water Department	170 East Main Shelbyville, IL 62565	217-774-5131
Sullivan Water & Light Department	517 West Water Sullivan, IL 61951	217-728-4932
Shelby Co. Rescue Squad	Courthouse Shelbyville, IL 62565	217-774-5003
* Shelbyville Disposal Plant	S. Hickory Shelbyville, IL 62565	217-774-2712 *
Sullivan Disposal Plant	Rural Route 1 Sullivan, IL 61951	217-728-8421
* Shelby Memorial Hospital	200 South Cedar Shelbyville, IL 62565	217-774-3961 *
Shelby Electric Co.	North Route 128 Shelbyville, IL 62565	217-774-3986
Central Illinois Public Service (Gas & Elec)	1501 West Main St. Shelbyville, IL 62565	217-774-5536

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**VICINITY OF
REND LAKE, IL
MANAGEMENT OFFICE**

618-724-2493

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>
Illinois State Police District 13 Hdq	Du Quoin Office Du Quoin, IL 62832	618-542-2171
Benton Police Department	500 West Main Benton, IL 62812	618-435-8131
Sesser Police Department	Village Hall Sesser, IL 60549	618-625-2441
* Christopher Police Department	221 West Market Christopher, IL 62822	618-724-2828 618-724-2432 *
West City Police Department	406 South Central Benton, IL 62812	618-435-6112
* Mt. Vernon Police Department	Mt. Vernon, IL 62864	618-242-2131 *
Franklin County Sheriff's Department	Franklin Co., IL 60146	618-438-4841
Jefferson County Sheriff's Department	Jefferson Co., IL 61062	618-242-2141
U.S. Marshall's Office	301 West Benton Benton, IL 62812	618-439-6442
Benton Fire Department	105 North Maple Benton, IL 62812	618-439-6331
Sesser Fire Department	Route 148 Sesser, IL 60549	618-625-2441
Buckner Fire Department	221 West Market Christopher, IL 62822	618-724-2408
West City Fire Department	406 South Central Benton, IL 62812	618-438-2111
* Jefferson County Fire Protection District	1100 Main St. Mt. Vernon, IL 62864	618-242-2151 618-242-3824 *

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VICINITY OF
REND LAKE, IL
MANAGEMENT OFFICE
(Continued)

618-724-2493

Community Assistance

Addresses

Telephone Nos:

Franklin Co. Civil
Defense

R.R. #2
West Frankfort, IL 62896

618-937-1566

Mt. Vernon Civil
Defense

1100 Main St.
Mt. Vernon, IL 62864

618-242-5050

Jefferson Co. Civil
Defense

1600 South 10th St.
Mt. Vernon, IL 62864

618-244-0123

State of Illinois, EPA

601 North 18th St.
Mt. Vernon, IL 62864

618-242-4271

Ewing-Ina Water
Commission

Whittington, IL 62897

618-629-2221

Benton Water
Department

City Hall
Benton, IL 62812

618-438-5811

* Christopher Water
Department

221 West Market
Christopher, IL 62822

618-724-2011 *

Sesser Water
Department

302 West Franklin
Sesser, IL 60549

618-625-3611

Rend Lake Conservancy District,
Inter-City Water System

Marcum Branch Rd.
Benton, IL 62812

618-439-4394

Mt. Vernon Utility
Department (includes Public
Works, Water, Sanitation,
Sewer and Waste Water)

410 North 20th
Benton, IL 62812

618-242-5000

Benton Sewage Treatment
Plant

R.R. #1
Benton, IL 62812

618-439-3542

Sesser Waste Water
Plant

R.R. #1
Sesser, IL 60549

618-625-6410

* Franklin County
Ambulance Service

221 West Market
Christopher, IL 62822

618-724-7811 *

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VICINITY OF
REND LAKE, IL
MANAGEMENT OFFICE
(Continued)

618-724-2493

<u>Community Assistance</u>	<u>Addresses</u>	<u>Telephone Nos:</u>
* Tri-State Ambulance	408 E. Main Benton, IL 62812	618-439-3667 *
Ambulance Service Fry & Frick Funeral Home	P.O. Box 121 Waltonville, IL 62894	618-279-7272
Litton Ambulance Service	809 South 17th St. Mt. Vernon, IL 62864	618-244-3111
* Good Samaritan Hospital	605 North 12th St. Mt. Vernon, IL 62864	618-242-4600 *
Franklin Hospital	201 Bailey Lane Benton, IL 62812	618-439-3161
Central Illinois Public Service Co. (Elec)	116 East Main Benton, IL 62812	618-438-7911
Illinois Power Co. (Elec & Gas)	2610 Broadway Mt. Vernon, IL 62864	618-242-1085
Southeastern Electric Cooperative	P.O. Box 251 Eldorado, IL 62930	618-273-2611
General Telephone Company	P.O. Box 149 Marion, IL 62959	618-997-0881 (Repair) 618-997-0211
Illinois Division of Highways	Route 14 Benton, IL 62812	618-438-4891
Franklin County Highway Department	202 West Main Benton, IL 62812	618-439-0331
Illinois Department of Highways	Fountain Place East Mt. Vernon, IL 62864	618-242-0051
Mt. Vernon Township Highway Department	700 George Street Mt. Vernon, IL 62864	618-244-0045
Benton City Clerk's Office (Mayor)	City Hall Benton, IL 62812	618-439-0421

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**VICINITY OF
REND LAKE, IL
MANAGEMENT OFFICE**

618-724-2493

(Continued)

Community Assistance

Addresses

Telephone Nos:

Buckner Mayor's Office

**City Hall
Buckner, IL 62812**

618-724-7501

West City Mayor's Office

**City Hall
Benton, IL 62812**

618-438-6131

**Mt. Vernon Township
Supervisor**

**811 Harrison St.
Mt. Vernon, IL 62864**

618-244-3463

Village of Bonnie

**City Hall
Bonnie, IL 62816**

618-242-5646

**Franklin County
Circuit Court**

**Courthouse Bldg.
Benton, IL 62812**

618-438-3311

618-438-7311

115 East Main
Benton, IL 62812

618-244-1085

2810 Broadway
Mt. Vernon, IL 62864

618-242-3011

P.O. Box 257
Litchfield, IL 62551

618-244-0081

P.O. Box 11
Benton, IL 62812

618-438-4891

Route 1A
Benton, IL 62812

618-438-0231

103 West Main
Benton, IL 62812

618-244-0051

Houndtail Place East
Mt. Vernon, IL 62864

618-244-0045

100 George Street
Mt. Vernon, IL 62864

618-438-0451

City Hall
Benton, IL 62812

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CHAPTER 3
REGIONAL AND NATIONAL RESPONSE
CENTERS, ACTIVITIES AND COORDINATION

3-1. EMERGENCY RESPONSE ACTIVITIES AND COORDINATION. Most oil or hazardous materials release emergency response activities in Region VII and Region V, initial on-site activities are conducted by appropriate state personnel. Federal on-scene coordination is accomplished through the OSC, when necessary, to support state response for major incidents. The OSC reports to, and receives advice from an RRT composed of appropriate representatives from the regional and district offices of the participating agencies and State and Local Governments.

3-2. THE PREDESIGNATED FEDERAL OSC'S for spills occurring within the boundaries of Federal Region VII applicable to their Regional Plan are located at the Regional Response Center, EPA, Kansas City, Kansas and include:

Phil Keary	Bill Keffer	Mac Castor	Jeff Weatherford
Gary Snodgrass	Paul Doherty	Gary Kepko	Bruce Morrison
Dan Harris	Ron McCutcheon	Jim McDonald	

The predesignated OSC's can be contacted at the Regional Response Center in Kansas City by calling 913-236-3778.

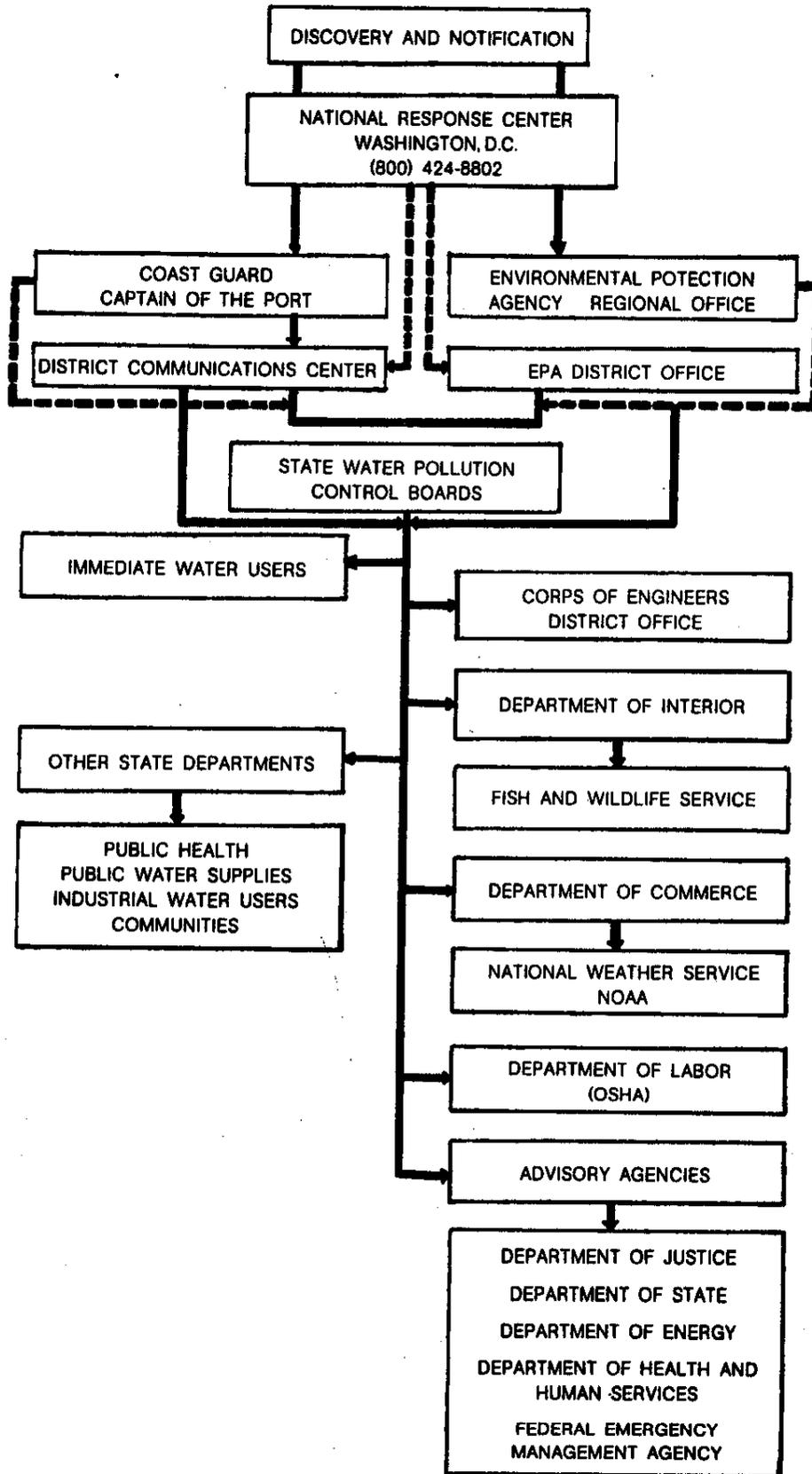
The predesignated Federal OSC's for spills occurring within the boundaries of Federal Region V applicable to their Regional Plan are located at the spill Response Section, EPA, Chicago, Illinois and include:

Robert Bowden	William Simes	Briand Wu
Charles Castle	Jack Barnette	Ken Pheisen
George Madney	Steve Browning	

The predesignated OSC's can be contacted at the Regional Response Center in Chicago by calling 312-353-2318.

3-3. NATIONAL RESPONSE CENTER. The NRC, located at Headquarters, USCG, is the Washington, D.C. headquarters site for activities relative to oil or hazardous materials release emergencies. NRC headquarters, described in subpart c of the National Plan, provides communications, including a continuously-manned communication center, information storage, and necessary personnel and facilities to promote the smooth and adequate functioning of this activity. The NRC maintains the basic national reporting service for notifications and these reports to appropriate states and EPA and USCG district or regional offices.

Note: See "General Alerting Procedure" next page.



GENERAL ALTERING PROCEDURE

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CHAPTER 4
OIL AND HAZARDOUS MATERIALS
NOTIFICATION AND REPORTS

4-1. GENERAL. Initial incident notifications are commonly received by telephone by NRC, EPA, Spill Response. State Emergency Response 24-hour notification numbers for the lead agencies within Region VII and Region V areas follows:

In Missouri - Missouri Department of Natural Resources
314-634-2436 - Key Contact - Dean Martin

In Illinois - State of Illinois Emergency Services
or Disaster Agency - 217-782-7860 or
Illinois Environmental Protection Agency
217-782-3637 - Key Contact - John Perry

- A. Minor Spills: The notified agency duty officer should report all minor spills to the Regional Response Center. This may be accomplished by prompt telephone messages supplemented by monthly summary reports or solely by the monthly summaries. Summaries of minor spill reports will be made on a quarterly basis and transmitted to the EPA Emergency Response Division (ERD), state agencies and other interested parties. Local government and public safety officials are notified as appropriate. (Greater than 0 to 1,000 gallons for petroleum products.)
- B. Medium Spills: The notified agency should report all medium spills to the Regional Response Center. This should be accomplished as soon as practicable by teletype message or telephone. Transmittal of medium spill reports should be made in POLREP format to NRC and ERD on a continuing basis. Further notice to involved or interested parties will be accomplished by the EPA Regional Response Center as indicated by the situation. (Medium spill 1,000 to 10,000 gallons for petroleum products.)
- C. Major Spills: The notified agency should immediately report all major or potential major spills to the Regional Response Center. This should be accomplished immediately by telephone and verified by teletype message. The RRC should immediately notify the EPA Regional Administrator and the RRT. Transmittal of major spill reports should be made on a continuing basis to the NRT and ERD by teletype message. (10,000 gallons or more.)
- D. National Level Telephonic Notification: During working hours and after hours and on weekends and holidays, the NRC can be notified by contacting the Duty Officer, U.S. Coast Guard Headquarters, Washington, D.C. at 1-800-424-8802. Telephone notification received by the NRC will be evaluated by the Coast Guard member of the NRT. Notification of the remainder of the NRT will be considered when appropriate.

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E. Regional Response Team Notification: Telephonic notification of all reports of a major or potential major release and all oil or hazardous materials incidents received by the RRC will be evaluated by the EPA member of the RRT. Notification of the remainder of the RRT will be formally accomplished by the EPA member of the RRT, if considered appropriate. However, individual agencies may elect to notify their respective RRT representatives through in-house communication channels upon learning of the details of the release through the normal alerting procedures for the region.

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NOTIFICATION OF
OIL/HAZARDOUS MATERIALS DISCHARGE REPORT

District: _____

Number: _____

1. DATE _____ TIME _____ EOM/ALTERNATES _____ VIA _____

2. PERSON REPORTING/TITLE _____ TELEPHONE:() _____

ORGANIZATION _____

ADDRESS _____

3. PROJECT (NEAREST CITY, COUNTY AND STATE) _____

EVACUATION REQUIRED: (If yes, how many victims, area affected, location
and miles.)

4. TIME/DATE OF INCIDENT (SPILL) _____

5. BODY OF WATER AFFECTED _____

6. PERSONNEL AT THE SCENE: (OSC) _____

7. SHIPPER/MANUFACTURER IDENTIFICATION: _____

CONTAINER TYPE: _____

VESSEL & BARGE/RAILCAR IDENTIFICATION NO: _____

PLACARD/LABEL INFORMATION: _____

8. MATERIAL _____ 9. QUANTITY DISCHARGE _____

10. QUANTITY IN WATER/SLICK SIZE AND COLOR _____

11. DIRECTION OF MOVEMENT, WIND SPD/DIR OR CURRENT FORCE (MPH) _____

12. OTHER AGENCIES NOTIFIED BY CALLER _____

13. NOTES: (Federal, State and Community assistance at the scene)

14. ACTIONS TAKEN BY EOM/ALTERNATES: _____

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4-2. POLREP (POLLUTION INCIDENT REPORTS) FORMAT AND PROCEDURES:

a. Message Format:

FROM: CDR USAED STL MO//LMSOD-E//
TO: COGUARD, NATL RESPONSE CENTER//WASH DC//
CDR USAED LMV VICKSBURG MS//LMVCO-E//
INFO: CDR USACE WASH DC//DAEN-CWO-EO//
COMMANDANT U.S. COAST GUARD, WASH DC
CDR SECOND COAST GUARD DIST, STL MO
DEPT OF TRANSPORTATION, WASH DC
DEPT OF DEFENSE, WASH DC
DEPT OF INTERIOR, WASH DC
DEPT OF COMMERCE, WASH DC
DIR, USEPA, NATL HQ, WASH DC
DIR RGN 7 USEPA, KANSAS CITY, KS
DIR, FEMA, NATL HQ, WASH DC
DIR, RGN 7 FEMA, KANSAS, MO
DIR RGN 5, USEPA, CHICAGO, IL
DIR RGN 5, FEMA, CHICAGO, IL
CG FOURTH ARMY, FT. SHERIDAN, IL
CG FIFTH ARMY, FT SAM HOUSTON, TX
DIR, STATE OF MO EMERG MGMT AGCY, JEFFERSON CITY, MO
DIR, MISSOURI DEPT. OF NATURAL RESOURCES
DIR, ESDA, SPRINGFIELD, IL
ILLINOIS, EPA, SPRINGFIELD, IL

b. Message Procedures: The pollution format procedures should consist of six basic sections including the oil and hazardous material, action, plans, recommendations and status.

(1) Oil and Hazardous Materials. The oil and hazardous materials section should provide the full details on the spill including location, what happened, type and quantity of material, who is involved, extent of coverage, times, areas threatened, predicted movement, success of control efforts, and prognosis.

The type of material would include the general nature or characteristic such as persistent or nonpersistent oil, toxic material, or corrosive matter. If known, type would also include the specific nature of the material, e.g., gasoline, benzene, sodium cyanide, or sulfuric acid.

(2) Action. The action section should include a summary of all actions taken by the responsible party, state and local forces, the federal government, or by others.

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(3) Plans. The plans section should include all planned action by the responsible party, state and local forces, and any other Federal agencies involved.

(4) Recommendations. Any recommendations that the OSC has pertaining to the response should be included in this section.

(5) Corps of Engineers involvement. Any corrective actions or types of equipment and personnel utilized in assisting at the scene of the incident.

(6) Status. The status section would indicate case closed, case pends, or federal participation terminated, as appropriate.

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CHAPTER 5
OTHER EMERGENCY INFORMATION SOURCES

5-1. TECHNICAL ASSISTANCE AND INDUSTRIAL RESPONSE TEAMS:

- a. CHEMTREC 1-800-424-9300 (24 hr.)
- b. National Poison Center 1-800-228-9515 (24 hr.)
- c. National Chlorine Institute CHLOREP (Chlorine Emergency Response Team) 1-800-424-9300 (24 hr.)
- d. Pesticide Safety Team Network 1-800-424-9300 (24 hr.)
- e. Explosive Emergency Center (Railroad Emergency Response Team) 202-293-4048

5-2. HAZARDOUS MATERIALS EMERGENCY RESPONSE GUIDEBOOK, DOT-P 5800.3.

a. Lock and Dam personnel along with Lake Management Project personnel should become familiar with the contents of this guidebook.

b. This guidebook is intended to provide guidance primarily during the initial phases following an incident.

c. For normal information concerning the Chemical Transporting Emergency Center, located in Washington, D.C. call 202-887-1255.

d. Contractors normally involved in recovery system for oil/petroleum products and hazardous materials are as follows:

(1) Environmental Emergency Services Co.
Division of Riedel International, Inc.
St. Louis Division
529 Spirit of St. Louis Blvd.
Chesterfield, MO 63017
314-532-7560
1-800-547-0792 (24 hr. service)

(2) REACT
2208 Welsh Industrial Court
P.O. Box 27310
St. Louis, MO 63141
314-569-0991 (also 24 hr. service)
1-800-325-1398 (for Illinois)

(3) Olson Deane Co., Inc.
1850 Walton Road
St. Louis, MO 63114
314-428-7870
618-254-4874 (for Illinois)

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CHAPTER 6 CLEANUP TECHNIQUES AND POLICIES

NOTE: The cleanup techniques and policies contained in this Plan are those recommended by various EPA/USCG Regional Response Teams (RRT).

6-1. **GENERAL.** In spite of the precautions taken by most companies, corporations and individuals, oil and hazardous substances will continue to be discharged, causing damage to the environment. Since the type, location and magnitude of discharges can vary so greatly, the following information is presented to furnish general guidance on usable techniques for containment and cleanup operations which begin immediately after detection of a discharge.

6-2. **POLICY.** It is the policy of the RRT to attempt mechanical recovery of all spilled oil or hazardous substances to the largest extent possible. Dispersants and chemical agents are to be used only after approval in those cases where mechanical removal is not feasible. Removal is always performed with the intent of re-use of the recovered material. When re-use is not practical, the development of a stable, or easily bio-degradable end product is emphasized.

6-3. SAFETY.

a. **Public Safety.** Spills of oil and hazardous substances can pose a significant threat to the safety and health of any individuals who may come in contact with the spilled substances accidentally or through response, cleanup or disposal actions. While the greatest exposure risk lies with the response and cleanup personnel, there is also a risk to the general public, through unknowing exposure to spilled hazardous substances. Personnel safety considerations are paramount until spill effects are mitigated or residues finally disposed. Protection of the health and safety of these individuals can be greatly enhanced by early coordination with, and requesting assistance from the following groups:

(1) Fire Departments - Can provide significant expertise and assistance in controlling flammable and explosive substances and effecting vapor suppression at the spill site.

(2) Police Departments - Can provide isolation of the spill site, effective crowd control and resources for evacuation of downstream and downwind residents.

(3) Public Works Departments - Can greatly assist in tracking and locating spills which enter storm and/or sanitary sewer systems, alerting waste treatment plants to minimize spill damage to these facilities, alert

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residents to hazards from gases or vapors which may enter their homes via sanitary sewers, and in obtaining permission to utilize stand-by clarifiers, tankage, etc., for temporary containment.

(4) Hospital, Clinics and Medical Centers - Can provide assistance in determining health effects, and providing emergency treatment for response personnel or members of the general public inadvertently exposed to the spilled substance.

b. Response Personnel Safety. Personnel responding to a spill incident experience the greatest exposure risk. The hazards associated with spill response can be minimized by developing and maintaining an inventory of protective equipment and establishing general guidelines and procedures for response actions. Protective clothing consisting of gloves, rubber boots and coveralls may be sufficient to protect individuals responding to oil spills, whereas portable communication units, special protective clothing, self contained breathing units and a thorough knowledge of protective equipment limitations must be available to individuals responding to hazardous substance spills.

General procedure to be observed during any spill response may include, but are not limited to:

(1) Unless the spill involves a known substance, approach on the assumption that the material is EXTREMELY HAZARDOUS.

(2) Always approach a spill site from upwind with a predetermined escape route established.

(3) Avoid contact with the spilled material, contaminated containers, wreckage, debris, etc., as much as possible.

(4) DO NOT SMOKE and have all possible ignition sources removed.

(5) Restrict access to the spill area by roping or barricading the entire spill area and establishing one, easily controlled, point of entry.

(6) If unidentified fuming liquids or gases are present, DO NOT approach the area.

(7) Establish a "buddy system" and rescue mechanism so that one person can safely and quickly extricate his "buddy," who has entered the spill area, without endangering himself.

(8) Establish reliable communications between persons entering the spill area and those remaining outside.

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(9) Locate, identify and inform the nearest source of medical aid.

(10) If injuries or fatalities are involved, alert the medical personnel of the transporting unit and at the destination point of proper protection and/or decontamination procedures and all available information about the materials involved.

6-4. RESPONSE AND CLEANUP TECHNIQUES. Due to the nature of spill incidents, several of the following activities may occur simultaneously.

a. Identification. Appropriate containment, removal and disposal of spill substances can only be accomplished after the substance has been positively identified. Identification can be accomplished by several processes such as:

(1) Examination of shipping manifests.

(2) If shipping manifests are not available, contact the shipper for appropriate material information.

(3) Notation of the type of conveyance such as tank truck, box cars, tank cards, etc., along with any exterior placards or container labels, type of packaging (55 gallon drum, 50 pound bag, etc.) and the physical state (solid, liquid, fuming liquid, gas, etc.) of the material.

(4) Sampling and testing of the material, using any available equipment such as PH meters, Hach test kits, etc., should be performed and the results correlated with the information obtained in (3) above.

(5) If a professional laboratory is nearby, samples can be submitted for analytical identification.

b. Location. The physical location of the spilled substance will greatly affect the general approach to containment and the removal activities which follow.

(1) On Land. Spills occurring on land may be contained or isolated by employing physical flow barriers. These include, but are not limited to, use of trenches, dikes or berms, or diversion and deflection items such as poles, planking, etc., to impound or divert the flow of material to a temporary holding area. Dry materials may be covered with a tarpaulin or sheets of plastic to prevent disturbance and dispersion by wind or rain.

(2) On Water. Substances which float on the water can be contained with booms made with material such as hay, straw, log, plastic, rubber or special sorbent materials or a specially constructed barrier to surface flow. The basic problem associated with boom containment may be the

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compatibility of the boom with the hazardous substance. Many substances which float on water can exhibit a solvent action on some boom material and could actually dissolve the containment device before cleanup can be effected.

(3) Water Soluble. Hazardous substances which dissolve in or become suspended throughout the water column are some of the most difficult spills to contain. Containment, if possible, usually involves the total isolation, immobilization, removal or filtration of the affected water body.

(4) Heavier Than Water. Substances with densities greater than water will be located at or near the stream bed. Containing such spills requires locating the substance and determining the total area contaminated by the substance. Containment involves isolation of the material by sealed booms, siphon dam, subsurface damming, trenching, or subsurface diversion of the migrating material to stream bed depressions, quiescent or backwater areas.

(5) In Air. Containment of gaseous discharges can be extremely difficult, if not impossible. Gaseous materials having densities greater than air will normally flow along the ground surface and concentrate in depressions. Those whose density is less than air will quickly disperse upward and outward.

c. Containment. After identifying and locating the spill, the necessity for and feasibility of effective containment can be assessed. Containment must be initiated as soon as possible to prevent undue spreading of the area of contamination.

The first action should be the elimination of any additional spillage. This may be accomplished by shutting off a pump or valve, placing a cap or a plaster or epoxy patch over the leak, shoving a temporary plug in a puncture or tear, uprighting an overturned container or other appropriate action.

Given enough leadtime, commercial containment equipment can be found and utilized, however, expedient and innovative use of materials at hand, as explained below and depicted on Plates 1 thru 9, can significantly reduce the spread of contamination. Containment techniques and equipment include, but are not limited to:

(1) Trenching and Diking - This technique consists of digging a trench and/or establishing an earthen dike to contain or divert a liquid substance to a temporary basin or to isolate a containment area from precipitation run off.

(2) Siphon Dam - For use in the control of floating contaminants, an earthen dam is constructed across a water channel. The dam is perforated with one or more pieces of inclined pipe or T-sections which allow water to pass through the dam while retaining the spilled substance. The pipe size and/or number must be sized for anticipated stream flow.

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(3) Filter Fences - Are used primarily in controlling the migration of floating substances in ditches and streams where the water depth does not exceed four feet. Filter fences are easily constructed using steel fence posts spaced at 8-10 foot intervals across the drainage. Hardware cloth, chicken or hog wire or chain link fencing is then tied to the posts, leaving at least one foot of wire above the water level as free board, and the ends securely anchored at each bank. Hay, straw (to a depth of six inches) or commercial sorbents (to cover the water surface) are spread across the width of drainage and upstream for at least 10-15 feet. Entrained or dissolved substances can be contained and/or removed by replacing the floating sorbents with bags or bales of filter media (peat moss, activated carbon, diatomaceous earths, etc.). This approach can significantly reduce downstream contaminate concentrations in the affected water body. Filter fences are most effective when used in series of three or more with adequate work space between each. Filter fences require constant attention so that saturated sorbent can be removed and replaced with fresh sorbent.

(4) Booms - These flow barriers are deployed in a lake, across a stream or ditch, along shorelines, or around a leaking vessel. The boom consists of a flotation collar and a weighted skirt. Specialized booms having a skirt capable of reaching the stream bed are commercially available and are referred to as sealed booms. A boom can be easily constructed using bales of hay or straw, logs, or pieces of lumber with plastic sheeting weighted with fishing sinkers, etc., and rope. The rope is used to lash the boom together, as well as to secure the boom during deployment. This technique is effective for spills floating on the water or, in case of sealed booms, dissolved, dispersed or heavier than water substances. Booms do not function well in stream currents greater than 2 knots or in the presence of debris or ice.

(5) Water Sprays - This technique consists of fine water sprays, such as those generated by firehose nozzles, preferably coupled with foaming agent directed in, over or through fume or gas clouds. The water flushes the substance from the air and the foam forms a vapor barrier as the material collects on the ground. This technique is effective on spills of gases and fuming liquids. Containment for the material (water, foam and pollutant) must be provided.

(6) Stream Diversion or Impoundment - This technique consists of excavating a new stream channel around the contaminated area with the construction of dams above and below the spill area to divert the uncontaminated water through the new channel or by use of Crisifoli type pumps and irrigation pipes or culverts. A large lead time is required for this technique.

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(7) Gelling and Chemical Agents - These materials effect containment or removal by combining with the spilled substance to form:

- (a) a semi-solid gel,
- (b) an emulsion soluble in water, allowing the spill to disperse throughout the water column, or
- (c) an alteration of surface tension, driving the spilled material together to prevent spreading.

NOTE: Use of these agents must be approved by the Regional Response Center (RRC).

d. Removal. Once the substance has been contained, removal can begin. Removal techniques can be divided into two general classes: mechanical and physical-chemical. In many spill situations, techniques from each class may be used simultaneously or in conjunction.

(1) Mechanical Removal. These techniques are quite effective in spills involving floating substances, substances heavier than water and spills on land. Equipment and techniques employed must be compatible with the substances' physical characteristics such as flammability, corrosiveness, ability to be pumped, solvent action, etc. These characteristics, along with the substance's toxicity, will govern the protective clothing and equipment required by the individuals working in the spill area to adequately protect their health and insure safety. Mechanical removal devices and techniques include:

(a) Skimmers - These devices are designated to take in a floating substance off the surface of water. They can be used in conjunction with suction/discharge pumps and require a holding tank to contain the removed substance. Units are available, such as vacuum trucks, which contain all necessary components.

(b) Sorbents - These materials are manually distributed over the spill and manually collected once they have absorbed the substance. The most commonly used sorbents are hay and straw. Commercial sorbents are available in bags, pads and boom structures, however, these materials have been treated to repel water, a polar compound, and may be ineffective for certain substances exhibiting similar polar characteristics.

(c) Dredging - This technique is similar to skimming, except removal occurs under water rather than at the surface. Suction heads or nozzles, pumps and holding tanks make up the dredge unit. This technique is effective for substances heavier than water.

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(2) Physical - Chemical Removal. This technique takes advantage of the physical and chemical characteristics of the substance to remove or render the material inactive (i.e., make insoluble, make bio-degradable, de-toxify, etc.). Physical-chemical removal requires laboratory services to monitor initial spill concentrations, concentrations during the various stages of removal and final concentrations. This monitoring assures that the desired result has been achieved and allows adjustments to be made in the removal operations to maximize the effectiveness of the removal operations. Physical-chemical treatment techniques and devices include, but are not limited to:

(a) Activated Carbon - This material has the capacity to absorb a wide range of substances. Packages of activated carbon can be used to construct filter fences, allowed to float in the contaminated area or used as a filter column through which the contaminated water is passed to remove the contaminating substance.

(b) Neutralization - This process involves the addition of mild caustic material to acid spills or mild acids to caustic spills. Occasionally a precipitant will form from this reaction. This precipitant should be removed. Empirical formulas for the spilled material and treating agents will provide the necessary information regarding volume of treating agent needed to neutralize the spill.

(c) Physical/Chemical Treatment - These methods range from simple carbon absorption, as described above, through complex mixed batch or flow through treatment schemes. Complex treatment systems usually require removal and storage of the contaminated water. Various adjustments and refinements, based on chemical tests of the effluent for desired treatment efficiency, must be made. Commercial physical-chemical treatment units are available. These include activated carbon units, ion-exchange resin columns, diatomaceous earth filtration units, oxidation-reduction, neutralization or flocculation units. All of these items may be used singularly or in conjunction with each other to effect removal. Sound chemical knowledge or expertise is required to establish and operate effective treatment units such as these. As mentioned above, analytical laboratory capabilities must be available for pre-testing, intermediate phase testing and unit effluent testing to assure that the desired removal performance has been accomplished.

(d) Packaged Treatment Units - Several mobile treatment units have been developed in recent years. The cost and time required to bring any of these units on-scene requires total containment of the spill, as well as an inability to develop a treatment process with available materials. More information regarding these units and their availability can be obtained from the Regional Response Center.

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(e) Available Material - Usually an adequate treatment system can be developed using available materials. Containment can be achieved with empty tank trucks, pre-fabricated swimming pools available from department stores or, if necessary, clarifiers at a treatment plant. Neutralizing agents in the form of vinegar, lye, etc., are commercially available. Hospitals, refineries and chemical supply companies can provide these, as well as more sophisticated chemicals in less time usually than a packaged treatment unit can be obtained. Mixers, stirrers, etc., can be fabricated from pipe, lumber and electric motors. The motors and generators can be obtained through local rental agencies.

e. Disposal. The final operation in spill response and cleanup is the disposal of the collected materials. Any plan for disposal must be coordinated through the RRT and the State Representative. Methods for disposal include:

(1) Recycling recovered materials to nearby refineries, re-finers or waste recovery plants.

(2) Land farming of oil, which entails spreading a thin layer of the oil or oily waste over a land area, tilling the oil into the soil, seeding and fertilizing the area with nitrogen fixing grasses and fertilizers to promote the growth of soil organisms which then breaks down the oil. This method of disposal requires extensive participation by the State and Soil Conservation Service, as well as long term monitoring to assure that the oil or oily waste is being accurately broken down.

(3) Land filling, which entails disposing of the material at an approved landfill site. Procedures and sites available will be designated by the appropriate State agency.

(4) Burning may be performed after obtaining permission to burn from the appropriate state air pollution control agency.

(5) Permanent disposal for designated hazardous substances shall be directed by the RRT.

6-5. SPECIAL CONSIDERATIONS. Certain precautions must be taken during each spill incident to adequately assure protection of certain areas not previously addressed. These areas include:

a. Ground Water Contamination - Since many individuals and municipalities utilize ground water aquifers as a source for their drinking water supply, every effort should be made to prevent oil or hazardous substance spills from migrating into these underground aquifers. Such protection may necessitate drilling test wells adjacent to the spill site to

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test the ground water, assuming that contamination has not occurred. If the spill should enter the ground water, several methods are available to remove the material. The methods include:

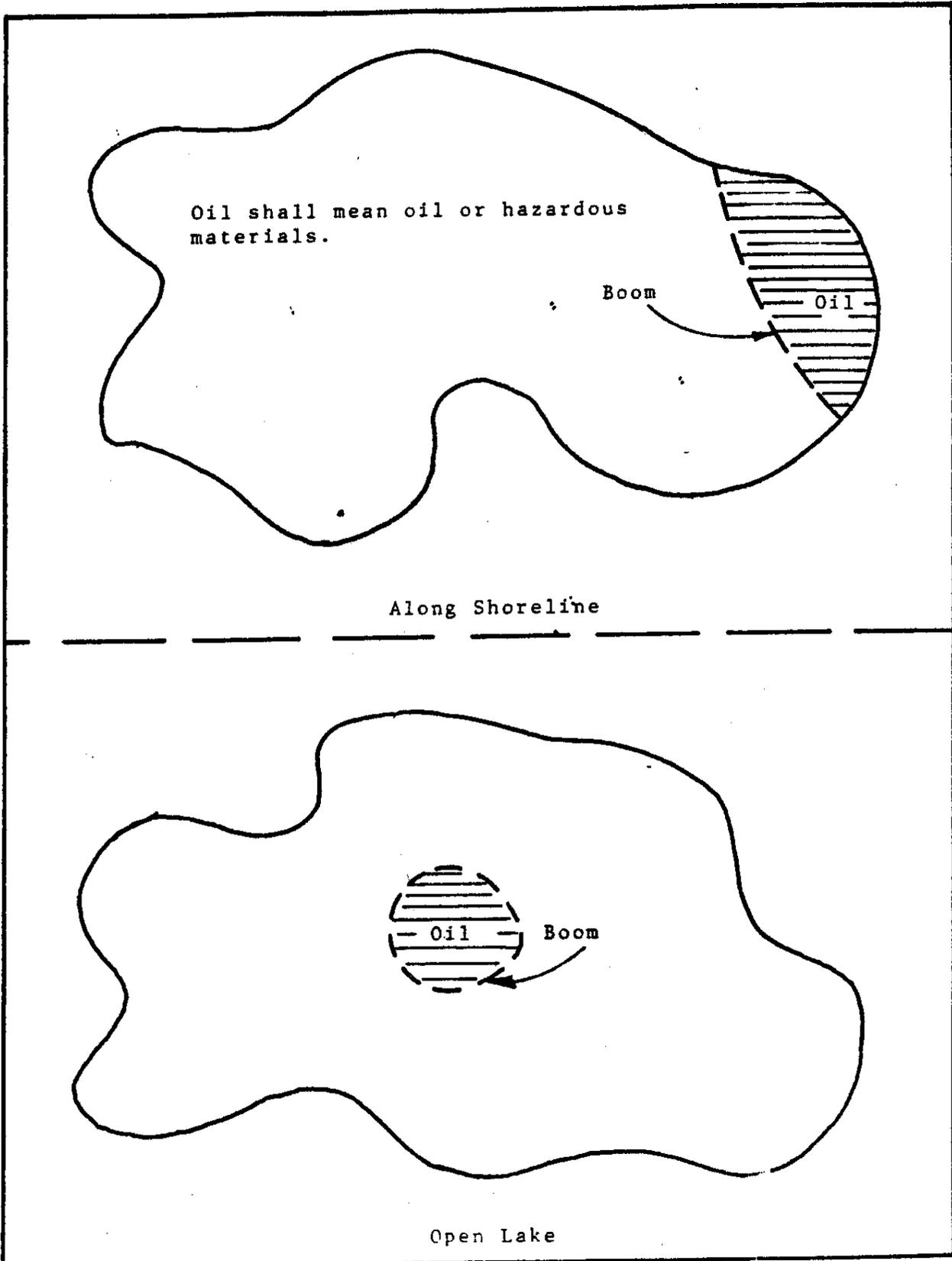
(1) Trenching - This method is effective in areas having shallow ground water tables. A trench is excavated across the plane of ground water flow at a sufficient distance downstream of the zone of contamination plume in the ground water. An impermeable barrier (plastic, bentonite, etc.) is placed on the downstream side of the trench. The contaminated ground water is allowed to collect in the trench and the pollutant is removed by the most appropriate method discussed earlier.

(2) Withdrawal Wells - This method is effective in areas having deep ground water tables and areas where soil characteristics preclude trenching. One or more wells are sunk in or around the area of contamination. The contaminated ground water is pumped from the well or wells and treated by the most appropriate method discussed earlier. As the contaminated water is removed, a cone of depression is created, providing containment of the polluting substance. An alternate method, effective for substances floating on the water surface, uses a skimming device in the well. The contaminated ground water is allowed to collect in the well and the floating contaminant is skimmed from the surface of the ground water, pumped to surface storage and recovered, or disposed of as discussed earlier.

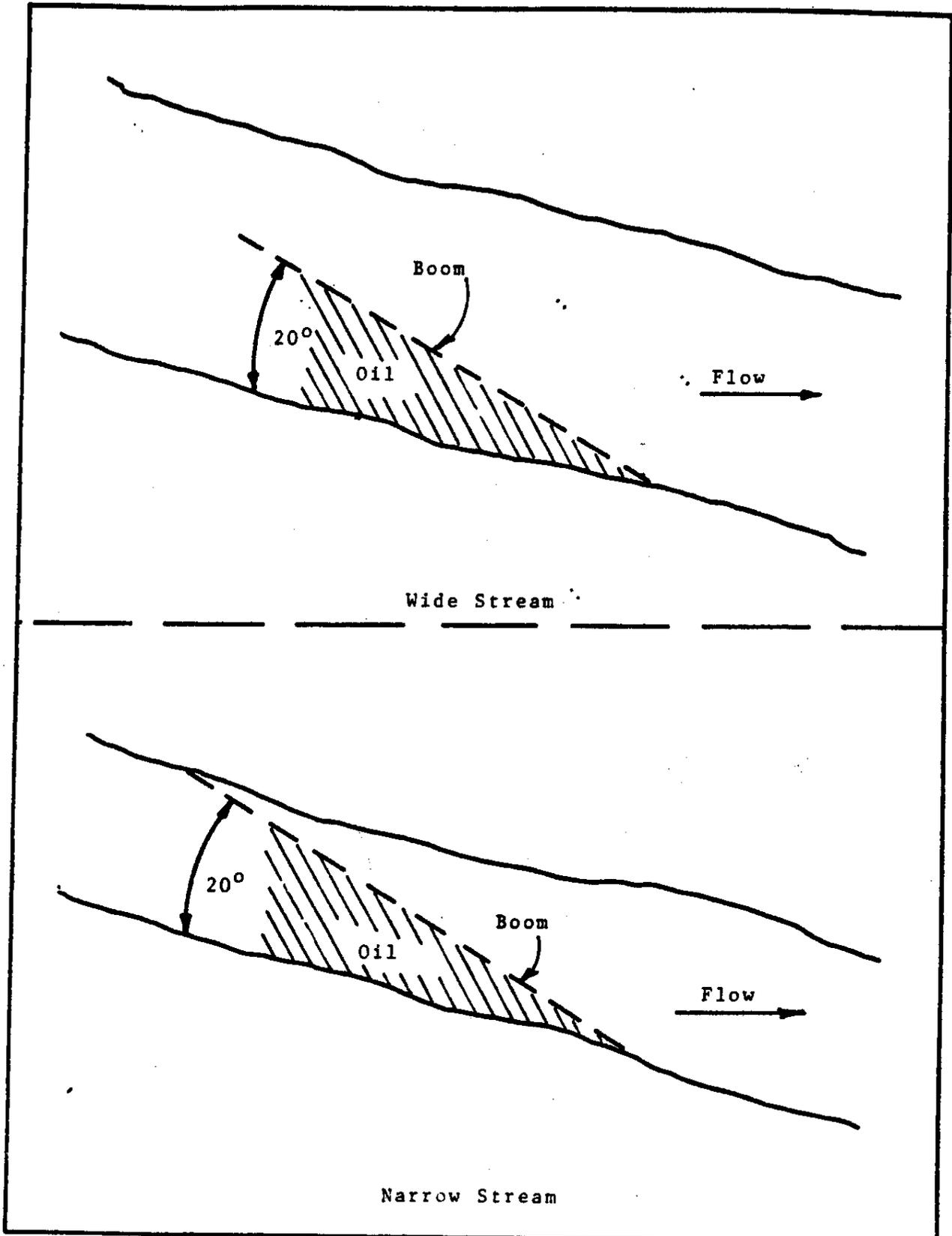
(3) Bio-degradation - This method is still in the research phase, but field tests in actual spill situations have proven the method to be highly effective. Specific micro-organisms are injected into the area of contamination. The micro-organisms use the contaminant as nutrients for growth and reproduction. The organisms move with the contaminant and consume it. Once the contaminant is removed, the organisms die off. Major problems still to be resolved are the slimes created when the organisms die and the taste and odor problems in water caused by the activities and death of the organisms. Use of this method must have RRC approval.

b. Transportation of Spill Waste - In order to minimize the spread of environmental contamination during transportation of spill waste to disposal sites, every effort should be made to assure that whatever means of shipment is employed will not result in leakage of material during transportation and that adequate covers are placed over the materials to prevent wind induced spreading of the material.

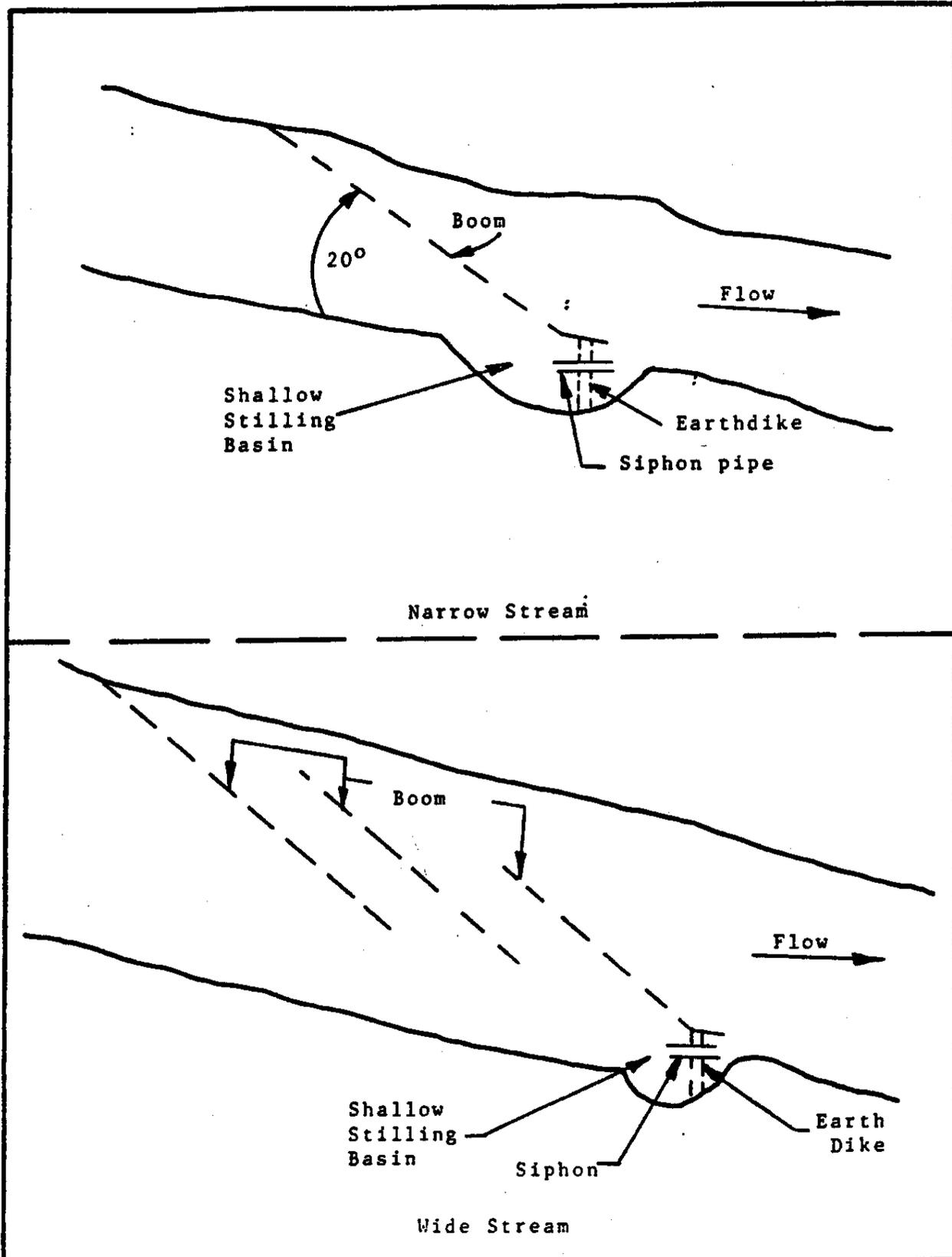
c. Debris - Should be collected and stored in a lined storage area so that the spilled substance can drip off of the debris and be recovered to the largest extent possible.



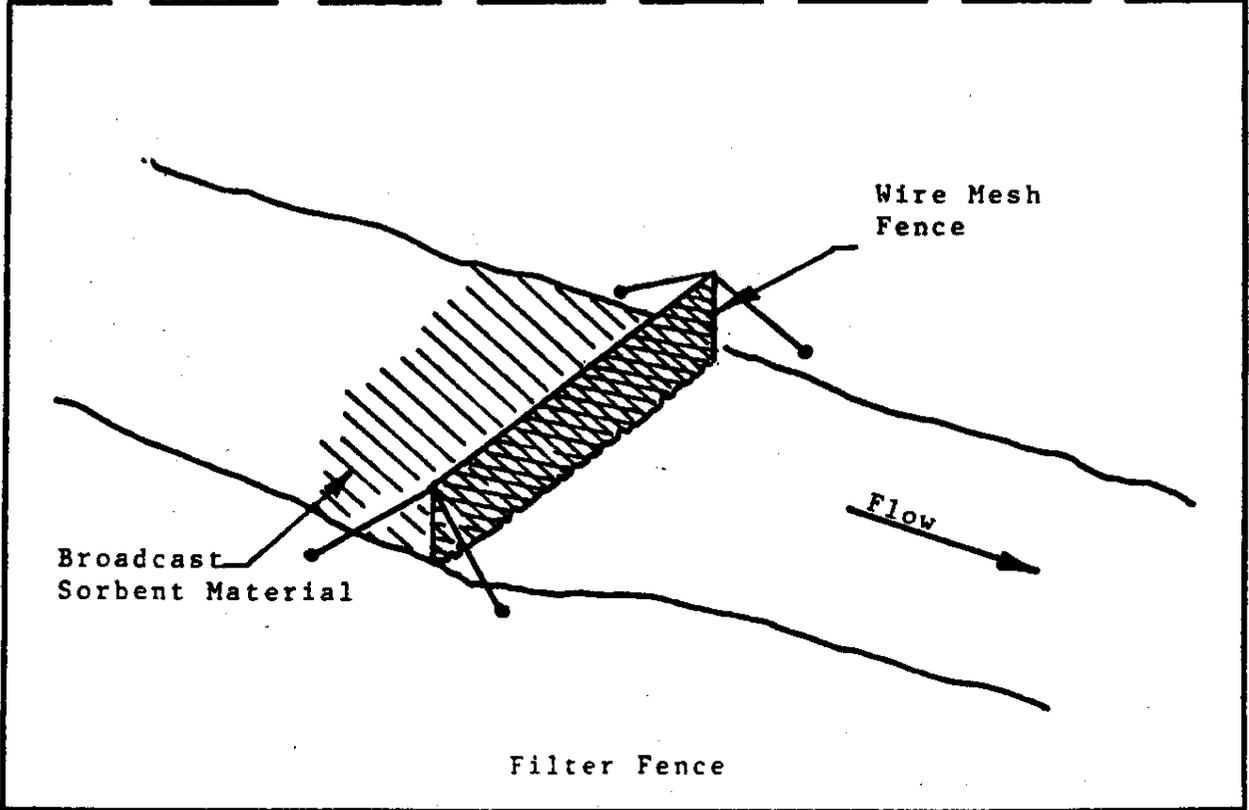
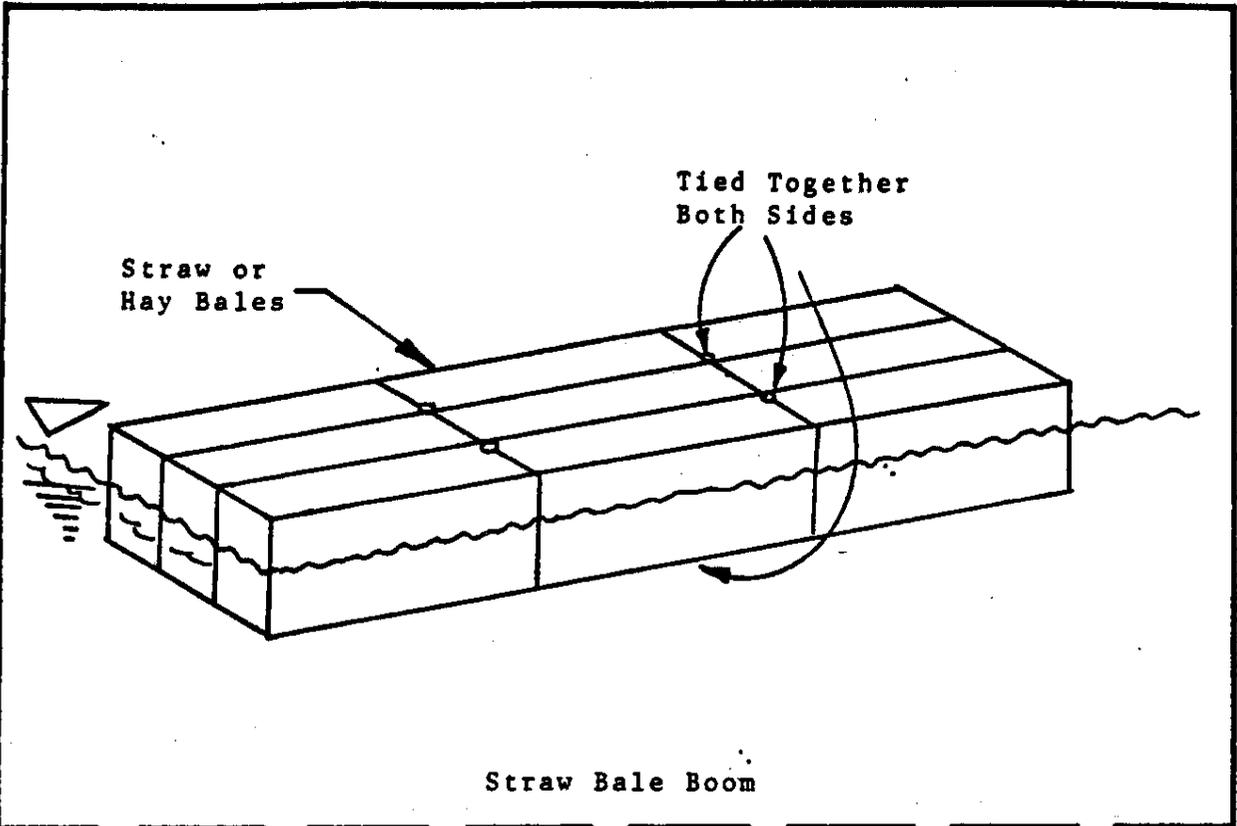
Boom Deployment in Lakes



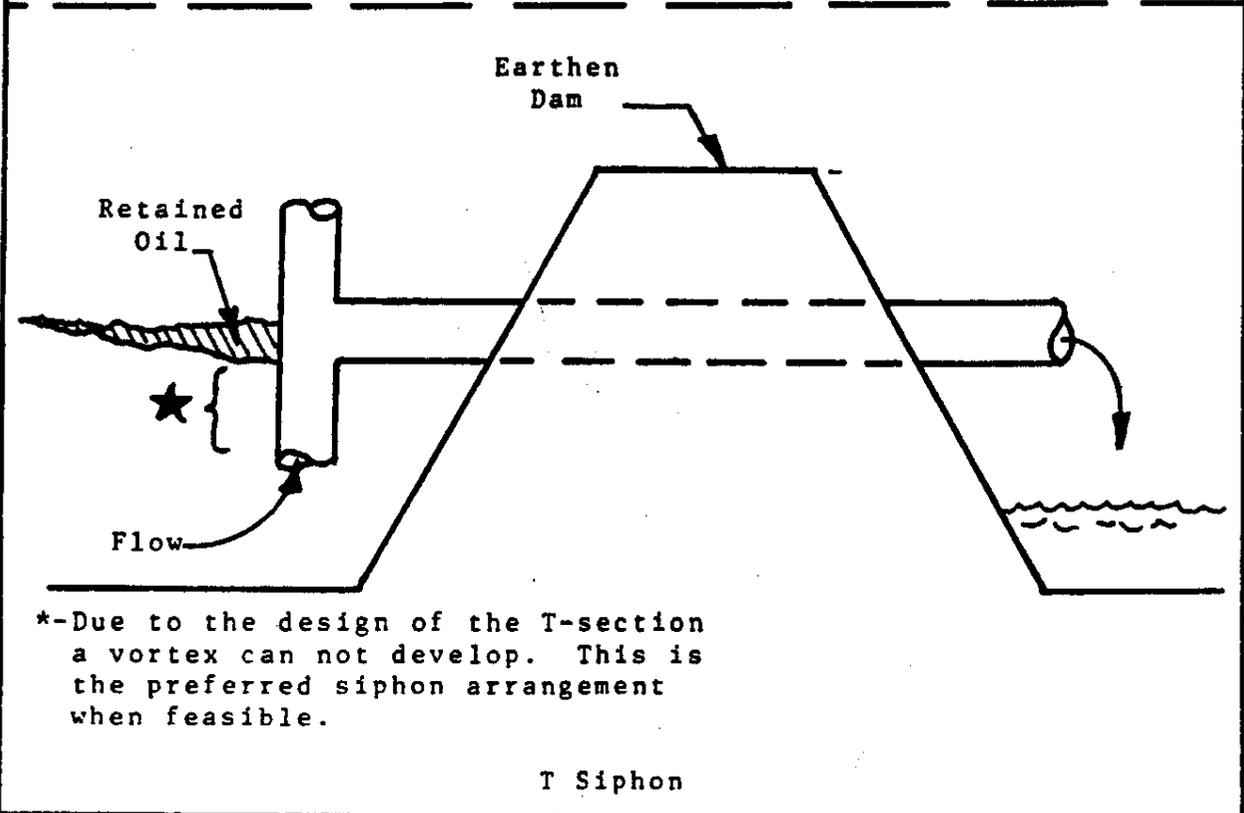
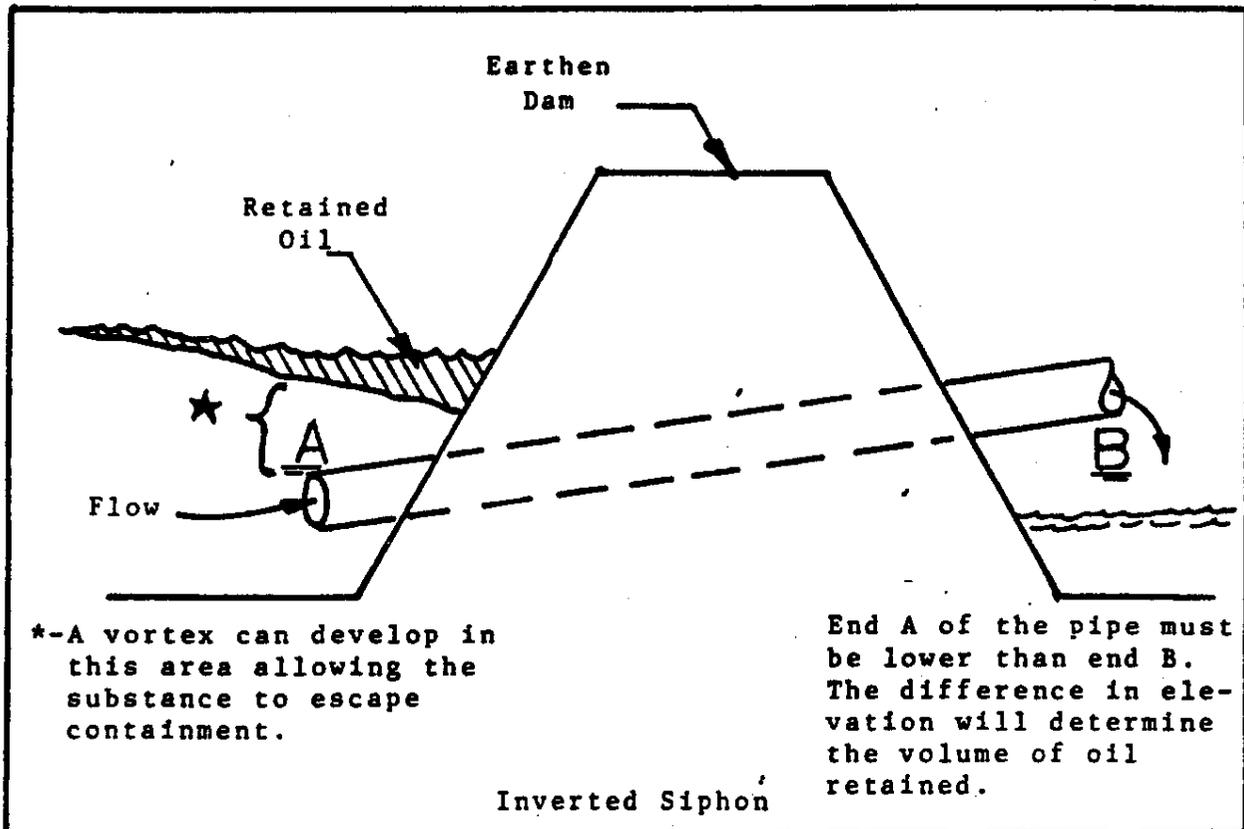
Boom Deployment in Flowing Streams



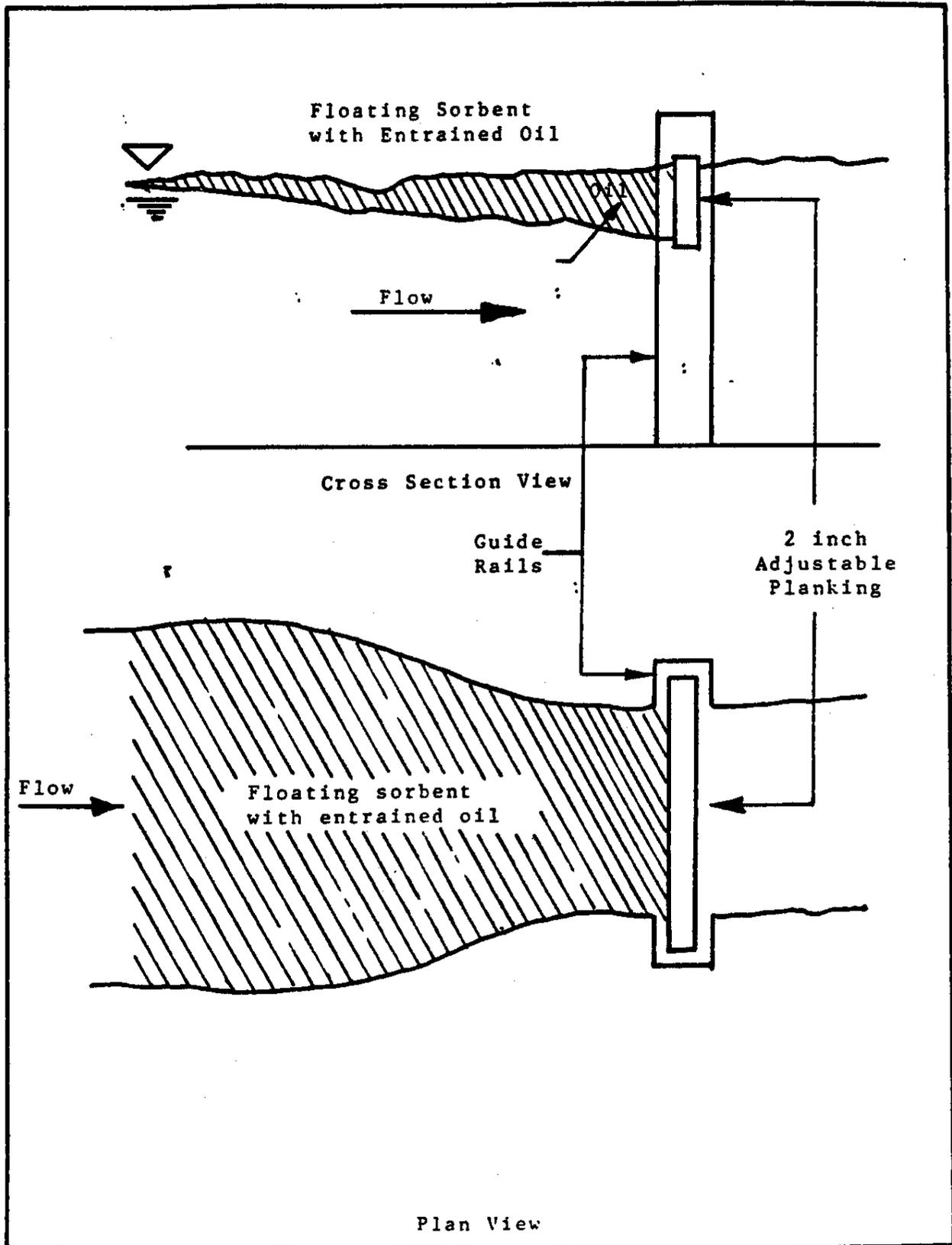
Alternate Method for Flowing Streams



Expedient Boom and Filter Fence



Siphon Dams



Surface Skimmer Device

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	Personnel in St. Louis District Having Assignments in Flood Emergency Organization	85	
	SLD Staff Personnel	82	
*	Organized Drainage and Levee Districts	60	
	Private Levee Systems	<u>38</u>	*
*	Total	433	*