Hilcorp Energy Company

Facility Response Plan

Volume I

2010

Hilcorp Energy Company
1201 Louisiana
Suite 1400
Houston, TX 77002

Facility Response Plan
Volume I_TOC

Hilcorp Energy Company
Regulatory Compliance

Revised 09-28-2010

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In This Section

Distribution of Plans

VOLUME I Distribution	
NOTE: The Distribution of this Plan is controlled by the Copy Number located on the front cover.	
COPY NUMBER	**PLAN HOLDER**
1	Troy S. Brown Pipeline Manager Harvest Pipeline 1201 Louisiana, Suite 1400 Houston, TX 77002
2	Southwest Pass Terminal Plaquemines Parish, LA
3	Mike Schoch Director - Envir / Health / Safety / Emergency Response Harvest Pipeline 1201 Louisiana, Suite 1400 Houston, TX 77002
4	Melanie Barber – Response Plans Officer U.S. DOT Office of Pipeline Safety 1200 New Jersey Avenue SE – E- 22 - 321 Washington, D.C. 20590
5 (to be submitted)	Louisiana Oil Spill Coordinator's Office Office of the Governor Mr. Roland Guidry 150 Third Street, Suite 405, Baton Rouge, LA 70801

FRP Review/Revision Log

NOTE: It is the responsibility of the holder of this plan to insure that all changes and updates are made. The holder shall: remove and discard obsolete pages; replace obsolete pages with the updated pages.

Change Date	Affected Page Number(s)	Description of Change(s)
9/27/2010	All	Manual revised from previous FRP.

About This Manual

In This Section

Coverage, Purpose and Objectives

COVERAGE: This program is intended to cover Hilcorp Energy Company, Harvest Pipeline Company, and the assets owned and/or operated by either such company and/or their respective affiliates. Each reference to Hilcorp shall mean Hilcorp Energy Company or Harvest Pipeline Company, as applicable.

The PURPOSE of the *Hilcorp Facility Response Plan* is to:

- serve as a reference and guide to Hilcorp personnel during an emergency or spill incident, and
- comply with Federal, State, and local laws, ordinances, and regulations.

The OBJECTIVES of the *Hilcorp Facility Response Plan* are to:

- outline Hilcorp emergency response organization
- list Hilcorp incident notification protocols
- describe emergency response procedures, spill planning, and spill prevention methods
- list the available personnel and resources
- describe the training, testing, and inspection procedures and protocols
- identify the worst case discharge volumes and locations
- describe the worst case discharge response, and
- describe Hilcorp's protection of environmentally sensitive and socioeconomic areas.

Versions of Manual

The *Hilcorp Facility Response Plan* is available in both hard copy and an electronic copy. The electronic copy is in Microsoft® Word. The information contained in both the hard copy and electronic version are identical.

Accessing the Electronic Version

The electronic version of the *Hilcorp Facility Response Plan* may be accessed through the Hilcorp Intranet at http://webaps.hilcorp.com/defailt.aspx.

Organization of Manual

The *Hilcorp Facility Response Plan* is divided into the following two parts:

Volume I—Volume I contains general guidelines which apply to all response zones.

Volume II—Volume II contains site specific guidelines which are specific to each response zone and asset.

Definitions

The Hilcorp Compliance Glossary under separate cover provides a definition of most key words in this plan.

Acronyms

All acronyms used in this plan are listed in the following table.

Citations

Regulatory or industry code citations may be listed after a heading. If shown under a heading, the citation pertains to all information under that heading.

If the citation is shown under a sub-heading in the text, the citation only pertains to the information directly under that sub-heading.

Acronyms

In This Section

Acronyms

AC	Area Committee
ACMT	Area Crisis Management Team
ACP	Area Contingency Plan
ACT	Automatic Custody Transfer
AMPD	Average Most Probable Discharge
ANPRM	Advance Notice of Proposed Rule Making
API	American Petroleum Institute
APM	Air Patrol Marker
APNS	Automatic Pager Notification System
AQI	Alternate Qualified Individual
BBL	Barrels
BPD	Barrels Per Day
BPH	Barrels Per Hour
BOEMRE	Bureau of Ocean Energy Management, Regulation, and Enforcement
CAER	Community Awareness and Emergency Response
CAR	Compliance Assessment Review
CBT	Computer Based Training
CC	Control Center
CCA	Clean Channel Association
CCS	Control Center Supervisor
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act

CFR	Code of Federal Regulations
CHEMTREC	Chemical Transportation Emergency Center
CIMA	Channel Industries Mutual Aid
CMAT	Crisis Management Assistance Team
CLT	Crisis Leadership Team
COTP	Captain of the Port
CP	Command Post
CPI	Corrugated Plate Interceptor
CRZ	Contamination Reduction Zone
CWA	Clean Water Act (Federal)
CY	Cubic Yards
DCO	Discharge Cleanup Organization
DECON	Decontamination
DEQ	Department of Environmental Quality
DNR	Department of Natural Resources
DOC	Department of Commerce
DOD	Department of Defense
DOE	Department of Energy
DOI	Department of Interior
DOJ	Department of Justice
DOL	Department of Labor
DOS	Department of State
DOT	Department of Transportation

DPMC	Deer Park Manufacturing Complex
DPS	Department of Public Safety
DRAT	District Response Advisory Team
DRG	District Response Group
E&T	Environmental and Technical
EBS	Emergency Broadcast System
EHS	Extremely Hazardous Substance
EH&S	Environmental, Health & Safety
EIS	Environmental Impact Statement
EMA	Emergency Management Agency
EMP&R	Emergency Management Preparedness & Response
EMS	Emergency Medical Service
EOC	Emergency Operations Center
EPA	Environmental Protection Agency
EPC	Exxon Pipeline Company
EPM	Emergency Procedures Manual
EPCRA	Emergency Planning and Right-to-Know Act of 1986 (Title III of SARA)
EQ	Environmental Quality
ER	Emergency Response
ERCC	Emergency Response Command Center
ERT	Emergency Response Trailer
ERT	Environmental Response Team
ESA	Environmental Services Agreement

ETA	Estimated Time of Arrival
FAA	Federal Aviation Administration
FACT	First Assessment Crisis Team
FAX	Facsimile Machine
FCC	Federal Communications Commission
FEMA	Federal Emergency Management Agency
F.M.	Farm to Market
FOSC	Federal On-Scene Coordinator
FR	Federal Register
FRDA	Freshwater Resource Damage Assessment
FRF	Federal Revolving Fund
FRP	Facility Response Plan
FWPCA	Federal Water Pollution Control Act
GATX	General American Transportation
GIS	Geographic Information System
GLO	General Land Office (Texas)
GSA	General Services Administration
H_2S	Hydrogen Sulfide
HAZCOM	Hazardous Communication
HAZMAT	Hazardous Materials
HAZWOPER	Hazardous Waste Operation
HEC	Hilcorp Energy Company
HHS	Department of Health and Human Services

HIT	Hazardous Identification Table
HO	Head Office
HS	Hazardous Substance
HS&E	Health, Safety, and Environment
HS&T	Health, Safety, and Training
HVL	Highly Volatile Liquids
IBRRC	International Bird Rescue Research Center
IC	Incident Commander
ICS	Incident Command System
IDLH	Immediate Dangerous to Life or Health
INA	Insurance Company of North America
ITC	Intercontinental Terminal Corporation
LACT	Lease Automated Custody Transfer
LCRA	Lower Colorado River Authority
LDEQ	Louisiana Department of Environmental Quality
LDWF	Louisiana Department of Wildlife and Fisheries
LEL	Lower Explosion Limit
LEPC	Local Emergency Planning Committee
LFL	Lower Flammable Limit
LOSC	Local On-Scene Coordinator
LRT	Location Response Team
MBL	Mobile
MD	Medium Discharge

MER	Marine Emergency Response
MESA	Master Environmental Service Agreement
MNPD	Maximum Most Probable Discharge
MMS	Minerals Management Service
MMT	Marine Management Team
MOU	Memorandum of Understanding
M.P.	Mile Pole
MPA	Marine Preservation Association
NA	Not applicable
NCP	National Contingency Plan
NIOSH	National Institute for Occupational Safety and Health
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration (Department of Commerce)
NPFC	National Pollution Funds Center
NPS	National Park Service
NRC	National Response Center
NRDA	Natural Resource Damage Assessment
NRS	National Response System
NRT	National Response Team
NSF	National Strike Force
NSFCC	National Strike Force Coordination Center
OCS	Outer Continental Shelf
OES	Office of Emergency Services (California)

OPA	Oil Pollution Act
OPS	Office of Pipeline Safety
OSC	On-Scene Coordinator
OSCP	Oil Spill Contingency Plan
OSHA	Occupational Safety and Health Administration (USDL)
OSROT	Oil Spill Response Operating Team
OSLTF	Oil Spill Liability Trust Fund
OSPR	Office of Oil Spill Prevention Response
OSRO	Oil Spill Response Organization
OWCN	Oiled Wildlife Care Network
PEL	Permissible Exposure Limit
PFD	Personal Flotation Device
PGR	Pager
PHMSA	Pipeline and Hazardous Materials Safety Administration
PIAT	Public Information Assist Team
PIG	Procedures, Instructions, and Guidelines
POLREP	Pollution Report
PPE	Personal Protective Equipment
PPM	Parts Per Million
PREP	National Preparedness for Response Exercise Program
PROFS	IBM Professional Office System (E-Mail)
Psi	Pounds per square inch

QI	Qualified Individual
RCP	Regional Contingency Plan (Federal Oil and Hazardous Substances Pollution Contingency Plan)
RCRA	Resource and Conservation Recovery Act
RECON	Reconnaissance
REP	Radiological Emergency Preparedness
RERT	Radiological Emergency Response Team
ROC	Rate of Change
ROSSS	Radiometric Oil Spill Surveillance System
RPV	Response Planning Volume
RQ	Reportable Quantity
RRT	Regional Response Team
RT	Regional Team
RTU	Remote Terminal Unit
SARA	Superfund Amendments and Reauthorization Act
SCADA	System Control and Data Acquisition
SCAT	Shoreline Cleanup Advisory Team
SCBA	Self Contained Breathing Apparatus
SD	Small Discharge
SERC	State Emergency Response Commission
SMT	Spill Management Team
SONS	Spill of National Significance
SOP	Standard Operating Procedure
SPCC	Spill Prevention Control and Countermeasures

SSC	Scientific Support Coordinator (NOAA)
STEL	Short Term Exposure Limits
SUPSALV	U.S. Navy Supervisor of Salvage
TNRCC	Texas Natural Resource Conservation Commission
TPWD	Texas Parks and Wildlife Department
TRIM	Training Records Information Management
TRRC	Texas Railroad Commission
TSDF	Treatment Storage or Disposal Facilities
TWC	Texas Water Commission
UCS	Unified Command System
USACOE	U.S. Army Corps of Engineers
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
USDL	U.S. Department of Labor
USDOD	U.S. Department of Defense
USDOE	U.S. Department of Energy
USFWS	U.S. Fish and Wildlife Services
USGS	U.S. Geological Survey
VFD	Volunteer Fire Department
VSAT	Very Small Aperture Terminal
WBGT	Wet Bulb Globe Thermometer
WCD	Worst Case Discharge

Authorities & Certifications

In This Section

Authorities

General

Hilcorp gives emergency response personnel the authority to take corrective action at the scene of a release or incident. This automatic authorization enables on-scene responders to control the emergency as quickly and efficiently as possible.

Initial Response

During the initial response of an incident, Hilcorp authorizes response personnel to execute the roles and responsibilities established by the Incident Command System (ICS).

The key authorizations include handling:

- communication with external groups or agencies, and
- expenditures necessary to control the release.

Key Communication Authority

The Incident Commander (IC) is authorized to handle communications regarding the incident including providing information to the:

- Federal On-Scene Coordinator
- State On-Scene Coordinator, and
- media via Public Affairs Officer on scene.

The ICS's Liaison Officer is responsible for handling communication with non-response authorized, as required:

- Federal agencies
- State agencies, and
- local government agencies.

Monetary Authority

Monetary authority is delegated based on the type of incident. The following table describes monetary authority during an initial response.

Incident Type	Description
Classified	The IC has discretionary monetary authority. The IC may extend the monetary authority to other members of the ICS.
Unclassified	Monetary authority for Hilcorp personnel remains in accordance with the normal operating expenditures authority.

Once the initial release period has passed and the incident has been brought under control, proper management approval must be obtained for non-emergency issues such as:

- extended cleanup
- remediation, and
- settlements.

Certification of Response Preparedness

CERTIFICATE OF RESPONSE PREPAREDNESS

Hilcorp Energy Corporation hereby certifies to the Pipeline Hazardous Materials Safety Administration (PHMSA) that it has identified, and ensured by contract, or other means approved by PHMSA, the availability of private personnel and equipment to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such discharge.

Hilcorp Energy Corporation

9/28/10
Date

[signature] DIRECTOR E&S
Name and Title:

Section 1. Information Summary

In This Section

1. Operator Address
2. Response Zones

Gulf of Mexico Region - Louisiana Response Zone

1. Operator Address

CFR §194.107(c)(1)(i); 194.113(a)

Hilcorp Energy Company
1201 Louisiana
Suite 1400
Houston, TX 77002
713-209-2400 (24-hour number)

2. Response Zones

CFR §194.113(a)(2)

Gulf of Mexico Region - Louisiana Response Zone

The table below lists the state and parishes that are addressed with Hilcorp assets in the Gulf of Mexico Region - Louisiana Response Zone.

Louisiana

Gulf of Mexico Region - Louisiana Response Zone - Louisiana
• Plaquemines

Section 2. Emergency Response Organizations

In This Section

1. Spill Response Process

A. Introduction

The purpose in defining Hilcorp's spill response process is to convey to employees an understanding of the progression of activities and interactions associated with a spill response effort. The following further explains the spill response process for Hilcorp.

B. Who's Responsible

Hilcorp's spill response process is implemented and managed by personnel who staff an Incident Command System and is mainly composed of Hilcorp EH&S personnel.

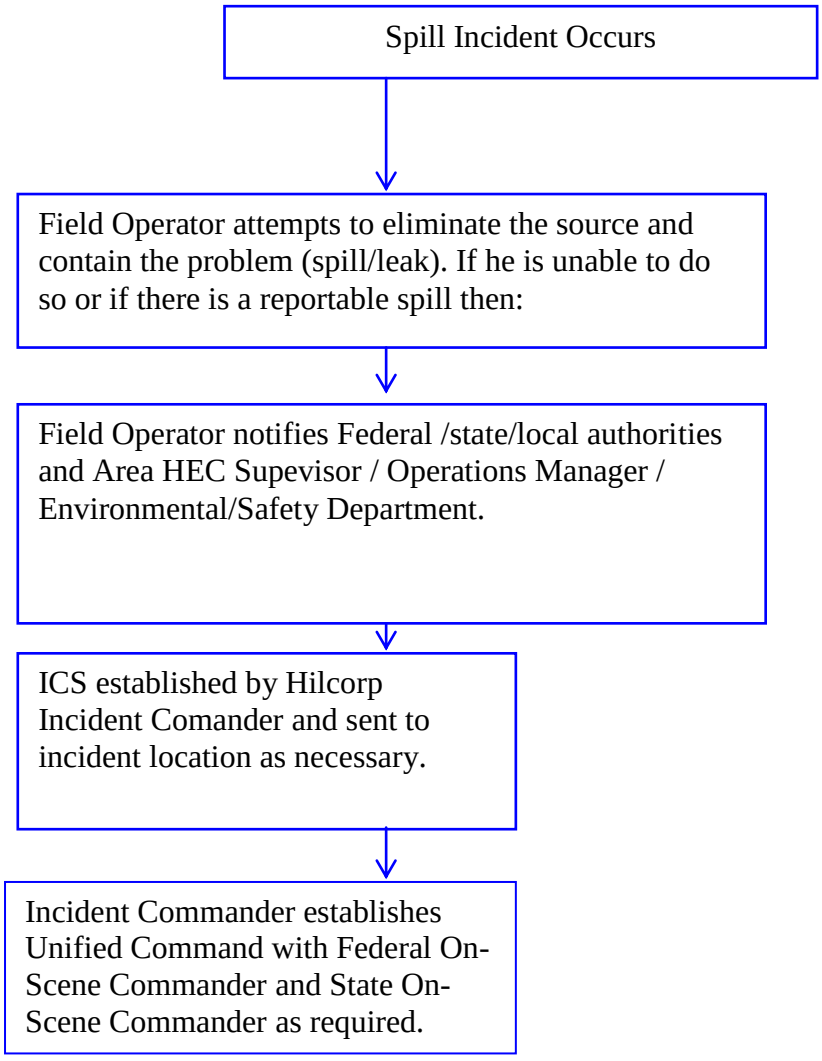
C. When Activated

The spill response process is activated when there is:

- An actual unplanned release of product from a tank or a pipeline.
- Hilcorp considers that all pipeline facilities are located in an area that would require an immediate response to prevent hazards to the public if the facility failed or malfunctioned.

D. Process

The Hilcorp spill response process that triggers an ICS response is as follows:



2. Incident Command System

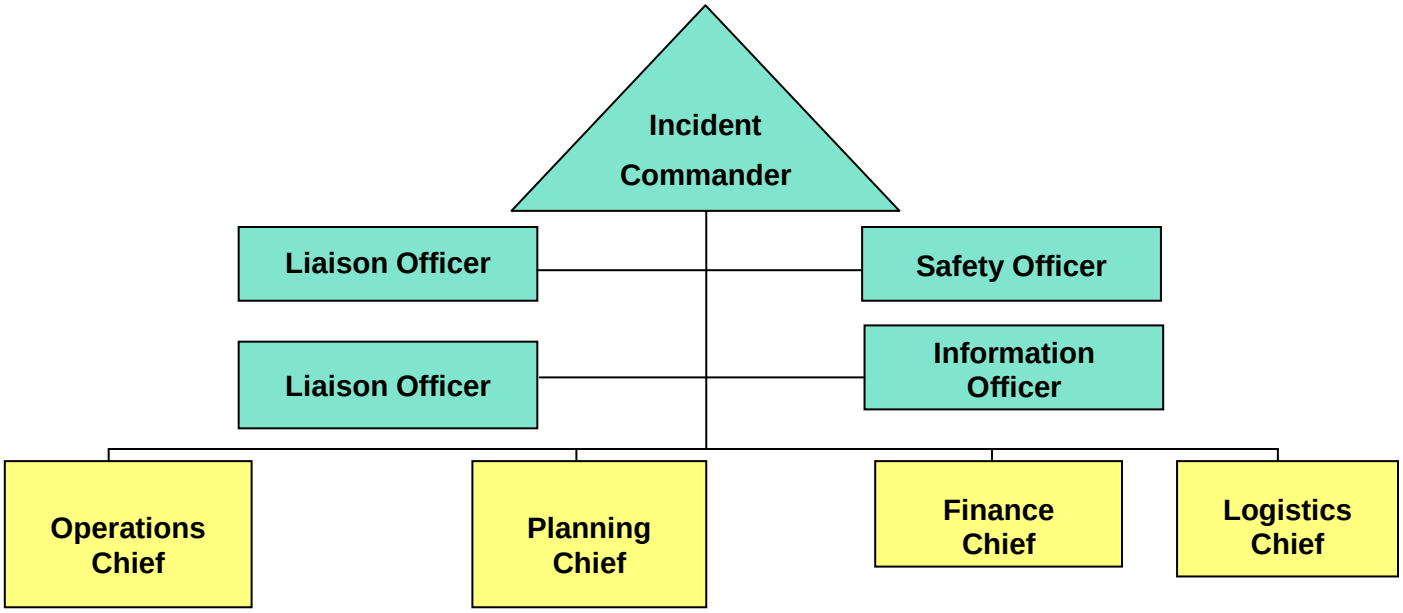
CFR §194.107(c)(1)(v)

A. Introduction

The Incident Command System (ICS) is the spill response organization used by Hilcorp to manage on-scene resources, strategies, and tactics. The following provides a general overview of the Incident Command System used by Hilcorp.

B. ICS Process

The purpose of the ICS Process is to add order and structure to an incident/spill so that it can be managed in an orderly or proactive manner. The following is the process overview:



C. When to Use

The ICS shall be used by Hilcorp when there is:

- An unplanned release
- An actual or potential threat to public, environment, facilities or personnel

The ICS may be used to manage any incident; it is independent of incident size or complexity.

D. Who Activates

The Pipeline/Field Operator who is the person on-scene is considered to be the Initial Responder (IR). Upon contacting the HS&E department an Incident Commander (IC) will be designated. He is responsible for activating the ICS as required.

E. IC Transition

The designation of an IC will be determined based on the scope or complexity of the incident and whether it can be handled locally or not.

F. Hilcorp ICS Structure

The following chart represents Hilcorp's ICS structure.

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Volume I_Section 2_Emergency Response Organizations

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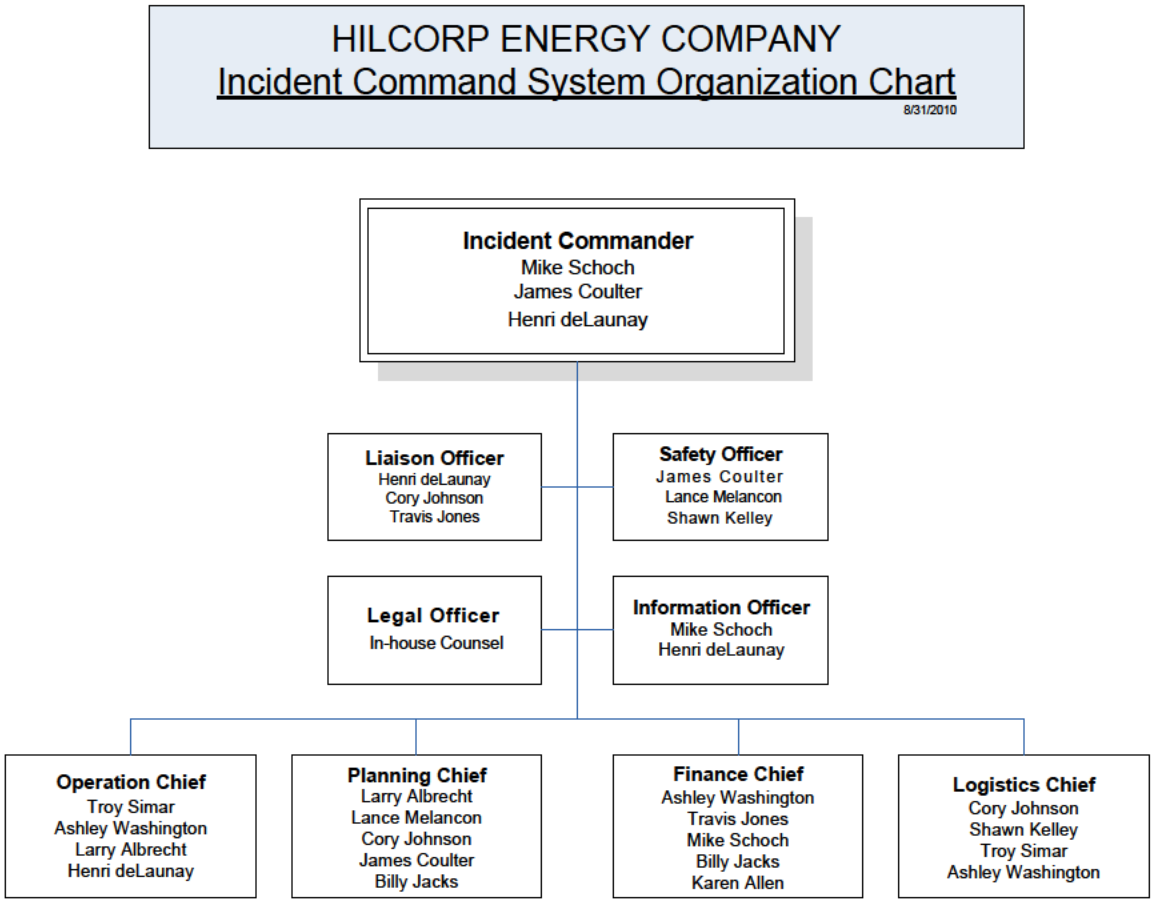


G. Development

Top-Down Development

ICS is developed from the top down, is headed by the Incident Commander (IC) and forms the Hilcorp Spill Management Team (HSMT). There are eight functional positions which report to the IC. Until the IC assigns individuals to each of these positions, the IC has functional responsibility for all unassigned positions. Each person in the ICS:

- Has direct responsibility for all unassigned positions reporting to him/her
- Makes the decision as to how and when to delegate their responsibility for handling the incident

Span of Control

The span of control is determined by the number of people reporting to one person. ICS disciplines each member to:

- Target the span of control to eight key individuals
- Train and prepare for exceptions
- Assign an area of functional responsibility to another person when the span of control reaches eight individuals

Modular Development

Modular development enables on-scene ICS members to make decisions about expanding the ICS based on the specific requirements of the incident. Staffing of the structure can consist of one to several individuals depending upon the magnitude of the incident and the resources required to manage it.

Common Terminology

ICS is a widely accepted and used emergency response process. During an emergency, response personnel may include company personnel from other locations, contractors, and governmental agencies. Hilcorp requires the use of ICS terminology to help maintain consistency of communication.

Disband ICS

An ICS team is disbanded by the IC once the incident is resolved.

Unified Command

A unified command will be established during an incident anytime agency representatives are present. When governmental agencies have jurisdiction in managing an incident, a unified command may be established as follows:

- The Hilcorp Incident Commander
- One designated individual from each jurisdictional response agency

Integrated Command

An integrated command occurs when personnel from the responsible party and participating agencies staff one or more ICS sections below the Incident Commander. This is not a subset of unified command or decision by consensus, but rather one chief per section with assigned roles within that section.

H. Roles and Responsibilities

CCR §817.02(d)(5)(c)(1); 817.02(e)(2)(b)(1)

Qualified Individual

The Qualified Individual and Alternative Qualified Individual (AQI) are responsible for:

- Activating and contracting with required Oil Spill Removal Organizations
- Activating personnel and equipment maintained by the operator
- Acting as a liaison with the On-Scene Coordinator
- Obligating any funds required to carry out all required and directed oil spill response activities
- The qualified individual or alternate must be available on a 24-hour basis and be able to arrive at the facility in a reasonable time

Incident Commander

The Incident Commander is the on-scene manager for the incident and is responsible for:

- Implementing overall management of the incident to protect personnel, the public, and the environment
- Ensuring that effective and appropriate communications are conducted throughout the incident
- Defining the class of threat
- Establish an Incident Command Post
- Assigning and briefing individuals to manage the key functional areas
- Activating and contracting with required Oil Spill Removal Organizations

- Ensuring that OSRO responders are qualified to perform the tasks assigned
- Document response decisions and activities using appropriate forms and in conjunction with other team members including Field Operators.
- Coordinate with key stakeholders and officials through the Liaison Officer
- Obligating any funds required to carry out all required and directed oil spill response activities
- Following up to ensure public and regulatory notifications have been made
- Determining when the situation no longer poses a threat

Deputy Incident Commander

The Deputy Incident Commander is responsible for:

- Assisting the IC in the development and implementation of the long-term objectives and the daily short-term objectives
- Assuming the responsibility of the Incident Commander in his/her absence
- Overseeing the implementation of the Incident Action Plans and the General Plan
- Coordinating the activities of response personnel
- Serving as facilitator between Operations Section, Source Section, Planning Section, Logistics Section, Finance Section, Command Section, and Unified Command concerning difficulties with implementation of the Incident Action Plans and the General Plan
- Maintaining appropriate communications with the public

Liaison Officer

The Liaison Officer is responsible for:

- Assisting and cooperating with outside non-response regulatory agencies such as Red Cross, water departments, environmental agencies, etc., to disseminate or receive needed information
- Serving as the point of contact when multi-jurisdictional , or several agencies are involved

Safety Officer

The Safety Officer is responsible for:

- Monitoring and assessing hazardous and unsafe conditions
- Developing and implementing measures that assure personnel safety

- Coordinating the preparation and ensuring implementation of the Site Safety and Health Plan (SSHP) in accordance with the Area Contingency Plan (ACP) and state and Federal OSHA regulations, and
- Making recommendations for personal protective equipment

Legal Officer

The Legal Officer is responsible for:

- Coordinating insurance claims with finance
- Providing in-house counsel on legal issues

Information Officer

The Information Officer is responsible for:

- Establishing a single information center where all external summaries and statements about the incident are prepared
- Developing and releasing information to the news media, to incident personnel and other appropriate agencies
- Maintain Unit/Activity Log (ICS 214)

Operation Chief

The Operation Chief is responsible for managing all operations directly applicable to the primary mission. He is responsible for implementing the hands-on strategies to remedy the emergency situation such as:

- Initial response actions
- Advise OSRO personnel of the following:
    1. Type of product spilled; health/safety hazards associated with product
    2. Location of the MSDS(s) and details of the Site Safety Plan
    3. Location of the first aid station
    4. Personal protection equipment required
    5. Potential environmental and physical hazards
    6. Job tasks and objectives
- Daily plan
- Resource utilization
- Division of work
- Implementing temporary and or permanent repairs, as appropriate, to the source to restore normal operations

- Identifying source of spill and implementing necessary actions to stop the source if not already done
- Implementing contingency plan(s) in accordance with the Incident Action Plan, as approved by Unified Command

Planning Chief

The Planning Chief is responsible for:

- Collecting, evaluating, disseminating, and using information related to the development of the incident
- Maintaining the status of resources available to handle the incident
- Obtaining information needed to resolve the situation
- Preparing alternative response strategies to handle the situation

Finance Chief

The Finance Chief is responsible for:

- Ensuring that financial authorities are identified
- Establishing lines of credit at local banks
- Keeping records of time sheets for contract as well as company personnel
- Tracking costs and resources utilizing standard business practices
- Claims adjustments

Logistics Chief

The Logistics Chief is responsible for providing the following resources, as requested, to ensure proper handling of the incident:

- Personnel (if additional are required)
- Equipment
- Facilities
- Services
- Materials

I. Development Examples

The examples below demonstrate how the ICS development process might work in various situations.

Example 1

A Field Operator comes across a small (1/2 gallon) outdoor spill from a solvent drum. The Field Operator assumes the role of Incident Commander (IC) and decides that the situation can be handled without additional assistance. The Field Operator also assumes the roles of the functions that report directly to the IC (Safety Officer, Source Chief, Operations Chief, Planning Chief, Information Officer, Liaison Officer, Logistics Chief, and Finance Chief). The Field Operator takes action to resolve the problem and then notifies the Area Supervisor.

Example 2

The Field Operator determines there is cause to shutdown the tanks due to a suspected problem and potential release. After further investigation he observes a catastrophic release from the tanks. He then assumes the role of assumes the role of First Responder / *Incident Commander*, telephones for assistance, and starts the process of notifications and spill containment. The IC is now assigned to Houston and the Incident Command System is initiated as required.

At this point, the Field Operator is no longer acting as IC and the unassigned ICS positions (Information Officer, Liaison Officer, Source Chief, Logistics Chief, Planning Chief, and Finance Chief) are the IC's responsibility in Houston.

The IC arrives on-scene within the required timeframe and confers with the Field Operator. They determine that the incident will require substantially more resources even though the assigned group is beginning to resolve the problem. The IC assigns the roles of Logistics Chief, Finance Chief, and Information Officer based on available resources. Due to the nature of the incident, the IC assembles a relief team of individuals to staff the ICS for a second shift so the first team can rest and return the next day. These two teams of responders work for three days to resolve the problem and clean up the affected area.

3. Location Response

A. Introduction

The Hilcorp Pipeline/Field Operator will address an unclassified impact with his limited resources. If he feels that the resolution of the impact is beyond his capabilities he will then initiate the ICP by contacting the appropriate individuals.

Class	Impact

Unclassified	Unlikely harm to the public or environment (and can be addressed by the Field Operator)
Class I	Likelihood potential harm to the public and environment
Class II	Moderate potential harm to public and environment
Class III	Significant potential harm to public and environment

B. Response Zones

The Hilcorp response zones are:

- Gulf of Mexico Region—Louisiana Response Zone

C. When Activated

If the ICS Incident Commander (IC) determines that resources beyond the capacity of local personnel are required to resolve an incident, the SMT is activated to fill the key ICS positions to form the Hilcorp Spill Management Team.

4. Hilcorp – Spill Management Team

A. Introduction

The following describes the organizational features of the Hilcorp Spill Management Team (HSMT). The Hilcorp Spill Management Team is staffed by specially trained personnel from Hilcorp and by outside contractors. The Hilcorp Spill Management Team will respond to incidents exceeding Pipeline/ Field Operator capability, addressing those incidents classified as Tier I, II or III.

The Pipeline/Field Operator will provide first response to an incident at a facility. The HSMT will respond, to the degree necessary, to incidents exceeding local capability and when requested.

The HSMT uses the NIMS Incident Command System (ICS) to manage emergency response activities. Because ICS is a management tool that is readily adaptable to incidents of varying magnitude, it will be used for all emergency incidents. Staffing levels will be adjusted to meet specific response team needs, based on incident size, severity, and type of emergency.

B. Response Teams

The Unified Command Structure will be utilized as a method of integrating federal, state, and local agencies with the HSMT. The purpose of this system is to organize the variety of agencies that may be involved in a response into a consistent team that performs their duties in a concerted, unified effort.

The Unified Command Structure consists of three key On-Scene Coordinators: Federal On-Scene Coordinator (FOSC), State On-Scene Coordinator (SOSC), and the Harvest Pipeline Incident Commander. These three entities will share decision-making authority as Incident Commanders in the Command center and will consult with each other regarding spill response management issues. The SOSC will coordinate all state and local agencies involved in the response. Depending upon the size and complexity of the incident, additional federal and state agency personnel may integrate into the other functions of Hilcorp's response organization.

Section 3. Procedures

In This Section

1. Incident Response

CFR §194.107(c)(1)(v), §195.402(e)(1-7)

When responding to an incident, the main objectives are to preserve life and to safeguard the environment and property.

A. Making an Initial Response

The goal of the initial response is to reduce the adverse impacts of the incident.

Making an initial response includes the following.

- Shut the system down.
- Notify the appropriate Hilcorp personnel and governmental agencies.
- Evaluate system's potential for public hazards and identify immediate response areas utilizing
  - HCA data
  - Risk assessment data
  - Local knowledge
  - Feedback from public officials
- Utilize the Incident Command System.
- Ensure sufficient response resources are obtained.

Emphasize to all response personnel the potential dangers of each task and to put safety first. Verify that all workers are trained and equipped for the hazards to which they are exposed. Verify compliance with all applicable Office of Safety and Health (OSHA) Hazardous Waste Operations and Emergency Response Regulations (HAZWOPER) requirements.

B. Field Personnel Notification Procedures

When a Pipeline/Field Operator observes or is made aware of a reportable oil spill, he is to notify his Area HEC Supervisor, Operations Manager and HS&E immediately. For purposes of this plan the Pipeline/Field Operator is considered the Initial Responder (IR).

A reportable spill shall be deemed any liquid spill greater than or equal to one barrel (state) on land or causes a sheen on the water. Any spill less than one barrel should be reported to his Supervisor only.

The following steps should be taken immediately:

- Eliminate the source of the problem (spill/leak)
- Contain the problem.
- Notify appropriate Federal/State/Local Authorities.
- Notify appropriate HEC personnel that shall include:

  i. Area HEC Supervisor

ii. Operations Manager

iii. Environmental/Safety Department

Notification to the Environmental/Safety Department will be to a Qualified Individual (QI) or an alternate Qualified Individual (AQI). This individual at Hilcorp in all probability will be the Incident Commander (IC).

Refer to "Section 10. Notifications" and Appendix B_Forms in Volume II for specific notification information. The Spill / Gas Release Report form shall be filled-in starting immediately after observing the incident and during the reporting of the incident in order to save time.

C. Internal Notification Procedures

The IC will contact the Primary OSRO and assemble appropriate members of the HSMT as required. Additional Officers and Chiefs may be notified. Refer to Section 10 for a HSMT Phone List.

D. Spill Management Team Structure

The Hilcorp SMT (HSMT) has been created and organized to plan for and manage response operations. As requires, the HSMT will develop strategies and priorities for a response, supervise contractors, handle safety and security matters, and will provide logistical support for contractor personnel. The contracted USCG approved OSROs are responsible for and are aware that they will provide the necessary resources including people necessary to remove, to the maximum extent practicable, a WCD and to mitigate or prevent a substantial threat of a WCD.

E. Initial Responder Guidelines

CCR §817.02(f)(4)(d-e)

First Responder Awareness Level

The following guidelines should be observed by the first person(s) on scene at a release who would be classified as First Responder Awareness Level.

- Approach the release site safely and cautiously. Remain calm. (Your goal is release verification and personal and public safety.)
  - Observe wind direction in case of evacuation.
  - Approach from upwind direction.
  - Do not enter an area with heavy fumes or vapors.
  - Get only close enough to visually assess the area.
  - Attempt to locate the leading edge of the release. Without coming in contact with the product or vapor cloud, take steps to reduce the spread of the release if possible.

- If possible, eliminate source of release (keeping in mind that your goal is release verification and personal and public safety).
- Notify the Area HEC Supervisor, Operations Manger and HS&E.
- Secure the area for safety reasons.
- Use local authorities to protect life and property. Divert or stop all traffic in the immediate area if necessary and assess the need for evacuation.
- Keep ignition sources away. DO NOT start vehicles in the vicinity of the vapors.
- If the chemical is on fire, remain at a safe distance on site. DO NOT attempt to extinguish the fire.

F. General Medical and First Aid Procedures

CCR §817.02(f)(4)(B)

If personnel are injured, immediate steps will be taken to address the injuries, and medical treatment will be requested as soon as possible. Any emergency medical treatment administered prior to the arrival of medical personnel will be limited to addressing the immediate needs of the individual as necessary.

G. Controlling Ground, Marine, and Air Traffic

CCR §817.02(f)(4)(C)

The first responder or IC will evaluate the release site to determine whether or not ground and marine traffic will hamper the spill response. The FOSC may evaluate air traffic.

In the event that control is required before local state, or federal agencies arrive, the first responder or IC will follow the guidelines presented in the table below.

Traffic Control Needed	Response Requirements
Ground	Call 911 and describe the location and nature of the release. Request highway patrol, sheriff, police, or fire department assistance. If manpower permits: • cordon off the area with hazard cones and yellow hazard tape • consider temporary use of vehicles to barricade streets if vehicular traffic is in danger, and • keep pedestrians away from the site.
Marine	In the event that such a spill reaches marine waters: • notify the Coast Guard immediately • request the Captain of the Port to provide assistance for controlling marine vessels, and • to the extent possible, warn vessels and boats that traversing the release area may be dangerous and may jeopardize response operations. Leave patrolling and control activities to the direction of Coast Guard or the Captain of the Port.
Air	Contact the Federal Aviation Administration (FAA) if it appears that air traffic control will be required. (Upon approval, the FAA will immediately issue a Notice to Airmen ("NOTAM")). Be prepared to describe the geographical location, or if known, the latitude and longitude of the release.

H. Establishing Command Posts, Communication Posts, and Staging Areas

CCR §817.02(f)(2)(A-C)

Command Post

In the event of a major incident, a command post will be established to serve as the primary location for the Incident Command staff activities and the various meetings and briefings held throughout response operations.

Hilcorp will maintain a Central Command Post during a spill at 1201 Louisiana, Suite 1400, Texas 77002. In addition a mobile post may be set up in the vicinity of the spill at the facility, as needed.

As required, the Logistics Chief will be responsible for establishing the command post, taking care to ensure that the command post is located in an area sufficiently removed from the incident scene (i.e., in a "safe zone").

The following additional criteria will be used to determine the most appropriate location:

- proximity to the incident
- sufficient size to allow response personnel to operate effectively and comfortably
- room for conferences, Unified Command meetings, and media briefings
- secure phone and fax lines
- adequate security
- office support systems (such as fax machines, photocopiers, telephone lines, computers, file system, AM radios, VHF/UHF radio telephone, base communication station), and
- adequate sanitation facilities.
- Site surveillance, if safe and desirable

Communications Post

The communications post will most likely be located in or near the command post. Communications equipment that could be used in the event of an unplanned release is available at the terminal.

Field Command Post

A field command post may also be established at the scene of the spill. The primary function of the field command post is to conduct all activities which are directed toward reduction of the immediate hazard, including recovery and cleanup operations.

Staging Areas

In a major spill response, numerous staging areas may be required to support containment and cleanup operations.

Staging areas will need to be equipped with prime movers, cranes, and other machinery necessary to load/unload response equipment and supplies to trucks, vessels, etc.

Personnel at staging areas will need to establish inventory control systems to track equipment use.

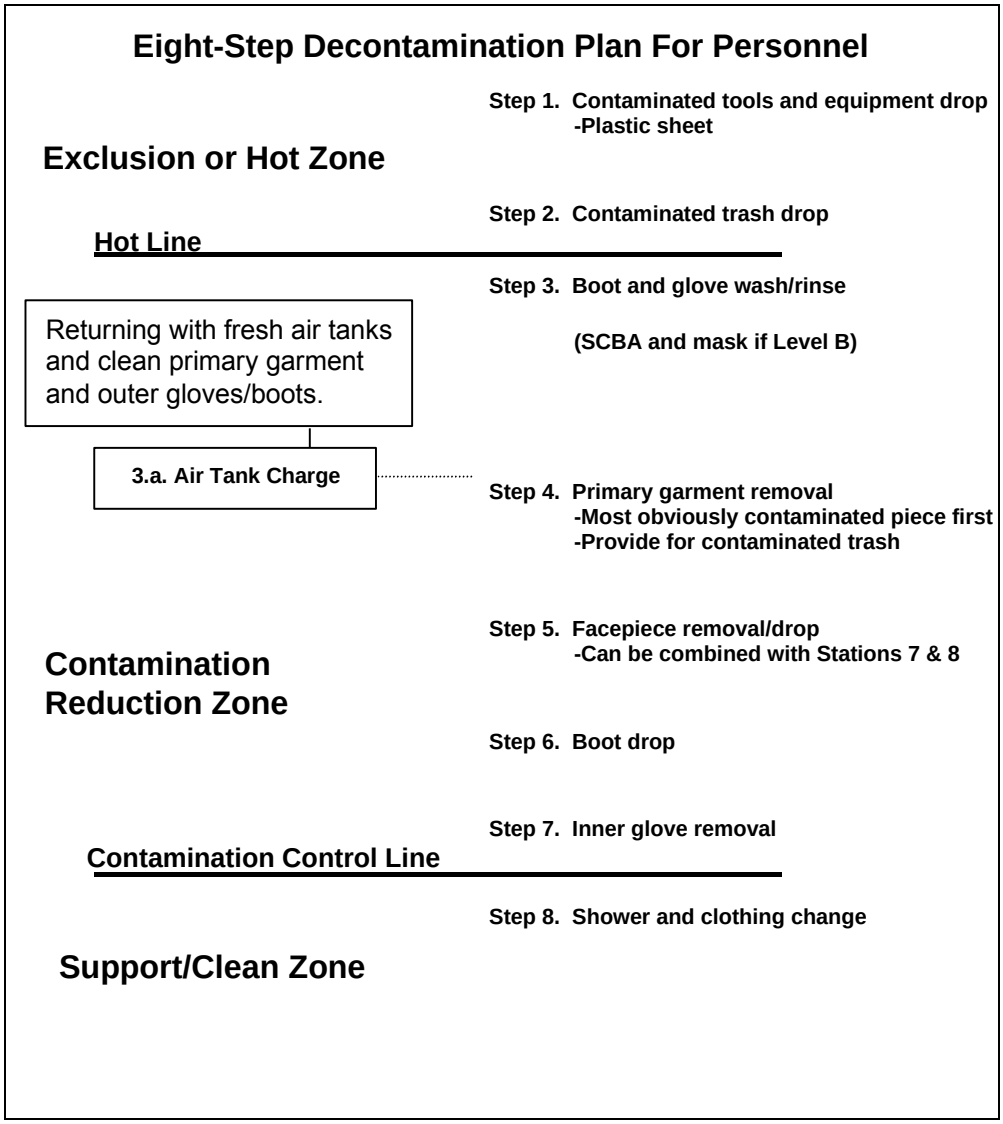
In selecting a suitable staging area, the following criteria should be considered:

- access ability to impacted areas
- proximity to secure parking, airports, docks, piers, or boat launches
- ability for area to be secured
- proximity to populated or environmentally sensitive areas, and
- adequate lighting.

2. Decontamination

CCR §817.02(f)(8)

The appropriate decontamination procedure will depend on the contaminant and its physical properties. For purposes of this Plan, crude oil is considered to be the contaminant. An MSDS is provided in Appendix C in Volume II. The decontamination stations and process should be confined to the Contamination Reduction Zone. Steps for personnel decontamination are outlined below.


Eight-Step Decontamination Plan For Personnel
Step 1. Contaminated tools and equipment drop
-Plastic sheet
Exclusion or Hot Zone
Step 2. Contaminated trash drop
Hot Line
Step 3. Boot and glove wash/rinse
(SCBA and mask if Level B)
Returning with fresh air tanks and clean primary garment and outer gloves/boots.
3.a. Air Tank Charge
Step 4. Primary garment removal
-Most obviously contaminated piece first
-Provide for contaminated trash
Step 5. Facepiece removal/drop
-Can be combined with Stations 7 & 8
Contamination Reduction Zone
Step 6. Boot drop
Step 7. Inner glove removal
Contamination Control Line
Step 8. Shower and clothing change
Support/Clean Zone

3. Guidelines For Responding to an Oil Spill

CFR §194.107(c)(1)(v); §195.402(e)(2-7)

A. Introduction

This section provides guidelines and approaches for dealing with an oil spill emergency.

B. Responding to Oil on Water

CCR §817.02(d)(6)(A-B)

For more specific information regarding containment, cleanup, storage, handling and disposal, refer to the appropriate sections of this manual.

Guidelines

If there is an oil release on water, consider these guidelines.

- See "Initial Responder Guidelines" heading above.
- Cease pumping and close valves to prevent any further release.
- Determine the release source and prevent any further flow from the pipeline/tanks. Contain the oil and prevent any further contact with water.
- Remember that flammable vapor concentrations can exist near spilled oil. (For example, as much as 50% of the original volume of gasoline can evaporate in 10 minutes at 60.5°F.) Use explosive meters and safety precautions to prevent fire, explosions, asphyxiation, or health risks to response personnel.
- Eliminate possible sources of ignition.
- Determine the actual speed of the oil on water. Remember that oil on water may not travel at the same velocity as the river or stream (due to wind, oil gravity). Use this knowledge for boom placement.
- Set booms considering river speeds and oil pickup points. Consider cascading booms (several layers) if necessary.
- Contact the Emergency Management Teams and other marine response cooperatives for emergency response assistance, if needed.
- Consider accessing the release sites by boat rather than land vehicles to protect shorelines and other sensitive areas.
- Close water intakes.

Tracking Oil

CCR §817.02(d)(6)(D)

A number of techniques will be used to track the movement of an oil slick, including:

- Direct observation from aircraft, vessels, or elevated areas,

- buoy tracking systems,
- Radiometric oil spill surveillance systems (ROSSS), and
- Spill trajectory predictions.

Buoy and ROSSS tracking systems could be accessed through cooperatives. Trajectories could be generated by the Scientific Support Coordinator (i.e., through Unified Command) or by EH&S personnel using the vector addition analysis method. The vector addition analysis method involves plotting the two primary factors that influence the movement to determine the estimated trajectory of the slick.

Cleanup, Storage, Handling, and Disposal

To clean up, store, handle, and dispose of the oil on water, consider these guidelines.

- Use skimmers to remove the oil from the water surface.
- Use sorbent pads and sorbent booms to remove the oil sheen from the water surface.
- Try to limit the amount of water picked up with the oil when recovering oil.
- Consider alternatives to vacuum trucks for on-scene storage of recovered oil.
- Only use dispersants with agency approval and if advised by the Head Office Environmental Group.

  Make sure that the removal and disposal of oil, water, and debris is consistent with regulatory requirements. Consult a Company EH&S representative.

C. Responding to Oil on Land

For more specific information regarding containment, cleanup, storage, handling and disposal, refer to the appropriate sections of this manual.

Guidelines

If a release of oil occurs on land, consider these guidelines.

- See “Initial Responder Guidelines” heading above.
- Cease pumping and close valves to prevent any further release of oil.
- Determine the release source and prevent further flow from the pipeline/tanks.
- Remember that flammable vapor concentrations can exist near spilled oil. (For example, as much as 50% of the original volume of gasoline can evaporate in 10 minutes at 60°F.) Use explosive meters and safety precautions to prevent fire, explosions, and asphyxiation or health risks to the response personnel.

- Eliminate possible sources of ignition. Do not start vehicles in the vicinity of volatile materials that have been released.
- To avoid vapor ignition, divert or stop traffic if the release impacts a roadway.
- Prevent oil from entering into drainage or sewer systems, water courses, irrigation channels, or culverts. Block drains, dam ditches, and boom water courses and irrigation channels.

Response Strategies

Oil either spreads out or penetrates downward when released on land. When the oil penetration is rapid and the depth of groundwater is shallow, the preferable strategy may be to let the oil spread. If the land surface is impermeable, the desirable strategy may be to allow or cause the oil to collect in pools. If oil collects in pools in a contained area, consider using water as a layer between the oil and the ground.

Cleanup, Storage, Handling, and Disposal

Consult with a Company EH&S representative for guidance on cleanup, storage, handling and disposal. If possible, treat soil on site.

4. Personnel Responsibilities

CCR §817.02(f)(5)(A-B)

A. Pipeline/Field Operator

After identifying an incident, the Pipeline/Field Operator should follow these steps.

Step	Action
1	Shutdown the pipeline and secure the facility to the extent possible. Note: For more detailed information concerning "abnormal operations," refer to the Operations and Maintenance Manual.
2	Notify the Area HEC Supervisor or his designated alternate.
3	Notify the Operations Manager or his designated alternate.
4	Notify the EH&S Department
5	Notify the National Response Center (NRC) / State / Local Authorities.

B. Area HEC Supervisor

After notification of an incident, the Area Supervisor should be in contact with:

- Operations Manager (or his designated alternate), and
- EH&S Department.

C. Area Personnel Responsibilities

After notification of an incident, area personnel (Pipeline/Field Operator) should:

The area personnel's general response plan consists of the following four stages which may overlap or occur concurrently:

- making an initial response
- defining the problem
- controlling the situation, and
- cleaning up and repairing the damage (if possible).

More specifically Area Personal should:

Step	Action
1	Dispatch one or more Hilcorp/contract employees to the release site and establish the Incident Command System (ICS).
2	Complete a Site Safety Plan. See "Section 11. Site Safety Plan" in Volume II
3	Secure the area for safety concerns: • human life • explosion (including rectifiers) • fire, and • health (vapors, water contamination, etc.). If additional site security help is needed, get assistance from Federal, State, and local officials.

4	Define the problem. • Locate the head (leading end) of the release. • Monitor the area to identify all existing hazards and extent of the exposed area. • Monitor the area to identify any environmental impact (wildlife, water supplies, etc.). • Determine the necessary personal protective equipment and precautions [oxygen, deficiencies, thermal exposure, high Lower Explosive Limit (LELs), and Permissible Exposure Limit (PELs)].
6	Control the situation. • Secure the manual valves. • Take measures to prevent accidents associated with product movement, vapor clouds, or fire. • In highly populated areas: • eliminate potential sources of ignition, and • use police, fire department, and utility groups to help with evacuation, security, and protection. In high traffic areas: • divert or stop all traffic in the immediate area, and • use police, fire department, and utility groups to help with traffic or crowd control.

D. Incident Commander

After notification of an incident, the Incident Commander should address the following:.

Step	Action
1	Determine the class of the incident.
2	Activate the Spill Management Team (SMT), if needed.
3	Coordinate additional regulatory calls (after the NRC call).
4	Determine if addition response team assistance is needed.
5	Advise Pipeline or Facility Owner if applicable, if the Owner is other than Hilcorp.
6	Dispatch one or more Hilcorp/contract employees to the release site and establish the Incident Command System (ICS).
7	Complete a Site Safety Plan. See "Section 11. Site Safety Plan" in Volume II
8	Assemble response equipment and personnel. Dispatch resources to the release site.
9	Activate contract employees and equipment as needed.
10	Determine if assistance is needed from an oil spill cooperative (if available) or LRT. Activate them if needed.
11	Collect the released material into containment sites as quickly as possible.
12	Locate additional containment sites, if needed.
13	Evaluate resources to confirm sufficient personnel and equipment.
14	Clean up to minimize damage to public health and the environment.
15	Repair the damage to the system.

5. Emergency Classification

CFR § 195.402(e)(1)

A. Introduction

The following describes the Emergency Classification System used by Hilcorp to judge the seriousness of incidents. The seriousness depends on:

- geographical impact, and/or
- potential harm to human health and the environment.

B. Classification

Hilcorp classifies incidents to help determine:

- the level at which the crisis should be managed, and
- involvement of the Head Office Crisis Management Team.

Incidents are classified as follows:

Class	Impact
Unclassified	Unlikely harm to the public or environment
Class I	Likelihood potential harm to the public and environment
Class II	Moderate potential harm to public and environment
Class III	Significant potential harm to public and environment

C. Unclassified Incident

An unclassified incident involves a release/event that is below required government notification limits.

The table below describes unclassified incidents.

Responsibility/Involvement	Impact
Head Office	None or little
Cleanup	Local resources
Government	Limited, if any
Media	None or little

D. Class I Incident

A Class I incident involves a release/event with state and local implications.

The table below describes Class I incidents.

Responsibility/Involvement	Impact
Response Teams	Response by Spill Management Team
Head Office and Area Office	Support provided as needed
Cleanup	Local and third-party resources
Government	Moderately high, primarily at state and local levels
Media	Moderately high, primarily at state and local levels

E. Class II Incident

A Class II incident involves a release/event with at least regional implications.

The table below describes Class II incidents.

Responsibility/Involvement	Impact
Response Teams	Response by Spill Management Team and possibly outside spill response support
Head Office	Support normally on the scene
Cleanup	Hilcorp resources, and third-party resources and head office management
Government	Moderately high, primarily at a regional level
Media	Moderately high, primarily at a regional level

F. Class III Incident

A Class III incident involves a release/event with national or global implications.

The table below describes Class III incidents.

Responsibility/Involvement	Impact
Head Office	Significant resources committed.
Cleanup	Maximum Hilcorp and third-party resources
Government	Intense
Media	Intense

6. Environmentally Sensitive and Socioeconomic Areas

A. Introduction

The following gives a general description of environmentally sensitive and socioeconomic areas.

B. Listing of Environmentally Sensitive and Socioeconomic Areas

An environmentally sensitive area is an area where the release of hazardous liquids has the likelihood to create significant long-term environmental harm or represents an imminent threat to human health.

For a listing of environmentally sensitive and socioeconomic areas, see "Section 13. Highly Sensitive Areas" in Volume II.

C. Identification

Hilcorp has identified the environmentally and socioeconomic areas in the vicinity of their pipeline facility:

- in-house knowledge of pipeline/tank systems
- information provided by state and federal agencies, and
- environmental consultants.

D. Determining the Impact

The table below describes the procedure to determine the impact to environmentally sensitive and socioeconomic areas.

Step	Action
1	Reference the environmentally sensitive and socioeconomic areas listed in "Section 13. Highly Sensitive Areas" of Volume II to determine which areas the release could impact.
2	Make a field assessment of the damage. • Identify the environmentally sensitive or socioeconomic areas that have been impacted. • Determine the extent of the impact. • Identify the environmentally sensitive or socioeconomic areas that could be impacted by the release.

E. Protection Goals

To protect environmentally sensitive and socioeconomic areas:

- keep released material out of the area
- reduce the amount that enters the area, and
- reduce the impact of the released material with timely removal and cleanup.

Note: At times, you must contain wildlife or prevent wildlife access to the impacted area. Make sure that you report any wildlife sightings to the Incident Commander. Conduct all wildlife protection efforts under the direction of the agency.

F. Responsibility

The Incident Commander, normally within a Unified Command, is responsible for determining which protective method or combination of methods to use to protect environmentally sensitive and socioeconomic areas.

Note: Be aware of any populated or traffic areas and wildlife that the release could impact.

7. Containment Procedures

CCR §817.02(e)(4)(A)(1-2)

A. Introduction

The following describes general containment procedures.

B. Water Surfaces

The following lists some procedures to consider when containing an oil release on water.

- Eliminate possible sources of ignition.
- Determine the actual speed of oil on water. Remember that oil on water may not travel at the same velocity as the river or stream. Use this knowledge for boom placement.
- Set booms considering river speeds and oil pickup points. Consider cascading booms if necessary.

C. Contaminated Surfaces

The following lists some procedures to consider when containing an oil release on land.

- Eliminate possible sources of ignition. Do not start vehicles in the vicinity of volatile materials that have been released.
- To avoid vapor ignition, divert or stop traffic if the release impacts a roadway.

- Prevent oil from entering into drainage or sewer systems, water courses, irrigation channels, or culverts. Block drains, dam ditches, and boom water courses and irrigation channels.
- Close water intakes.

D. Responsibility

The Incident Commander is responsible for determining the method or combination of methods to use to contain a release. The Incident Commander may delegate this responsibility.

E. Resources

OSRO's can help determine the proper containment procedures to use. In addition, outside experts and consultants can offer assistance.

F. Training

To comply with 29 CFR 1910.120(e), all personnel involved in a post-emergency response must be trained to work safely in hazardous waste operations. The workers must complete this training before engaging in hazardous waste operations.

G. Protection Methods

See Table titled "Protection Methods" in Appendix A of Volume II.

H. Trajectory Information

If a release occurs on water, containment personnel need to know the likely direction and rate of movement of the released material. In rivers and streams, the flow of the material is generally obvious to the eye.

If the trajectory of the release material is unknown or unpredictable, incident responders may have to obtain and analyze certain trajectory and weather information. In addition, response crews may use aerial surveillance. This data can then be analyzed by:

- Incident Commander
- OH&S , or
- consultants.

I. Trajectory Responsibility

The Incident Commander is responsible for determining the need for trajectory data and the involvement of consultants. The Incident Commander may delegate this responsibility.

J. Dispersant Plan

After an incident occurs, the Incident Commander must consider, with Unified Command, whether dispersants are a viable option.

Use of dispersants is prohibited without approval of the Regional Response Team and confirmation by the FOSC.

K. In-Situ Burn

After an incident occurs, the Incident Commander must consider, with Unified Command, whether in-situ burning is a viable option.

8. Estimating Volumes

A. Introduction

The following describes several recommended methods that can be used to estimate the volume of material released during an incident. Each incident is considered unique and requires its own solution to determine the volume of released material, therefore, other methods not described below may also be used with the approval of Corporate EH&S.

B. Method Determination

If possible, use more than one method for classified incidents. For most unclassified incidents, Method 1 should be adequate.

Note: Management reviews the volume estimated for regulatory reporting.

Method 1

In Method 1, the first foreman/Incident Commander arriving on the scene performs the estimate. The details of Method 1 are:

Detail	Description
Determination	experience based and estimated by observed impact
Purpose	• volume estimate to determine an order of magnitude on which to classify release event • volume estimate for initial regulatory reporting
Estimate	visual, determined by viewing the area covered and pooled oil (typically done without numerical calculation)

Method 2

Method 2 is an instrumentation-based calculation for classified incidents. Area personnel and Transportation Engineering personnel perform the estimate by using Control Center or other system instrumentation data. The details of Method 2 are:

Detail	Description
Determination	calculated volume estimate
Purpose	• a release volume estimate calculated using data from system instrumentation and real time events • confirmation of release volume estimate for Method 1
Estimate	*VR = [FR X (DT + RT)] + DV* VR = volume released FR = flow rate DT = detection time RT = response time (time to shut in and close valves) DV = drainage volume (including pressure release volume and line drainage volume)

Method 3

Method 3 is a calculation of the volume recovered and the loss of the material to the air, ground, and water. The Hilcorp consultant performs the estimate with input from Control Center, Head Office EH&S and field survey data. The details of Method 3 are:

Detail	Description
Determination	a calculated volume estimate
Purpose	• confirmation of release volume estimate for Methods 1 or 2, or • calculated volume released when instrumentation data is insufficient
Estimate	*VR = VV + (SV X SR) + PV* VR = volume released VV = volatilized volume (calculated by Hilcorp Consultant) SV = soil volume (field mapped to identify surface area covered and depth of penetration) SR = saturation ratio (field determined with Environmental Support – Transportation Engineering) PV = pooled volume (field determined)

Method 4

Method 4 is a line balance calculation from inventory and meter reading loss/gain changes following system restart and stabilization. Line balance is defined as: (Opening Inventory + Receipts) - (Closing Inventory + Deliveries). Area personnel and Hilcorp personnel perform the estimate with startup Control Center data or location data (as appropriate). The details of Method 4 are:

Detail	Description
Determination	system repack volume
Purpose	a confirmation of volume lost estimate for follow-up reporting
Estimate	$VR = LB_{post} - LB_{prior} - LR_{vol}$ VR = volume released LB_{post} =system imbalance following system startup and stabilization LB_{prior} =system imbalance prior to release occurrence LR_{vol} =line repair volume removed

The accuracy of this method depends upon:

- the amount of line drainage that occurs following the release
- how well the system was purged of air during restart
- system complexity
- temperature changes, and
- product batches in the system.

Method 5

Method 5 is a calculation based on the beginning batch size versus the delivered batch size. Area personnel, measurement and engineering personnel in Hilcorp perform the estimate with Control Center and/or field data defining batch loss/gain. The details of Method 5 are:

Detail	Description
Determination	batch volume loss
Purpose	• confirmation of release volume estimate for Methods 1 or 2, or • calculated volume released when instrumentation data is insufficient
Estimate	*VR = VV + (SV X SR) + PV* VR = volume released VV = volatilized volume (calculated by Hilcorp consultant) SV = soil volume (field mapped to identify surface area covered and depth of penetration) SR = saturation ratio (field determined with EH&S Support) PV = pooled volume (field determined)

Note: Only use this method if batch operations are occurring and the released material has been batch-identified. The spreading of batch interfaces during system downtime may be significant. This occurrence reduces the accuracy of this method.

Method 6

Method 6 is an executable program that may be used to calculate spill volumes on water. The program determines the volume of a spill based on the surface area of the oil on the water and color of the sheen. The program may be executed by clicking on the Bureau of Ocean Energy Management, Regulation, and Enforcement Pipeline Leak Estimator program.

Method 7

Method 7 is a calculation for determining the amount of oil contained in contaminated soil. This calculation is based on the volume of the soil contaminated and pore space of the soil.

Detail	Description
Determination	a calculated volume estimate based on volume of soil contaminated and pore space of soil
Purpose	confirmation of volume lost estimate for Method 1
Estimate	1. Measure the volume of the soil contaminated. *width* x *length* x *depth* = cubic feet 2. Determine average pore space between the soil grains--15% to 26% (pure sand) 3. Determine the cubic feet of oil contained in the soil by multiplying the result of step 2 by result of step 1. 4. Determine the gallons of oil contained in the soil by multiplying the result of step 3 by 7.48 (gallons/cubic feet). 5. Determine the barrels of oil contained in the soil by dividing the result of step 3 by 42 (gallons/barrel).

Example	You have a release site are of 30 feet by 25 feet by six inches. Determine the amount of oil in barrels contained in the soil. Assume the pore space to be 20%. 1. Volume of soil contaminated=30x25x.5=375 cubic feet 2. Average pore space=.20 3. Oil contained in the soil(in cubic feet)=375x.20=75 cubic feet 4. Oil contained in the soil (in gallons)=75x7.48=555 gallons 5. Oil contained in the soil (barrels)=555/42=13.2 barrels

9. Removal and Cleanup Procedures

CCR §817.02(e)(4)(A)(2)

A. Introduction

The following describes general removal and cleanup procedures.

B. Water Surfaces

The Shoreline Cleanup Advisory Team (SCAT) is put together by the Federal On Scene Coordinator. The Incident Commander and the cleanup coordinator should participate in the SCAT.

C. Contaminated Surfaces

There are several possible methods to use. See heading "Advantages and Disadvantages" in Appendix A of Volume II for a detailed description of the methods.

Consider these precautions:

- use high-pressure flushing only as a last resort and as approved by appropriate agencies, and
- burn only materials such as contaminated twigs and branches when properly permitted.

D. Responsibility

The Incident Commander is responsible for determining the method or combination of methods to use to remove and clean up a release. The Incident Commander may delegate this responsibility.

E. Resources

An EH&S representative should be contacted for determining the proper removal and cleanup procedures to use. In addition, outside experts and consultants can offer assistance.

F. Training

To comply with 29 CFR 1910.120(e), all personnel involved in a post-emergency response must be trained to work safely in hazardous waste operations.

The workers must complete this training before engaging in hazardous waste operations. In addition, they must know about:

- site characterization and analysis, and
- Site Safety and Health Plan.

The Site Characterization and Analysis is a description of the oil spill, worksite, and status of cleanup operations. The Site Safety and Health Plan describes safety and health subjects that are relevant to the particular oil spill.

10. Storage, Handling, and Disposal Procedures

A. Introduction

The following describes the procedures used to store, handle, and dispose of materials generated during a release incident and the associated cleanup.

Note: An EH&S representative should be contacted for guidance on storing, handling, and disposing wastes generated from spills.

B. Materials Generated by a Release

Hilcorp has identified four distinct categories of materials generated by a release and the associated cleanup:

- recovered oil
- oil-contaminated natural debris (leaves, twigs, etc.)
- oil-contaminated cleanup material (sorbent pads, oily rags, etc.), and
- oil-impacted soil.

C. Storage Procedures

Recovered Oil

Possible storage methods include:

- vacuum trucks
- frac tanks

- drums
- storage tanks at Hilcorp facilities
- barges
- lined pits, or
- other appropriate means.

When determining the type of storage container to use, consider the:

- amount and type of oil to recover
- availability of storage containers
- time needed to obtain and set up the storage vessels, and
- location of release.

Note: The Control Center may provide information on the type of material in the pipeline at the time of the release. Also, product/crude assays and Material Safety Data Sheets (Appendix C in Volume II) may be helpful in providing information about product/crude types in the pipeline.

Contaminated Natural Debris

When determining the type of storage container to use, check the amount and size of the contaminated natural debris. The table below describes the options.

If there is a...	**Then consider using...**
small to moderate amount of debris	UN drums, dumpsters, or roll-off boxes.
large amount of debris	surface piles. Plastic linings, tarps, or other protection may be required under the piles to prevent further spread of contamination.

Contaminated Cleanup Material

When determining the type of storage container to use, check the amount of contaminated cleanup materials produced at the site. To store this material, use:

- UN approved drums
- dumpsters, or
- other appropriate containers.

Note: You can place small volumes of contaminated materials in six mil plastic bags or plastic buckets for easy handling.

Impacted Soil

If possible, leave the impacted soil in place so external storage is not needed. If soil removal is needed to facilitate cleanup, help repair the pipeline, or limit further environmental impact, then surface piles are acceptable for storage. Plastic liners under these piles may be necessary.

To limit storm water runoff, consider precautions such as:

- covering piles with tarps or plastic, or
- building a berm around the piles.

Note: If there is only a small amount of impacted soil, then consider storing it in a similar way as contaminated natural debris.

D. Handling Procedures

Handling Recovered Oil

Possible methods to handle and transport recovered oil to a suitable pipeline injection point or refinery include:

- vacuum trucks
- transporters, or
- other appropriate modes.

The actual equipment and method used depend on the:

- amount and type of oil recovered
- location
- distance to be transported, and
- equipment that is readily available in the area.

When a release occurs in water, take special care in handling and recovering the oil in order to limit the amount of water recovered with the oil. If you recover large amounts of water with the oil, consider using some sort of oil/water separator to reduce the amount of water to be handled and transported.

Handling Contaminated Natural Debris

To ensure proper treatment and handling of contaminated natural debris, classify it as hazardous or non hazardous. The options for classifications are:

- use knowledge about similar debris from prior release sites, or
- if no prior knowledge, collect samples and have an Hilcorp approved laboratory perform the laboratory analysis.

Note: Contact a Company EH&S representative for assistance with classification.

Make every effort to contain the oil and lessen the debris impacted. When determining the way to handle, consider the:

- size
- type
- amount, and
- classification.

The handling methods include:

- hand collection
- hand tools (rakes, shovels, etc.)
- backhoes, and
- bulldozers.

To handle and transport contaminated natural debris, follow these guidelines.

- Wear the required personal protective equipment (PPE) to handle any debris
- Follow all applicable RCRA, DOT, and hazardous communication regulations
- Check all containers for defects, proper placement, alignment, and closure.

Handling Contaminated Cleanup Material

To ensure proper treatment and handling of contaminated cleanup material, classify it as hazardous or non-hazardous. The options for classification are:

- use knowledge about similar material from prior release sites if possible, or
- if no prior knowledge, collect samples and have an Hilcorp approved laboratory perform the laboratory analysis.

To reduce the amount of contaminated cleanup material to handle and transport, use sorbent and other materials appropriately during the response. Use and collect these cleanup materials by hand.

To handle and transport contaminated cleanup material, follow these guidelines.

- Wear the required PPE to handle any contaminated material.
- Follow all applicable RCRA, DOT, and hazardous communication regulations.
- Check all containers for defects, proper placement, alignment, and closure.

Impacted Soil

When possible, treat impacted soil in place. This procedure reduces the need for handling and transportation. When soils are handled, use normal excavating equipment, such as:

- shovels
- backhoes, and
- bulldozers.

The particular method for a particular site is based on the:

- amount and type of the soil
- location of the release
- availability of equipment, and
- time constraints.

If you must transport the soil off site, follow all applicable Resource Conservation and Recovery Act (RCRA), Department of Transportation (DOT), and hazard communication regulations.

E. Disposal Procedures

Recovered Oil

When possible, do not dispose of recovered oil. Instead, recycle it by injecting it back into the pipeline system or into one of the recovery systems at a refinery.

Contaminated Natural Debris

To reduce the amount of natural debris needing disposal, make every effort to clean the natural debris (so it can stay in place) including:

- low and high pressure flushing
- manual removal of oil, and
- other appropriate cleaning techniques.

Possible treatment/disposal options for contaminated natural debris include:

- burning on or off site
- remediation on or off site, or
- landfilling.

Follow these guidelines to dispose of contaminated natural debris.

- Input should be obtained from a Hilcorp EH&S representative and regulatory agency on the best approach for the given situation.
- Choose the disposal/treatment method.

- A Hilcorp EH&S representative will handle all the necessary permits and other details.

If you must dispose of the contaminated natural debris:

- conduct all the necessary testing required by applicable regulations and the particular disposal sites. Have an Hilcorp approved laboratory carry out all tests, and
- use a Hilcorp approved disposal site to discard all debris.

Contaminated Cleanup Material

To reduce the amount of contaminated cleanup material needing disposal, recycle and reuse response materials (booms, boots, etc.) whenever possible.

However, you must properly dispose of some materials used in the clean up (such as sorbent pads, disposable gloves, etc.). Follow these guidelines to dispose of contaminated cleanup material.

- Get a laboratory analysis to help determine what type of facility is appropriate for a given material (hazardous or nonhazardous)
- Make sure that an Hilcorp approved laboratory runs all the tests, and
- Dispose of all waste in an Hilcorp approved facility.

Have the Company EH&S representative:

- assist in collecting test samples
- obtain necessary permits
- select disposal facilities, and
- carry out the disposal.

Impacted Soil

In most cases, you should try to remediate impacted soil instead of disposing of it. The following table describes the factors to consider when treating/disposing of impacted soil.

Factor	Description
Decision-making criteria	• sampling results • soil characteristics • location
Strategy	Possible remediation techniques include: • natural biodegradation • soil vapor extraction • landfarming, and • other methods.
Monitoring protocols	EPA method SW846 is followed.
Obtaining regulatory approval	The local environmental representative contacts the regulatory agencies to get the necessary permits.
Obtaining equipment	The EH&S representative contacts environmental consultants to conduct sampling and provide remediation equipment.

If you cannot remediate the contaminated soils and must dispose of them, conduct the tests required by the disposal facility and consider the following:

- have an Hilcorp approved laboratory run all tests, and
- dispose of the waste in an Hilcorp approved facility.

11. Working With the Media

A. Introduction

The following explains how to work with the media. When an incident occurs, you must know how to work appropriately with the media, the public, and other external audiences.

Note: Hilcorp seeks to maintain an open line of communication with the media, communities, customers, employees, and the general public. An adverse

impression may occur if the public thinks that a company is unresponsive, confused, inept, reluctant, or unable to provide reliable information.

B. Objectives

The table below describes the primary objectives for working with the public and news media.

IF...	THEN...
dealing with the crisis	minimize the short-term effects.
working with the news media	minimize the long-term consequences.

Research has proven that the more media coverage given to an incident, the more important the public considers it. The media seeks and processes information, and then passes its version on to the general public. Therefore, the media can set the agenda for public discussion. It is important to make sure that the media gets the proper information.

C. Cooperating with the Media

In crisis situations, it is difficult for corporate people to "win" when they compete with the media, because the battle is always waged on the media's terms. It is easier for corporations to win when they collaborate with the media. When dealing with the media, corporate representatives should be:

- accessible
- up front
- straightforward
- responsive to the media's needs, and
- a resource before, during, and after a crisis.

D. Deadlines

The news business is driven by media deadlines. Be aware of deadlines and make them your targets. Knowing their deadlines makes dealing with the media easier. The table below describes the way the various news businesses operate.

Media Type	Description
Newspaper	• Reporters need time to write their stories in final form. • A copy editor reviews the story. • Editors write the headlines and place the articles, not the reporter.
Radio	Stations need time to assemble and edit the interview for broadcast.
Television	• Stations must edit the tape into final broadcast form. • If the incident is a crisis, expect live coverage from the scene and additional in-depth reports during scheduled newscasts.

E. Field Staff Media Management Protocol

The following describes the protocol for Field Staff when responding to the media.

- In the event of an incident or on-site media inquiry, field employees should immediately refer to the Hilcorp media policy to ensure full compliance.
- This policy states that no Hilcorp employee is authorized to answer questions or provide any information to a reporter without the approval of Michael Schoch - Director of Regulatory, Environmental and Safety or the designated alternate, Henri deLaunay - Environmental Manager.
- All media inquiries should immediately be referred to Michael Schoch at (713) 816-6350 (cell) or (713)-209-2400 (office), the designated alternate, Henri deLaunay, at (713)-824-8153 (cell) or (713)-209-2400 (office).
- One Hilcorp employee on-scene should be designated by Michael Schoch speak to arriving or inquiring media and refer them to the appropriate corporate spokesperson. (see above instruction)
- The following language is recommended for ensuring a clean and prompt handoff of media inquiries:
    - "The appropriate Hilcorp contact for all media questions is Michael Schoch. He may be reached at his office at (713) 209-2400, or on his cell phone at (713) 816-6350. He will have all the details and will be your best source of information."
    - In response to any follow-up questions from reporters or requests for comment from on-scene employees, the above statement should be re-stated as needed.

F. Role of Public Affairs

Hilcorp Public Affairs person Michael Schoch is responsible for writing new media releases, staging news conferences, and coordinating most other media-related activities.

12. Insurance Activation

A. Activation Process

The table below describes the insurance activation process.

Person/Group Handling	Action
Field land agent or appropriate counterpart	• Notifies the Hilcorp corporate insurance department. • Maintains communication with the Hilcorp corporate insurance department.
Joey Hayles , Manager of Risk Management	• Alerts appropriate carrier. • Maintains communication with the field land agent.
Insurance carrier	• Provides claims and investigating services • Coordinates claim if another carrier is involved.

B. No Activation

Insurance is not activated when the cost of the incident is less than the insurance deductible. Then, land agents or appropriate counterpart determine the fair market value of the property damaged and make settlements with the individual(s) involved.

13. Incident Response Review

CFR §194.121(b)(1)(v); §195.195.402(e)(9)

A. Introduction

The following explains the guidelines to follow for conducting a review of the incident response. Hilcorp must conduct a review of responses to certain incidents in accordance with:

- 49 CFR 194.121(b) after containment and initial cleanup of a "oil spill" to evaluate the implementation of the FRP and its adequacy, and
- 49 CFR 195.402(e)(9) to evaluate the effectiveness of emergency operational procedures.

B. Review of FRP Implementation and Adequacy (49 CFR Part 194)

Certain "oil spills" result in Hilcorp implementing its Facility Response Plan (FRP) and activating its location response team. In these cases, a review of the plans' implementation and the plan's adequacy must be conducted. This review should begin as soon as possible while the facts of the incident are fresh in the responders' minds. Ideally, this would be initiated during the proactive phase of the incident or immediately following conclusion of the response.

The following table outlines the responsibilities and the procedures for conducting a review of a response to contain and mitigate an "oil spill:"

Step	Action
1	Identify the review leader. Unless specifically directed otherwise by management, the review leader will be the Incident Commander for the facility.
2	The review leader will determine the depth of the review based upon the magnitude of the response and improvements encountered.
3	The Incident Commander may assign members of the response team as necessary to assist with the review.
4	Discuss all improvements regarding the response or the plan's adequacy with Hilcorp's Response Plans Coordinator before issuing the formal review.
5	All reviews must be documented on form SP-30-3, "Incident Response Review."
6	Consider the following guidelines in review preparation: • state only facts • do not express opinions • do not assign blame, and • do not evaluate individual performance.
7	Hilcorp's Response Plans Coordinator will serve as the focal point for addressing any noted improvements.

C. Review of Operational Response – 49 CFR Part 195

All operational responses to emergency conditions for hazardous liquid pipelines/tanks are required to be reviewed to determine the adequacy of the procedures in mitigating the different types of emergencies. The review will be the responsibility of the Hilcorp HS&E along with the Area Personnel.

D. Area Only Review – 49 CFR Part 195

The following table outlines the responsibilities and procedures for conducting a review of the operational procedures to mitigate an emergency at the facility:

Step	Action
1	Identification of the review leader. Unless specifically directed otherwise by management, the Pipeline/Field Operator responsible for the affected system(s) will conduct the review in conjunction with the IC/Operations Manager.
2	The IC will determine the depth of the review based upon the magnitude of the response and improvements encountered.

Step	Action
	As applicable, the review must cover the adequacy of the procedures which address the following: • receiving emergency notifications and evaluating the appropriate response • prompt and effective response to notifications for the various types of emergencies • personnel, equipment, instruments, tools, and materials as needed at the scene of an emergency • emergency shutdown or pressure reduction to minimize the volume of hazardous liquid that is released from any section of a pipeline system in the event of a failure • control of the released product on site to minimize the hazards • protection of the public by assisting with evacuation and traffic control • notification of fire, police, and other appropriate public officials and response coordination as appropriate for hazardous liquids, carbon dioxide, or highly volatile liquids (HVL), and • use of appropriate instruments to assess the extent and coverage of vapor cloud and hazardous areas resulting from HVL releases.
4	The review must contain as a minimum the following: • a "check mark" indicating that the review was performed • a signature of the person who performed the review, and • a date indicating when the review was performed.
5	A copy of all reviews shall be sent to: • Pipeline Regulatory Compliance Manager, and • Pipeline Regulatory Manager.
6	The Pipeline Regulatory Compliance Manager will serve as the focal point for addressing any noted improvements.

Section 4. Facility Response Plan Review and Revision

CFR §194.107(c)(1)(x); 194.121

In This Section

1. Review Procedures

A. How Often to Review

Hilcorp shall review the Facility Response Plan to verify the information contained within is up-to-date and current at least as follows:

- Once every 15 months (but at least once per calendar year), per federal (49 CFR Part 192 and 195).
- Once every five years from the last approval date per Federal (49 CFR Part 194) regulations. The Plan must be re-submitted to Pipeline and Hazardous Materials Safety Administration (PHMSA) for approval following this review.

If the Plan is found to be current after conducting the five year review, the Plan does not have to be re-submitted to PHMSA. However, a letter must be sent to PHMSA stating that the Plan was reviewed and that the Plan was determined to be current.

B. Who is Responsible

Hilcorp's Response Plan's Coordinator (RPC) [Pipeline Regulatory Compliance Manager] has the overall responsibility of maintaining the FRP. The following table describes the responsibilities associated with reviewing the FRP.

Who Does It	What Happens
RPC	Reviews the overall plan to verify that it is consistent with the NCP and ACP.
Regional Operations Manager/Engineer	Verifies that all local copies of the FRP are reviewed and current. (The Regional Operations Manager may delegate this responsibility.)
RPC	Verifies that the Head Office copies of the FRP are reviewed and current. (The RPC may delegate this responsibility.)
Plan Holder	Signs and dates the FRP Review Log in the front of the manual for each review.

1. Revision Procedures

• When to Revise

Hilcorp shall immediately revise the FRP if a new or different operating condition or information substantially affects the implementation of the FRP. These revisions shall be submitted to PHMSA and any applicable state agencies within thirty days of making the change. The following are examples of changes in operating conditions that are considered to cause a significant change to the FRP:

- Change in ownership
- An extension of an existing pipeline or construction of a new pipeline in a response zone not covered by the currently approved FRP
- Relocation or replacement of a pipeline in a way that substantially affects the information included in the FRP, such as a change to the worst case discharge volume
- Change in the type of oil transported, if the type affects the required response resources, such as a change from crude oil to gasoline
- Change in the primary oil spill removal organization(s) required to mediate the worst case discharge volume
- Post drill and post incident evaluation results which identify a significant deficiency in response capability
- Change in emergency response procedures
- Change in the qualified individual
- A change in the NCP or an ACP that has significant impact on the equipment appropriate for response activities, and
- Any other information relating to circumstances that may affect full implementation of the FRP.

• Who is Responsible

Hilcorp's Response Plans Coordinator (RPC) has the overall responsibility for maintaining the FRP. Therefore, all changes and revisions to this manual must be accomplished through the RPC.

He will be notified of all changes in the area that meet any of the criteria listed. He will also incorporate improvements into the Plan based on the post-drill evaluation results and the post-incident evaluation results. (The Regional Operations Manager may delegate this responsibility.)

- **Procedure for Revising**

The following table describes the process for revising the FRP.

Stage	Who Does It	What Happens
1	Response Plan's Coordinator	The Response Plans Coordinator: • reviews all proposed revisions and routes within applicable Hilcorp organizations for comment • has all necessary revisions drafted and dated • revises the information in Hilcorp • distributes the revisions to all manual holders to update their copies
4	Manual Holder	The Manual Holder updates the FRP Revision Log form in the front of the manual by signing and dating the form.
5	Response Plans Coordinator	The Response Plans Coordinator sends the appropriate regulatory agencies copies of all significant revisions.

Note: Hilcorp maintains relevant portions of its response plan at its corporate office and at there locations from which response activities may be conducted. Each qualified individual shall also have a copy of the response plan made available to them.

Section 5. Training

CFR §194.107(c)(1)(vii), 194.117

In This Section

1. Training

All Hilcorp employees who are identified as potential incident responders must satisfy these training requirements. They must take incident responder training once and take refresher courses or demonstrate competence every year.

A. Operations Personnel

Operations personnel are trained for the following:

- Responsibilities under this response plan
- Name and address of, and the procedure for contacting, the operator on a 24-hour basis, and
- Name of, and procedures for contacting, the Qualified Individual (Q1) on a 24-hour basis

B. Reporting Personnel

All reporting personnel are trained for the following:

- Content of the information summary of the response plan
- Toll-free telephone number of the National Response Center, and
- Notification process (both internal and external)

C. Company Response Personnel

Company response personnel are trained for the following:

- Characteristics and hazards of the discharge
- Hazardous Waste Operations (HAZWOPER)
- Conditions that are likely to worsen the emergency, including the consequences of facility malfunctions or failures, and the appropriate corrective actions.
- Steps necessary to control any accidental discharges and to minimize the potential for fire, explosion, toxicity, or environmental damage, and
- Proper firefighting procedures and use of equipment, fire suits and breathing apparatus.

2. Training Records

Records of employees trained with this section including any HAZWOPER training records are maintained at Hilcorp's headquarters and on an online training records management system and this is kept as long as the individual is assigned duties under the response plan.

3. Evaluation

Hilcorp will conduct personnel performance reviews and evaluate the effectiveness of the training program. Any changes to the training program that are required to ensure that it is effective will be made as necessary. The evaluation will be conducted once every calendar year, not to exceed 15 months.

4. HAZWOPER Emergency Responder Training

A. Introduction

Training required for Hilcorp employees is covered under OSHA 1910.120 (q) – Emergency Response to Hazardous Substance Releases. In addition, Hilcorp has minimum requirements to meet regulatory compliance for emergencies as well as post-emergency phase operations. These requirements are described in their Safety Manual (see HAZWOPER Training Procedure). The Hazwoper Training Procedure can be accessed on the Hilcorp Intranet at http://webaps.hilcorp.com/defailt.aspx. Table 5.-1 provides a summary of the OSHA training.

B. Responsibility

The Safety/Training Manager is responsible for verifying that area employees have met the training requirements stated by HAZWOPER.

C. Contractors

Contractors who provide HAZWOPER-related assistance or services (initial response and/or post-emergency response) to Hilcorp are required to comply with the OSHA HAZWOPER Standard and Hilcorp's Training Plan. The Incident Commander is responsible for verifying the contractor's certification.

Hilcorp expects contractors to arrange for the training of their employees.

Drills on spill response procedures will complement the training described above. These drills will be attended by the QI, AQI, IC's, other appropriate HPC staff, and, on a periodic basis, the OSROs. Further information on these drills is provided in Section 8 – Drill Procedures.

Table 5.-1
Personnel[1] Training Schedule

Type of Training	Description of Training	Frequency
Initial Training	• Pipeline operations • Spill response and emergency operations • OSHA 24-hour hazardous materials operations course • First aid course	Once, upon employment
OSHA Refresher Courses	• OSHA 8-hour hazardous materials operations refresher course	Annually
Spill Prevention and Response Course	• 4-hour spill response, and emergency operations refresher courses	Annually

1 Includes the QI, alternate QIs, SOs and other appropriate Hilcorp personnel

Section 6. Equipment Testing and Inspection

CFR §194.107(c)(1)(viii)

In This Section

1. Inspection & Testing Requirements

A. General

All company and contractor emergency response equipment must be inspected and maintained to ensure that the equipment:

- Is ready for use
- operates properly, and
- has been inventoried and re-supplied.

Equipment inspection records do not need to be obtained for any contractor which has a U.S. Coast Guard classification.

B. Company-Owned Equipment

One thousand feet of containment boom is stored at the Southwest Pass 24 Terminal. Bundles of adsorbent pads are maintained on the facility. This equipment is available for deployment within one hour upon the detection of a spill. The boom is deployed and tested and inspected for defects three times a year with assistance from one of their OSROs, Oil Mops.

Hilcorp relies on OSROs for all other spill response equipment. All OSROs referenced in this Plan must submit appropriate documentation annually to Hilcorp identifying their compliance with the drill requirements under OPA 90 and PREP.

2. Recommended Guidelines For Inspection & Testing

A. Frequency of Inspection

The frequency for inspecting and maintaining emergency response equipment is listed below.

Equipment to be Inspected	Frequency of Inspection
Spill trailer • manuals • supplies	Annually or after deployment of equipment during drill or actual emergency
Generators	Annually
Outboard motors	Annually
Pumps	Annually
Chain saws, blowers, and other small two-cycle engines	Annually
Communications equipment	Annually (quarterly for batteries)
Boom trailer (if applicable)	Annually or after deployment of equipment during drill or actual emergency

B. Guidelines For Inspection and Maintenance

Guidelines for inspection and maintenance of emergency response equipment are as follows:

Equipment to be Tested	Procedure
Generators	Run a minimum of 10 minutes under a load.  Run more often if deemed necessary by the area. Do the following steps prior to long-term storage. • Put the fuel stabilizer in the fuel tank. • Run the engine long enough to get the fuel stabilizer into the carburetor and then cut the fuel off at the tank. Run the engine dry. • Top off the fuel tank to prevent any condensation. • Clean and store dry small fuel tanks. • Remove the spark plug and spray inside the cylinder with a mist of WD-40 or other parts protector. Replace the spark plug. • Drain the fuel lines if possible.

Equipment to be Tested	Procedure
Outboard motors	Run a minimum of 10 minutes. Either place the lower unit in a drum of water or use an adapter to connect the water hose to the lower unit. Do the following steps prior to long-term storage. • Put the fuel stabilizer in the fuel tank. • Run the engine long enough to get the fuel stabilizer into the carburetor and then cut off the fuel at the tank. Run the engine dry. • Top off the fuel tank to prevent any condensation. • Clean and store dry small fuel tanks. • Drain the lower unit and replace with a fresh lower-unit oil. • Remove the spark plugs and spray inside the cylinder with a mist of WD-40 or other parts protector. Replace the spark plug. • Drain the fuel lines if possible. Consider having a spare fuel line available.

Equipment to be Tested	Procedure
Pumps	Run for at least 10 minutes. Do the following steps prior to long-term storage. • Flush the pump with fresh water. • Drain the pump of all water and spray a heavy mist of WD-40 or other parts protector into the suction of the pump. • Put the fuel stabilizer into the fuel tank. • Run the engine long enough to get the fuel stabilizer into the carburetor. • Turn the fuel off at the tank and run the carburetor dry.  If the carburetor has a drain plug, open the drain to remove any fuel left.
Chain saws, blowers, and other small two-cycle engines	Do not test provided that you follow these long-term storage procedures. • Run the engine dry of fuel. • Air-dry the fuel tank. • Remove the spark plug and spray inside the cylinder with a mist of WD-40 or other parts protector. Replace the spark plug. • Spray or wipe with a light coating of oil on bar and chain of chain saw.

<table>
<tr><th>Equipment to be Tested</th><th colspan="2">Procedure</th></tr>
<tr><td rowspan="5">Communications equipment</td><td colspan="2">Do the following according to type of equipment.</td></tr>
<tr><td>Equipment</td><td>Procedure</td></tr>
<tr><td>Two-way radio</td><td>Check the power and frequency with a service monitor.</td></tr>
<tr><td>Satellite</td><td>Assemble the transportable INMSRSAT terminal.
Set up and make a call.</td></tr>
<tr><td>NICAD battery</td><td>Cycle all batteries including spares using the battery cycle system.
Store in the proper case.</td></tr>
<tr><td>Battery inverter and DC power supplies</td><td>Check under load.</td></tr>
</table>

Section 7. Drill Program

CFR §194.107(c)(1)(ix)

In This Section

1. Introduction

This section includes a description of Hilcorp's drill procedures and exercises that are used to assess whether its response plan will function as planned.

Hilcorp has elected to follow the appropriate agency guidelines in the National Preparedness for Response Exercise Program (PREP) in fulfilling its drill requirements under the Oil Pollution Act of 1990 (OPA 90). Hilcorp performs its drill in comjunction with Oil Mop under their Response Drill Management Program. The Operations Manager, or his designee and Oil Mop are responsible for implementing the drill procedures described in this section.

2. Required Drill Exercises

A. Internal Announced Exercises

The following exercises of this plan are conducted internally by HPC:

- Quarterly exercise of the Qualified Individual (QI) notification procedures
- Annual unannounced internal drill
- Annual tabletop drill conducted by the Hilcorp Spill Management Team
- Annual drill of Hilcorp's OPSRO's equipment deployment capabilities
- Once every three years, a drill that covers each component of the entire response plan for each response zone is completed
- Company owned equipment deployment drills

It is noted that responses by HPC personnel to actual notifications can be used, as appropriate, for any of the above exercises.

The yearly drill schedule for all response zones is:

- determined by the Pipeline Manager
- coordinated with EH&S as appropriate
- adjusted according to work activities throughout the year.

Quarterly Qualified Individual Notification Exercises

The QI notification exercise is designed to verify that the QI or AQI's are able to be notified in a spill response emergency. The QI notification exercise will be conducted quarterly. At least once annually, the date and time of the QI notification exercise will be chosen randomly and conducted during non-business hours. The personnel manning the HPC Emergency Notification Number will initiate the random, non-business hours exercise. Telephone, radio, pager, or facsimile will contact the QI, and the QI will be required to confirm that notice of the spill exercise was received.

At least once every six months the QI or his designated representative will call emergency contact numbers on the notification list (Section 9) to confirm that phone numbers on the list are current.

A Notification Exercise Documentation Form is provided in Appendix B. HPC keeps copies of the form on file in its Corporate Office and at the facility.

The table below describes the certification process for notification drills.

Stage	Responsible Individual(s)	Activity
1	Pipeline / Operation Manager	Certify and document each notification drill, including the following in the documentation: • the owner/operator's name • drill date and time • type of drill conducted • zone drilled • names of participants • brief description of drill (include a listing of the incident response components of the facility response plan that was exercised), and • lessons learned. • Retain copies of the documentation for three years.

Unannounced Internal Drill

The Unannounced Internal Drill Procedure is designed so that the individuals involved do not know the scenario. They may or may not know that there is a drill on that day. The unannounced drill may include: a plain tabletop with actual phone calls / deployment / extra. Everyone will be made aware that it is just a drill.

An Emergency Procedure Exercise Documentation Form is provided in Appendix B of Volume II. HPC keeps copies of the form on file in its Corporate Office and at the facility.

The table below describes the certification process for unannounced internal drills.

Stage	Responsible Individual(s)	Activity
1	Pipeline / Operation Manager	Certify and document each unannounced internal drill, including the following in the documentation: • the owner/operator's name • drill date and time • type of drill conducted • zone drilled • names of participants • brief description of drill (include a listing of the incident response components of the facility response plan that was exercised), and • lessons learned. • Retain copies of the documentation for three years.

Annual Hilcorp Spill Management Team Tabletop Exercise

HPC personnel and OSROs will organize and participate in an annual tabletop exercise. The exercise will involve implementation of all or portions of the Plan in order to verify personnel are familiar with the Plan and able to use it effectively. The spill scenarios discussed can include various size discharges, but at least once every three years, the tabletop exercise will involve a worst-case discharge scenario.

The HPC QI or a designee will initiate and organize the tabletop exercise. The exercise will include a review of the following:

- The Plan
- Notification procedures
- Communication systems
- OSRO notification
- Management responsibilities during the spill response
- Coordinate with the on-scene coordinator (OSC) (if applicable)
- The Area Contingency Plan(s) (if applicable)

The OSRO will be required to either participate in the annual tabletop exercise or conduct their tabletop exercise. In addition, the EPA OSC or other response agency personnel may take part in the exercises.

If a contracted OSRO conducts its own annual tabletop exercise, they are to include participation from one or more HPC representatives. During the tabletop exercise, the OSRO must utilize the HPC's Plan to verify familiarity with the spill scenarios as well as the specific operations of the HPC systems. The OSRO must demonstrate to the QI that it can merge their capabilities with the capabilities of HPC during spill response. The OSRO must provide HPC with documentation upon completion of such a tabletop exercise.

A Emergency Response Team Table Top Exercise Documentation Form is provided in Appendix B, Volume II. HPC keeps copies of the form on file in its Corporate Office and at the facility.

The table below describes the certification process for internal tabletop drills.

Stage	Responsible Individual(s)	Activity
1	Emergency Management, and SMT Coordinator	Certify and document each internal tabletop drill, including the following in the documentation: • the owner/operator's name • drill date and time • type of drill conducted • zone drilled • names of participants • brief description of drill (include a listing of the incident response components of the facility response plan that was exercised), and • lessons learned.
2	SMT Coordinator	Retains copies of the documentation for three years.

Annual OPSRO's Equipment Deployment Exercises

Hilcorp will verify that their OSRO's who are the major equipment providers identified in this plan participate in annual equipment deployment either as a result of an actual spill, training, or an exercise. Deployment will include a representative example of equipment as outlined in PREP and described below.

An annual equipment deployment exercise tests the ability of the OSRO to deploy and operate spill response equipment and to verify that the equipment is in good operating condition. Personnel that would normally deploy, operate, or supervise the use of the equipment will participate in the deployment exercise.

The OSRO must participate in the equipment deployment exercises or conduct its own equipment deployment exercises annually. At a minimum, the OSRO should deploy one of each pump or other type of skimming equipment, one of each type of boom, and a representative sample of personnel during the exercise. The OSRO should not use the same equipment and personnel repeatedly for each exercise, but should select equipment on a rotational basis. HPC receives documentation of equipment deployment exercises, rotation of equipment and personnel, and spill response equipment inspections and maintenance from the OSRO if it does its own separate exercises. At least once every three years, the facility will conduct an emergency deployment drill that requires the OSRO to deploy equipment at the facility.

An Equipment Deployment Exercise Documentation Form is provided in Appendix B, Volume II. HPC keeps copies of the form on file in its Corporate Office and at the facility.

The table below describes the certification process for OSRO-owned equipment deployment drills.

Stage	Responsible Individual(s)	Activity
1	SMT Coordinator	Shall ensure that all OSROs for their respective areas have an Emergency Response Agreement (ERA). ERA's are completed through Procurement.
2	Hilcorp	Certifies and documents that each OSRO identified in the appropriate Facility Response Plan conducts an annual OSRO-equipment deployment drill and an ongoing inspection and maintenance program, including the following in the documentation: • OSRO's name • drill date • type of drill conducted • location of drill • names of participants • type and amount of equipment deployed • objectives of the drill, and • brief summary of the OSRO's inspection and maintenance program.  All Hilcorp plan holders identifying an OSRO in their response plan shall receive credit for that OSRO-owned equipment deployment drill conducted annually as long as the OSRO-equipment deployed is deployed into the intended operation environment as identified in the appropriate Facility Response Plan. • Obtains all copies of OSRO Drill Certification. • Retains all OSRO-owned equipment deployment drill documentation at the Office of Record (Houston, Texas) for three years.

Triennial Exercise of Entire Response Plan For Each Response Zone

All components of the Plan will be exercised at least once every three years by following the exercise program. It is not a requirement that all components be exercised at one time in a major exercise. Instead, various components of the Plan may be identified and exercised separately, as long as each component is exercised at least once during a three-year cycle. In the course of the triennial cycle, the following exercises will be conducted:

- 12 QI notification exercises and unmanned pipeline emergency response procedures
- 3 spill management team tabletop exercises, at least one of which will involve a worst-case discharge scenario
- 3 unannounced exercises
- 3 OSRO equipment deployment exercises

Responses to actual or perceived spills may be credited toward these requirements. After a spill event, the QI will evaluate the response to determine if the requirements of any of the exercises described in this section were completed. If so, the spill response will count as credit for one of each type of exercise to which the spill response was applicable. The QI will document the actual spill response as credit for an exercise on the documentation form for that exercise.

The following fifteen components of the plan are exercised by following the triennial schedule:

- Spill notification
- Personnel mobilization
- OSRO mobilization
- Discharge Control
- Discharge assessment
- Discharge containment
- Crude Oil recovery
- ESA protection
- Disposal of recovered material and cleanup materials
- Communication system
- Transportation ability
- Personnel support
- Equipment Maintenance and support
- Procurement of spill response personnel and equipment
- Response documentation

A Triennial Exercise Documentation Form is provided in Appendix B. HPC keeps copies of the form on file in its Corporate Office and at the facility.

The table below describes the certification process for the entire response plant drill.

Stage	Responsible Individual(s)	Activity
1	SMT Coordinator	Shall ensure that all OSROs for their respective areas have an Emergency Response Agreement (ERA). ERA's are completed through Procurement.
2	Hilcorp	Certifies and documents that each OSRO identified in the appropriate Facility Response Plan conducts an annual OSRO-equipment deployment drill and an ongoing inspection and maintenance program, including the following in the documentation: • Spill notification • Personnel mobilization • OSRO mobilization • Discharge Control • Discharge assessment • Discharge containment • Crude Oil recovery • ESA protection • Disposal of recovered material and cleanup materials • Communication system • Transportation ability • Personnel support • Equipment Maintenance and support • Procurement of spill response personnel and equipment • Response documentation • Obtains all copies of OSRO Drill Certification. • Retains all OSRO-owned equipment deployment drill documentation at the Office of Record (Houston, Texas) for three years.

Company-Owned Equipment Deployment Drills

Hilcorp's PREP and boom deployment drill training is maintained by Oil Mop and Hilcorp. Oil Mop provides the manpower, forms and documentationfor the deployment. The drillsA form is provided in Appendix B. This equipment is available for deployment within one hour upon the detection of a spill. The boom is deployed, tested and inspected for defects three times a year (two "announced" and one "unnannounced") with the assistance of Oil Mop. Forms are generated at Oil Mop.

3. Authorities

The following individuals/groups have the authority for calling announced and unannounced drills:

- State and Federal government organizations, in accordance with applicable laws and regulations
- Pipeline Manager in conjunction with Oil Mop

4. Evaluation

Drills are intended to be a training and learning experience and should be treated as such. To get the most benefit from each drill, the Incident Commander is responsible for ensuring objective, open and honest evaluation of:

- personnel
- procedures
- drill scenarios, and
- other factors.

Lessons learned that result in response plans revisions are sent to the Hilcorp Response Plans Coordinator (Pipeline Manger) and will be made in a timely manner.

5. Credit

Hilcorp may receive partial or full drill credits if Hilcorp participates in:

- other Hilcorp companies' drills
- local cooperative drills
- mutual aid association drills
- local government emergency response organizational drills
- announced and unannounced state and federal drills
- contractor drills exercising response equipment, or

- response to an actual release or suspect release.
- The OSROs referenced in this Plan must submit appropriate documentation to Hilcorp identifying their compliance with the drill requirements under OPA 90 and PREP. However, if any of the above should occur, Hilcorp's spill response must be evaluated and documented for credit purposes.

6. External Exercises

A. DOT-Initiated Unannounced Exercises

Government-initiated unannounced exercises may be required by the DOT. The pipeline must participate in an unannounced exercise if directed to do so by the DOT unless it has already participated in a federal government-initiated unannounced exercise in the 36 months prior to the request.

The table below describes the certification process for Unannounced Tabletop OPS Drills.

Stage	Responsible Individual(s)	Activity
1	OPS staff	Certify and document the drill, including the following in the documentation: • the owner/operator's name • drill date and time • type of drill conducted • zone drilled • names of participants • brief description of drill (include a listing of the incident response components of the facility response plan that was exercised) • lessons learned, and • provide Hilcorp and other government agencies with copies of the documentation.
2	SMT Coordinator	• Retains copies of the documentation for three years.

B. Area Exercises

The pipeline may be asked to participate in an area exercise designed to test the response community in the area. These are conducted and led by facilities in the area and the regulatory agencies. HPC participation must be requested and ASTP will participate if personnel are available. HPC will only be required to participate in one area exercise within any six-year period.

A joint evaluation team composed of federal/state agencies and industry participants develops an evaluation process, evaluates the governmental area drill and completes an evaluation report. An evaluation report should be completed not later than 60 days after completion of the Governmental Area Drill.

Hilcorp Energy Company

Facility Response Plan

Volume II

2010

Hilcorp Energy Company
1201 Louisiana
Suite 1400
Houston, TX 77002

Table of Contents

FRP Review & Revision Logs

In This Section

Facility Response Plan
Volume II_FRP Review & Revision Logs

Revised 09-28-2010

This program is intended to cover Hilcorp Energy Company, Harvest Pipeline Company, and the assets owned and/or operated by either such company and/or their respective affiliates. Each reference to Hilcorp shall mean Hilcorp Energy Company or Harvest Pipeline Company, as applicable.

Distribution of Plans

VOLUME II Distribution	
NOTE: The Distribution of this Plan is controlled by the Copy Number located on the front cover.	
COPY NUMBER	**PLAN HOLDER**
1	Troy S. Brown Pipeline Manager Harvest Pipeline 1201 Louisiana, Suite 1400 Houston, TX 77002
2	Southwest Pass Terminal Plaquemines Parish, LA
3	Mike Schoch Director - Envir / Health / Safety / Emergency Response Harvest Pipeline 1201 Louisiana, Suite 1400 Houston, TX 77002
4	Melanie Barber – Response Plans Officer U.S. DOT Office of Pipeline Safety 1200 New Jersey Avenue SE – E- 22 - 321 Washington, D.C. 20590
5 (to be submitted)	Louisiana Oil Spill Coordinator's Office Office of the Governor Mr. Roland Guidry 150 Third Street, Suite 405, Baton Rouge, LA 70801

Facility Response Plan
Volume II_FRP Review & Revision Logs

Revised 09-28-2010

FRP Review/Revision Log

NOTE: It is the responsibility of the holder of this plan to insure that all changes and updates are made. The holder shall: remove and discard obsolete pages; replace obsolete pages with the updated pages.

Change Date	Affected Page Number(s)	Description of Change(s)
9/27/2010	All	Manual revised from previous version of FRP.

FRP Sensitivity Map Revision Log

NOTE: Old maps should be removed and replaced with the attached maps as indicated below. New maps will be noted as **NEW** and should be added in alphabetic order according to system name in the appropriate section.

Date	Section	State	Pipeline	Map
9/27/2010	13-1	Louisiana	Southwest Pass 24 Crude Terminal	All Maps

Section 8. Response Zone Summary

In This Section

1. Operator Address
2. Qualified Individuals
3. Facilities Within Response Zone
4. Zone Classification
5. NCP & ACP Review
6. Type of Oil and Volume of the Worst Case Discharge

Facility Response Plan
Volume II_ Section 8_Response Zone Summary

Hilcorp Energy Company
Regulatory Compliance

Revised 09-28-2010

1. Operator Address

CFR §194.113(b)(1)

Hilcorp Energy Company
1201 Louisiana
Suite 1400
Houston, TX 77002
713-209-2400
800-000-0000—24-Hour Number

2. Qualified Individuals

CFR §194.113(b)(2)

The following are the names and telephone numbers of the Qualified Individual (QI) and the Alternate Qualified Individuals.

Qualified Individuals			
Name/Position	**Office**	**Cellular**	**Home**
Mike Schoch, Director - Envir / Health / Safety / Emergency Response (QI)*	713/209-2416	713/816-6350	(b) (6)
Rob Kennedy, Louisiana Area Supervisor, (QI)	225/261-4580	225/933-6944	
James Coulter, Safety/Training Manager, (QI)	713/209-2400	713/724-2613	
Henri deLaunay, Environmental Manager, (QI)	713/209-2400	713/824-8153	
Shawn Kelley, EH&S Field Coordinator, (Alternate QI)	337-406-2828	337/303-5195	
Cory Johnson, Environmental Coordinator, (Alternate QI)	713/209-2400	713/791-3563	
Lance Melancon, Reg, Safety & Envir - EH&S Field Coordinator (Alternate QI)	504/304-0450	985/860-7901	

3. Facilities Within Response Zone

CFR §194.113(b)(3-4)

The table below lists the pipeline facilities within the GOM - Louisiana Response Zone.

Gulf of Mexico – Louisiana Response Zone						
System Name	**Name of Pipeline**	**Type of Oil**	**Starting Mile Post**	**Ending Mile Post**	**Parishes**	**State**
Crude Oil Systems						
SW Pass	SWP 24 Terminal	Crude Oil	(b) (7)(F) [redacted]		Plaquemines	LA

4. Zone Classification

CFR §194.113(b)(5)

This response zone has been determined to meet the significant and substantial harm classification because the SWP 24 Terminal breakout tanks within the response zone have met at least one of the criteria listed in 194.103(c). A tank rupture occurring at the SP 24 Terminal could cause significant and substantial harm to the environment due to its proximity to navigable waters.

5. NCP & ACP Review

CFR §194.107(b)

The response zone has been reviewed for consistency with the following plans:

- National Contingency Plan (NCP)
- EPA Region 6 Regional Integrated Contingency Plan (RICP)
- Southeast Louisiana Area Contingency Plan
- One Gulf Plan and its MSO New Orleans/MSO Baton Rouge GRP
- MSO Morgan City Area Contingency Plan (ACP)
- Texas Oil Spill Planning and Response Toolkit November 2009 Maps/Charts

And that this response plan is consistent with the NCP and each applicable ACP as follows:

Minimum Consistency with the NCP *(CFR §194.107(b(1))*:

- The operator has a clear understanding of the function of the Federal response structure, including procedures to notify the National Response Center reflecting the relationship between the operator's response organization's role and the Federal On Scene Coordinator's role in pollution response. (Refer to Vol I, p-35 ICP).
- Provisions to ensure the protection of safety at the response site is addressed on pages 50 and 60 of this manual.
- Procedures to obtain any required Federal and State permissions for using alternative response strategies such as in-situ burning and dispersants as provided for in the applicable ACP include the preparation of a preauthorization plan to be submitted to the appropriate agency prior to use.

Minimum Consistency with the ACP *(CFR §194.107(b(2))*:

- The removal of a worst case discharge and the mitigation or prevention of a substantial threat of a worst case discharge is discussed in Section 12.
- Environmentally and economically sensitive areas are identified in Section 12.

- Hilcorp understands the responsibilities of the operator and of Federal, State and local agencies in removing a discharge and in mitigating or preventing a substantial threat of a discharge. The response resources identified in Appendix D that are available to respond, after discovery of a worst case discharge, or to mitigate the substantial threat of such a discharge can be performed within the times specified. Should the threat exceed the capabilities of the contracted OSRO then Federal, State and local agencies may be engaged.

- Hilcorp will utilize their OSRO's experience for establish the procedures for obtaining an expedited decision on use of dispersants or other chemicals.

- Use of Burning Agents requires Regional Response Team (RRT) and approval. After completing the process and forms described in pages 6 through 8 of RRT VI, Guidelines for Inshore / Nearshore In-situ Burn, (In-Situ Burning Authorization Form), the IC should present the information on the completed forms to the FOSC, who may approve the in situ burn within areas covered by RRT pre-authorization. For other areas, the FOSC must seek authorization from the RRT prior to approving burning.

6. Type of Oil and Volume of the Worst Case Discharge

CFR §194.113(b)(6)

Type of oil: Crude oil (see Appendix C for MSDS)

(b) (7)(F) [redacted]

Abnormal operating conditions that could lead to the WCD from the breakout tanks are lightening strikes, fires, or explosions, all of which could be triggered during the adverse weather conditions.

Pipeline System

In terminal piping only

Line Section or Mile Post

(b) (7)(F) [redacted]

County/State

Parish / State

Plaquemines / Louisiana

*** FOR ADDITIONAL INFORMATION, SEE SECTION 13**

CFR §194.107(c)(1)(ii)

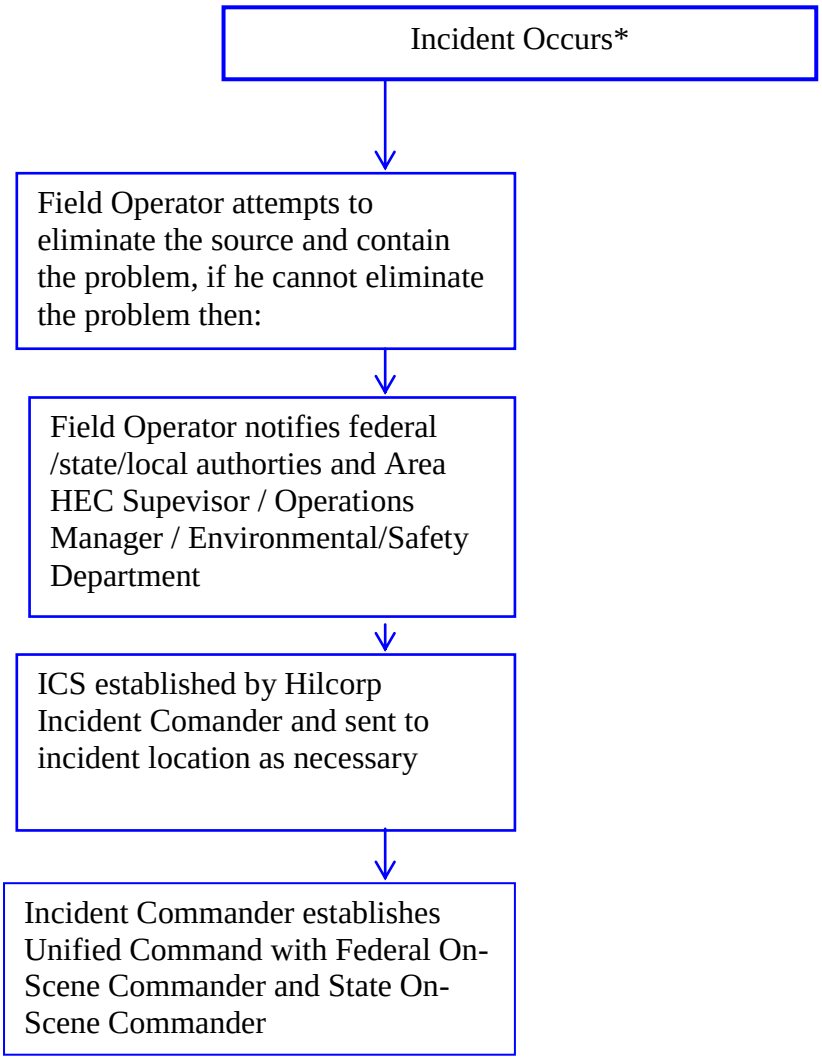
Section 9. Notifications

In This Section

1. Internal Notification

A. General Notification Flowchart

The following is a general notification flowchart that is to be used as a guide in the event of a reportable incident.



* For internal reporting procedures, refer to HS&E Incident Reporting and Investigation Procedure (including Spill / Gas Release Report). *Gulf of Mexico Region – Louisiana Response Zone. Please note that during an emergency, the Control Center could be relocated to the backup site.*

B. Notification Checklist

CFR §194.107(c)(1)(ii)

Figure 10.1 is a sample notification checklist for reportable incidents. A copy is provided in Appendix B.

Hilcorp Energy Company Corp. Office
1201 Louisiana St., Suite 1400
Houston, TX 77002

Hilcorp Energy Company

SP24 Terminal

SPILL / GAS RELEASE REPORT

Is this an HEC Spill? _____ HEC Supervisor Signature: _____

Date:	Time:	HEC Personnel who verified spill:			
Fluid Type / Estimated Volume	Oil / Condensate (circle one) bbls		Gas mcf	Field:	
	Saltwater bbls		Other	Precise Location/GPS Cord:	
Temp:	Wind Direction:		Wind Speed:	Wave Height:	
Current Conditions:					
Probable Cause of Incident / Initial Action Taken:					
Physical Description of Impacted Area:					

Notification	**Phone No.**	**Time Notified** / Incident # / Name	Notification	**Phone** No.	Time Notified / Incident #1 Name
Oil Mop	800-645-6671		TX RRC District 1&2	210-227-1313	
AMPOL	800-482-6765		TX RRC District 3	713-869-5001	
Global Pollution Ser	337-478-4181		TX RRC District 4	361-242-3113	
US Environmental	281-867-4100		TX RRC District 5&6	903-984-3026	
ES&H	877-437-2634		TX RRC Pipeline	512-463-7194	
Anderson	281-479-5300		MS DEQ	800-222-6362 601-961-5171	
Clean Gulf Assoc	888-242-2007		MS O&G Board	601-354-7142	
EPA	214-655-6222		MS Emer Board	800-222-6362 601-352-9100	
National Resp Centre	**800-424-8802** 202-267-2675		MS State Police	601-987-1530	
USCG - N.O.	504-589-6261		AL Dept of Env	334-260-2700	
USCG - M.G.	985-380-5320		AL O&G Board	205-349-2852 334-438-4848	
USCG - L.C.	337-491-7800		LA State Police / DEQ	225-925-6595	
USCG - B.R.	225-298-5400		LA Office of Conservation	225-342-5540	
USCG - Houma	985-851-1692		LOSCO	225-219-5800	
TX General Land Office	800-832-8224		Local Emergency	911	
TX RRC Accident	512-463-6788		LA- Pipeline Safety	225-342-5505	
TCEQ	800-832-8224				
BOEMRE	504-736-2814 504-452-3562				

Harvest PL
Page 2 of 3

Injuries or Evacuations? Explain
Damage to Marsh/Wildlife/Land/Property? Explain
Response & Clean-up/Remedial Activities:

(b) (6)

Name	Pager/Other	Mobile	Time
Michael Lopez - Asset Oper Mgr		713-569-2363	
Ashley Washington – EH&S	979-299-0103	979-482-4249	
Rob Kennedy – Area Supervisor / LA		225-933-6944	
Stephen Whiteley - Oper Engineer	713-289-2847	832-341-2597	
Stacy Beach –Area Supervisor / South TX		979-482-1849	
Brad Nauman – Area Supervisor	713-289-2895	713-628-1611	
Rick Edwards - Lead Field Operator	361-526-2202 x272	361-877-3377	
Harvey Land - Plant Mgr	979-548-2144	979-482-0548	
Mike Schoch - Env/Safety Mgr		713-816-6350	
Henri deLaunay - Env Coord		713-824-8153	
Cory Johnson - Env Coord		713-791-3563	
James Coulter - Safety Coord		713-724-2613	
Shawn Kelley - Field EH&S Coord		337-303-1595	
Lance Melancon -Field EH&S Coord		985-860-7901	

The following are considered reportable incidents:

SPILLS-

*A reportable spill shall be deemed any liquid spill greater than or equal to one barrel or causes a sheen on the water. Note: Any spill less than one barrel should be reported to the Supervisor.

*All gas pipeline leaks or ruptures which could cause harm or damage to the environment, people or

wildlife. *Any other incident which you deem could cause harm to people or the environment.

The following steps should be taken immediately:

1. Eliminate the source of the problem (spill / leak)
2. Contain the problem.
3. Notify appropriate Federal/State/Local Authorities.
4. Notify appropriate HEC personnel.
   A. Area HEC Supervisor (Regional, Robert Kennedy)
   B. Operations Manager (Corporate, Michael Lopez)
   C. Environmental/Safety Department (Corporate, see HSMT List)

All of the above Hilcorp personnel are to be notified

Use corporate address for all reporting responses – 1201 Louisiana St., Suite 1400, Houston, TX 77002

FIELD STAFF MEDIA MANAGEMENT PROTOCOL

In the event of an incident or on-site media inquiry, field employees should immediately refer to the Hilcorp media policy to ensure full compliance

- This policy states that no Hilcorp employee is authorized to answer questions or provide any information to a reporter without the approval of Michael Schoch - Director of Regulatory, Environmental and Safety or the designated alternate, Henri deLaunay - Environmental Manager.
- All media inquiries should immediately be referred to Michael Schoch at (713) 816-6350 (cell) or (713)-209-2400 (office), the designated alternate, Henri deLaunay, at (713)-824-8153 (cell) or (713)-209-2400 (office).

  One Hilcorp employee on-scene should be designated by Michael SchociLL9 speak to arriving or inquiring media and refer them to the appropriate corporate spokesperson (see above instruction
- The following language is recommended for ensuring a clean and prompt handoff of media inquiries:

  The appropriate Hilcorp contact for all *media questions is Michael Schoch. He may be reached at his office at (713) 209-2400, or on his cell phone at (713) 816-6350. He will have* all *the details and will be your best source of information."*
- In response to any follow-up questions from reporters or requests for comment from on-scene employees, the above statement should be re-stated as needed.

C. Spill Management Team (SMT)

The following table lists members of the Hilcorp Spill Management Team who may need to be contacted in the event of a release.

Spill Management Team (SMT)			
Position	**Name**	**Office**	**Cellular**
Incident Commander	Mike Schoch	713/209-2400	713/816-6350
	James Coulter	713/209-2400	713/724-2613
	Henri deLaunay	713/209-2400	713/824-8153
Safety Officer	James Coulter	713/209-2400	713/724-2613
	Shawn Kelley	713/289-2689	337/303-5195
	Lance Melancon	504/304-0450	985/860-7901
Liaison Officer	Henri deLaunay	713/209-2400	713/824-8153
	Cory Johnson	713/209-2400	713/791-3563
	Travis Jones	713/289-2689	832/748-8128
Communications	Mike Schoch	713/209-2400	713/816-6350
	Henri deLaunay	713/209-2400	713/824-8153
Operations Chief	Troy Simar	337/519-3860	
	Ashley Washington	716/289-2875	979/482-4249
	Larry Albrecht	713/289-2647	713/502-4234
	Henri deLaunay	713/209-2400	713/824-8153
Planning Chief	Larry Albrecht	713/289-2647	713/502-4234
	Billy Jacks	713/209-2453	713/480-1044

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Revised 09-28-2010

Spill Management Team (SMT)			
Position	**Name**	**Office**	**Cellular**
	Cory Johnson	713/209-2400	713/791-3563
	James Coulter	713/209-2400	713/724-2613
	Lance Melancon	504/304-0450	985/860-7901
Logistics Chief	Ashley Washington	716/289-2875	979/482-4249
	Troy Simar	337/519-3860	
	Shawn Kelley	713/289-2689	337/303-5195
	Cory Johnson	713/209-2400	713/791-3563
Finance Chief	Ashley Washington	716/289-2875	979/482-4249
	Billy Jacks	713/209-2453	713/480-1044
	Travis Jones	713/289-2689	832/748-8128
	Mike Schoch	713/209-2400	713/816-6350

D. Communications

Hilcorp recognizes the media's legitimate interest in emergency situations and benefits from cooperation with them. This cooperation promotes rapid and accurate reporting of the facts, and dispels rumors and exaggerated accounts which can frequently occur.

When to Notify

Communications should be contacted when there is:

- a fatality or serious injury
- the potential for significant environmental damage
- a potential need to evacuate
- substantial property damage
- news media involvement or the possibility to attract media attention
- inconvenience to the public
- is a charges of Hilcorp negligence, and/or
- a need for Communications support, as determined by the Incident Commander.

Responsibility

The Communications contact:

- provides advice and counsel to the Incident Commander
- assists in determining the need for on-scene Communications support
- uses information obtained from the Incident Commander to write a holding statement (if necessary), and
- coordinates press conferences (if necessary).

E. Insurance Activation

The following describes how insurance is activated. There are three categories of insurance:

- liability
- property damage.
- Third Party bodily injury, property damage or both.

Who Handles

Hilcorp Financial Services – Risk & Insurance (HFS) is solely responsible for notifying the appropriate insurance underwriters after a significant event.

Any incident may give rise to a third party claim for bodily injury, property damage or both. If after an event has occurred claims have been filed, or for any reason a claim may arise out of an event, HFS should be contacted immediately.

When to Activate

The land agent or appropriate party should activate insurance within 48 hours of the incident. When an incident occurs, insurance activation is secondary. Primary responsibility is shutting down the pipeline, repairing the problem, and cleaning up the release.

Insurance Carrier

Hilcorp is covered by a master insurance program comprised of property and liability coverages. Under the property coverage of this program Hilcorp is subject to a self-insured retention (per event, per occurrence). The liability coverage is subject to a self-insured retention (per event, per occurrence). These retentions must be individually exhausted before any insurance claim will be considered by the appropriate underwriter.

2. External Notifications

A. Reporting

Federal Reporting Requirements	
Agency	**Immediate Telephonic Requirements**
National Response Center 2100 Second Street, S.W, Washington, DC 20593-0001	Nationwide: **800-424-8802** 202-267-2180 202-267-2675 **Discharges of Oil to Navigable Waters** For all facilities, immediately report all discharges of oil or refined petroleum product into, or likely to reach, navigable waters of the United States (including streams, lakes, rivers, and reservoirs.) Notification of the regional Coast Guard Captain of the Port is also recommended if release has affected or might affect a navigable waterway. **Discharges of Hazardous Liquids or CO_2 From Pipeline** *CFR §195.50; 195.52; 195.54; 195.402(c)(2)* *Advisory Bulletin (ADB-02-04)* For a DOT pipeline or facility, immediately report (within 2 hours of discovery) any release of a hazardous liquid or carbon dioxide that: • results in an unintentional fire or explosion • causes a death or personal injury requiring hospitalization • causes property damage, including clean up costs exceeding $50,000, or • is significant in other respects, or • is 5 gallons* or more.

National Response Center (continued)	**Maintenance Activity Exemption** Release of less than five barrels resulting from pipeline maintenance activity is not required to be reported to the NRC if the release is confined to company property or pipeline ROW and is cleaned up promptly. *However, the First Notification Form is required for internal reporting of all releases of 3 gallons or more to land, including releases to secondary containment. When notifying the NRC, please provide the most accurate release volume estimate available at the time. Prompt follow-up reports during the emergency phase of a response are required for the following significant changes: • An increase or decrease in the number of previously reported injuries or fatalities; • A revised estimate of the product release amount that is at least 10 times greater than the amount reported; • A revised estimate of the property damage that is at least 10 times greater than the reported property damage estimate. An operator should tell the NRC representative if a previous report was filed for the incident and provide the NRC Report Number of the original telephonic.

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Agency	Immediate Telephonic Requirements
EPA, Region VI *Response and Prevention Branch* First Interstate Building 1445 Ross Avenue Dallas, TX 75202	**214/665-2222 (24 hour)** **214/665-1234 (24 hr)** Response and Prevention Branch
Louisiana Department of Environmental Quality Office of Environmental Compliance - Surveillance Division SPOC	**225/219-3640 ("Single Point of Contact Line" (8am – 4pm)** **225/342-1234 (24 hour)** Within 24 hours after learning of the discharge, report to the Hotline or the DEQ "single point of contact" line unauthorized discharges (not causing an ***emergency condition***) of the following: • ***oil*** **(crude)** ≥ 14 gallons • ***oil (products)*** ≥ 42 gallons (1 barrel) • sweet pipeline gas (methane/ethane) over 1,000,000scf, or • any hazardous substance listed in 40 CFR 117.3 (CWA) or 40 CFR 302.4 (CERCLA) exceeding the listed reportable quantity.
U. S. Coast Guard Marine Safety Office 1615 Poydras, Suite 700 New Orleans, Louisiana 70160 **Response Office** 201 Old Hammond Hwy Metairie, LA 70005	**504/589-6196** **800-874-2153 (24 Hr.)** **504-846-5923/P**ollution/Marine Incident (24 Hr.)
Louisiana Department of Wildlife and Fisheries Office of Fisheries P. O. Box 98000 Baton Rouge, LA 70898	**225/765-2439 (24 hour)**

Facility Response Plan
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It is mandatory to verbally contact the following agencies immediately with the information recorded on the Spill / Gas Release Form, even if waterways are not impacted, and make follow-up written reports for alI releases within five days after a release occurs:

Agency	Immediate Telephonic Requirements
Louisiana Emergency Response Commission (LERC) State Police Hazardous Material Hotline P. 0. Box 66614, Mail Slip 21 Baton Rouge, LA 70896	**225/925-6595 (24-hour)**
Plaquemines Parish Emergency Planning Committee (LEPC) c/o Plaquemines Parish Office of IIomeland Security and Emergency Preparedness 208-C Avenue G Belle Chase, LA 70037	**504/433-8922** **504/433-8660 (Fax)**
Louisiana Emergency Hazardous Materials Hotline (State Police) http://www.deq.state.la.us/	**877-925-6595** **225-925-6595** Report to the Hazardous Materials Hotline any unauthorized discharge of any amount of ***pollutant*** that causes an ***emergency condition*** within 1 hour after learning of the discharge. No report required. A ***pollutant*** is any substance introduced into the environment of the state by any means that would tend to degrade the chemical, physical, biological, or radiological integrity of such environment. An ***emergency condition*** is any condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water, or air environment, or cause severe damage to property.

Louisiana Oil Spill Coordinator Office (LOSCO)	**225-925-6606**
Louisiana Department of Natural Resources Office of Conservation Pipeline Division Pipeline Safety Section	**225-342-5505 225-342-5585 (Business Hours)** Within two hours following discovery, report all liquid spills and natural gas releases (occurring on intrastate pipelines) which meet the Federal reporting requirements (see NRC reporting requirements). A written report (on DOT form 7000-1) must be submitted within 30 days.

If waterways are impacted, or are in danger of being impacted, a "courtesy" call should be made to the following agencies:

Agency	Courtesy Telephonic Requirement
U. S. Fish and Wildlife Service 646 Cajundome Boulevard, Suite 400 Plaquemines, LA 70506	**337/291-3100**

If waterways are impacted and the Louisiana Department of Environmental Quality was verbally notified of the spill incident, it is mandatory to submit a written notification -"Unauthorized Discharge Notification Report" - within seven calendar days after the telephone notification to:

Agency	Written Notification Requirements
Louisiana Department of Environmental Quality **Office of Environmental Compliance** Post Office Box 4312 Baton Rouge, LA 70821-4312	**225/219-4044 or 3695 (fax)**

The transmittal envelope must be clearly marked "UNAUTHORIZED DISCHARGE NOTIFICATION REPORT".

Online incident reporting is available at http://www.deq.louisiana.gov/apps/forrns/irfiforms/. Simply follow the onscreen instructions and complete the necessary fields. The onscreen user will receive a summary of the notification along with a confirmation tracking number which can be printed for a record of the notification.

The following number will be contacted should Federal assistance be required.

Federal Bureau of Investigation	
Location / 24 Hr Telephone Number	**Parishes Covered**
2901 Leon C. Simon Dr. **New Orleans**, Louisiana 70126	**504-816-3000** All Louisiana parishes

Section 10. Site Safety Plan

In This Section

1. Site Safety Plan

SITE SAFETY PLAN

I. General

☐Road Spill ☐Water Spill ☐Hazmat Spill ☐Excavation ☐Other: _____

Facility: _____

Location: _____

Work to be performed: _____

Associated Permits & Job No.

#_____

Issuing Date: _____ Time: _____

Temperature: ___° Wind Direction: ___

Humidity: _____

II. Hazards to be Evaluated

Y	N		Y	N	
☐	☐	Oxygen Deficient/Enriched	☐	☐	Chemical/MSDS # _____
☐	☐	Flammable Atmosphere	☐	☐	Physical Hazard _____
☐	☐	Toxic Atmosphere: _____	☐	☐	Traffic _____
☐	☐	Boat Operations	☐	☐	Other* (see comments) _____

III. Control Measures

Isolation & Lockout (Identify items to be locked out): _____

Decon: _____

Ventilation: ☐Natural ☐ Mechanical: _____ Continuous: ☐ No ☐ Yes

Flagman/Watchman: _____

IV. Testing & Monitoring (Check required items)

Tests are to be performed in the order listed.

Y	N		Continuous		Frequency
☐	☐	Oxygen Level	☐Y	☐N	___ every ___
☐	☐	LEL	☐Y	☐N	___ every ___
☐	☐	Hydrogen Sulfide	☐Y	☐N	___ every ___
☐	☐	Benzene	☐Y	☐N	___ every ___
☐	☐	VOC: _____	☐Y	☐N	___ every ___
☐	☐	Other: _____	☐Y	☐N	___ every ___

ACCEPTABLE ENTRY CONDITIONS

	SPECIAL WORK PRACTICES OR PPE REQUIRED	WORK EFFORTS SHOULD BE DIRECTED AT REDUCING CONCENTRATIONS
19.5 – 22.0% in air*	< 19.5% or 22.0% in air*	<16.0 or ≥ 23.5% in air
< 10% in air	≥ 10.0 but < 20.0% in air†	≥ 20.0% in air
< 10 ppm	≥ 10 but < 100 ppm	≥ 100 ppm
< 1 ppm	≥ 1 but < 3000 ppm	≥ 3000 ppm

As allowed by applicable standard(s) *Acceptable for 5325 feet of elevation and below.
†Hot work is not permitted when LEL is greater than 10% in air.

V. Required Personal Protective Equipment (Check for required use)

General	Eye Prot.	Respiratory Prot.	Hearing Prot.	Gloves	Footwear	Clothing
☐ Hard Hat	☐ Safety Glasses	☐ SCBA/Air Line w/Escape	☐ Ear Plugs	☐ Leather	☐ Steel-toes	☐ FR Coveralls
☐ Safety Harness	☐ Goggles	☐ Air Line	☐ Ear Muffs	☐ Rubber	☐ Rubber	☐ Tyvek
☐ PFD	☐ Face-shield	☐ Air Purifying (Full Mask)	☐ Combination	☐ Nitrile	☐ Hip-boots	☐ Coated Tyvek
	☐ Tinted Lens	Cartridge Type: ☐ OV ☐ Hepa-OVV		☐ PVC	☐ _____	☐ Saranyx
				☐ _____		☐ _____

Any other special PPE: _____

VI. Emergency Information and Rescue Services

Emergency Contact Person: _____ Contact by: _____

Fire Department: _____ Contact by: _____

Ambulance: _____ Contact by: _____

Hospital: _____ Contact by: _____

Rescue Services: _____ Contact by: _____

(if not provided by above)

VII. Required Safety & Rescue Equipment (on site)

☐Lights ☐ Fall Protection ☐ First Aid Kit ☐ Drinking Water ☐ Fire Extinguisher ☐ Tripod ☐ Other: _____

☐Ladder ☐ Retrieval Lines ☐ Resuscitator ☐ Communication Method _____

VIII. Comments or Special Work Procedures

_____

_____

_____

_____

IX. Report All Injuries Immediately

X. Monitoring Results

	Zone													
Oxygen	Time													
	Level													
	By													
LEL	Time													
	Level													
	By													
Hydrogen Sulfide	Time													
	Level													
	By													
Benzene	Time													
	Level													
	By													
VOC	Time													
	Level													
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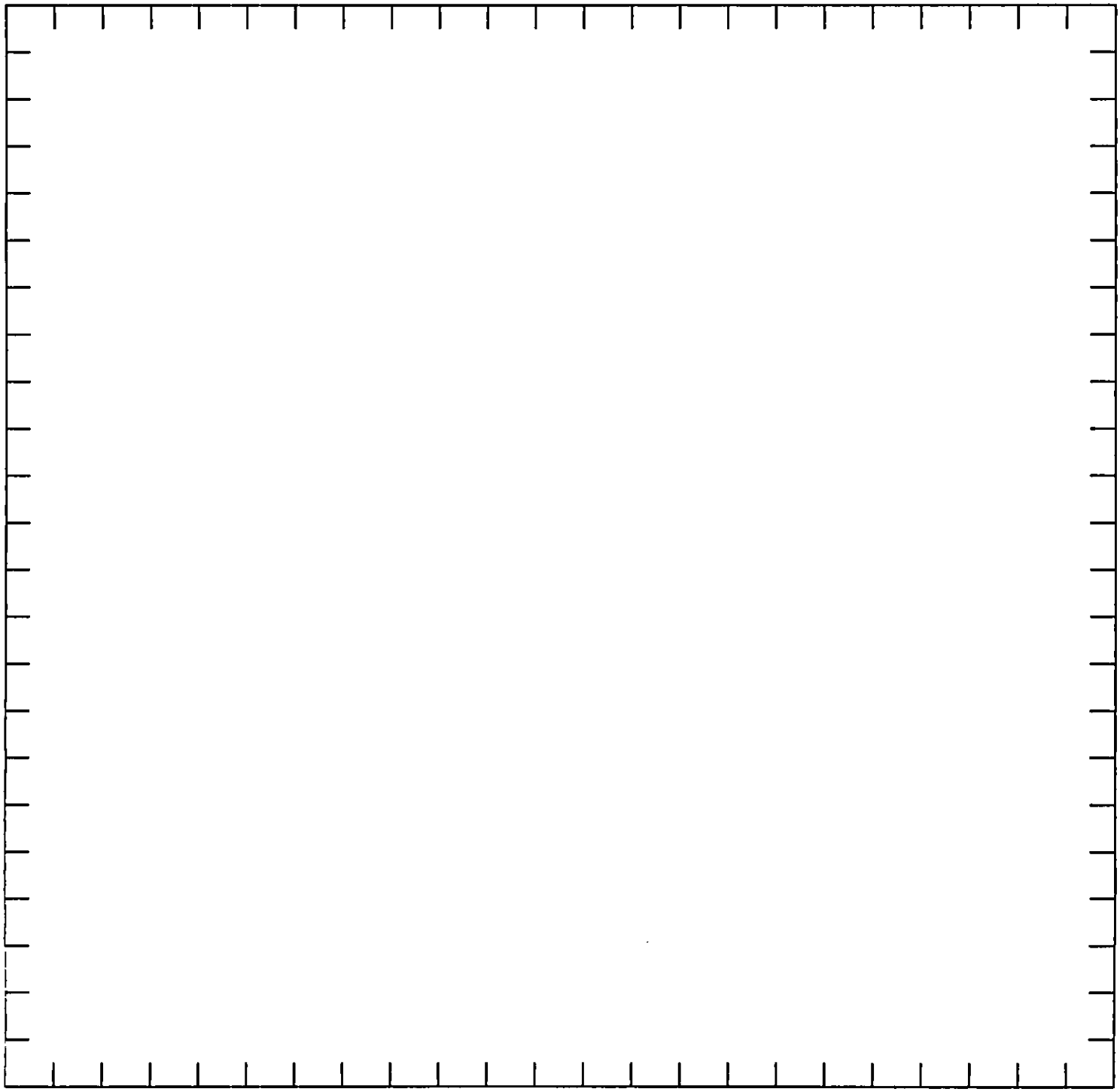
	By													

Equipment: Type: _____ Mfger: _____ Calibration / Expiration: _____
Type: _____ Mfger: _____ Calibration / Expiration: _____

XI. Work Area Diagram

Please include wind direction, exclusion zone, support zone, decon area and significant landmarks.



XII. Crew Signatures

Print Name	Signature	Print Name	Signature

XIII. Authorizing Signature

Site Manager: **Printed Name:** _____ **Signature:** _____

I hereby acknowledge and authorize the above work to be performed in accordance with the conditions outlined on this permit. If the work procedures or conditions change creating any unsafe conditions, then this permit is void and work is to be suspended. I understand and affirm that the conditions of this work permit will be followed prior to and during entry into a confined space. I also agree to order the work to be stopped and the confined space evacuated in the event that conditions of the permitted work area fail to meet the permit requirements.

CFR §194.107(c)(1)(v); 194.115

Section 11. Resources

In This Section

1. Company Equipment

One thousand feet of containment boom is stored at the Southwest Pass 24 Terminal. Bundles of adsorbent pads are maintained on the facility. This equipment is available for deployment within **one hour** upon the detection of a spill. The operator would utilize his boat to deploy the boom in order to localize the spill. The operator would then apply adsorbent material. Additional spill containment equipment would be provided by the oil spill removal organizations (OSRO) under contract with Hilcorp. These companies are available to respond within **two hours** upon the detection of a spill and are listed below.

The response resources identified in this Section are available to respond, after discovery of a worst case discharge, or to mitigate the substantial threat of such a discharge, including providing planned temporary storage and waste disposal activities and planned protection activities within the times specified below:

	Tier 1	Tier 2	Tier 3
All other areas…….	12 hrs.	36 hrs.	60 hrs.

2. Communications

Hilcorp relies on multiple forms of communications to respond to a release or WCD. Hilcorp employs office and cell telephone as primary communications in the field. Hilcorp also employs text messaging (all company employees), blackberries (all corporate personnel) and 2-way radios as primary backup.

In addition to the primary backup, Hilcorp carries satellite phones. The SMT has 3 satellite phones and this backup would be on hand to respond to a release or WCD.

The Hilcorp SMT also utilizes a service called Safety Net. This service allows any member of the team to send a single email to a specified address. This email in turn simultaneously notifies all communications devices of SMT personnel.

3. OSRO's

A. USCG Certified Oil Spill Removal Organizations (OSRO)

OSRO PREP documentation and OSRO contracts are maintained in Live Link http://sww-knowledge-amr.Hilcorp.com/knowamr/livelink.exe and at the Houston, TX office. Mobilization and deployment of the USCG certified OSRO response equipment and trained response personnel can be deployed within the appropriate Tier Time Requirements and OPA 90 guidelines (Section 12).

USCG Certified OSROs		
Company	**Captain of the Port Zone** *Coast Guard Classification*	**Phone Number**
Oil Mop LLC **0012** 131 Keating Drive Belle Chase, LA 70037 *Contract Number ERA-0013-GCL00*	**Houston-Galveston** *Rivers/Canals—Class MM-W1-W2-W3* *Inland—Class MM-W1-W2-W3* **Morgan City** *Rivers/Canals—Class MM-W1-W2-W3* *Inland—Class MM-W1-W2-W3* **New Orleans** *Rivers/Canals—Class MM-W1-W2-W3* *Inland—Class MM-W1-W2-W3*	504-394-6110 **800-645-6671** (24-hour number for all locations) Field Office Locations: Morgan City 9625 Hwy 182 Morgan City, LA 70381 985-631-9664 Houston 2308 W. Fairmount Parkway La Porte, TX 281-470-2016

USCG Certified OSROs		
Company	**Captain of the Port Zone** *Coast Guard Classification*	**Phone Number**
	Port Arthur *Rivers/Canals—Class MM-W1-W2-W3* *Inland—Class MM-W1-W2-W3*	Port Arthur 8725 Industrial Circle Port Arthur, TX 77642 409-962-7226
United States Environmental Services 0038 2809 E. Judge Perez Drive Meraux, LA 70075	**Morgan City** *Rivers/Canals—Class MM-W1-W2-W3* *Inland—Class MM-W1-W2* **New Orleans** *Rivers/Canals—Class MM-W1-W2-W3* *Inland—Class MM-W1-W2*	**888-279-9930** (24-hour response # for all locations) Field Office Location: New Orleans 365 Canal St., Suite 2500 New Orleans, LA 70130 504-527-5441
EH&S Consulting and Training Group 0050 1730 Couteau Road Houma, LA 70364	**Morgan City** *Rivers/Canals—Class MM-W1-W2-W3* *Inland—Class MM-W1-W2,W3*	**877-437-2634** Field Office Location: Houma 1730 Couteau Road Houma, LA 70364
American Pollution Control Corporation (Ampol) 0102 5619 Port Rd New Iberia, LA 70560	**Morgan City** *Rivers/Canals—Class MM* *Inland—Class MM-W1* **New Orleans** *Rivers/Canals—Class MM* *Inland—Class MM-W1*	**800-482-6765** 337-365-7847 337-365-8890 (fax) Field Office Location: New Iberia 5619 Port Rd New Iberia, LA 70560

4. Waste & Disposal

A list of Hilcorp-approved waste contractors may be obtained by calling **EH&S**.

ALL WASTE DISPOSAL MUST BE HANDLED THROUGH THIS DEPARTMENT.

5. Wildlife Rehabilitation

Certified Organizations

Wildlife Rehabilitation Organizations		
City	**Company/Address**	**Telephone**
Houston, TX	**Wildlife Rehabilitation and Education**	281-332-8319 713-279-1417 Pager 281-731-8826 Cell
Newark, DE	**Tri-State Bird Rescue and Research**	302-737-7241
Houston	**U.S. Fish and Wildlife Service**	800-344-9453 281-286-8282

Contact State Wildlife Agency

The U.S. Fish and Wildlife Service (USFWS) AND Louisiana Department of Wildlife and Fisheries (LDWF) must license all wildlife rehabilitation organizations in the state of Louisiana. USFWS and LDWF are in charge of wildlife recovery and rehabilitation efforts and will serve as the Wildlife Recovery Branch Director in the Operation Sections of the ICS. Personnel utilized in rehabilitation must:

- Be authorized by the Wild Branch Director
- Have safety training, and
- Be LDWF and USFWS staff, or Licensed or permitted by TPWD and USFWS.

LDWF and USFWS staff are:

- *the **only** personnel permitted to collect oiled wildlife.*
- *to be notified when it is known or suspected that wildlife have been impacted or may be impacted by an incident, and*
- *to be notified about the activation of rehabilitation resources.*

6. Contractors & Supplier

Boat and Barge Contractors

To contract services, coordinate with EH&S (713-209-2400).

Communication Services

To contract services, coordinate with Michael Schoch at (713) 816-6350 (cell) or (713)-209-2400 (office)

Crane Contractors

To contract services, coordinate with Rob Kennedy, Area Supervisor (225-933-6944).

Diving Contractors

To contract services, coordinate with Rob Kennedy, Area Supervisor (225-933-6944).

Fire-Fighting

Louisiana

Fire-Fighting Contractors—Louisiana		
City	**Company/Address**	**Telephone**
	To contract fire-fighting services, coordinate with the EH&S (713-209-2400).	

Texas

Fire-Fighting Contractors—Texas		
City	**Company/Address**	**Telephone**
Mauriceville	**Williams Fire & Hazard Control, Inc.**	409-727-2347 800-231-4613

General Contractors

To contract services, coordinate with Rob Kennedy, Area Supervisor (225-933-6944).

Laboratories

If additional assistance is needed to contract services, coordinate* with *Rob Kennedy, Area Supervisor (225-933-6944).

Louisiana

Laboratories—Louisiana		
City	**Company/Address**	**Telephone**
Scott	**Southern Petroleum Labs (SPL)**	800-304-5227 337-237-4775
Baton Rouge	**TEST America**	225-755-8200

Nitrogen Truck Services

To contract services, coordinate with with Rob Kennedy, Area Supervisor (225-933-6944).

Rental Companies

To contract services, coordinate with Rob Kennedy, Area Supervisor (225-933-6944).

Security Services

To contract services, coordinate with Rob Kennedy, Area Supervisor (225-933-6944).

Louisiana

Security Services—Louisiana		
City	**Company/Address**	**Telephone**
New Orleans	**ABM Security Services**	504-412-9030

Vacuum and Transport Trucks

Louisiana

To contract services, coordinate with Rob Kennedy, Area Supervisor (225-933-6944).

Waste and Disposal

To contract services, coordinate with EH&S (713-209-2400).

Wildlife Treatment Organizations

Wildlife Treatment Organizations are listed under the Wildlife Rehabilitation Section of this document.

Contact State Wildlife Agency

Section 12. Response Planning & Resources

In This Section

1. Worst Case Discharge

CFR §194.105

A. Volume

(b) (7)(F) [redacted]

B. Location of Worst Case Discharge

Pipeline System

Breakout Tank inside the facility.

Line Section or Mile Post

(b) (7)(F) [redacted]

Parish/State

Plaquemine Parish

C. Type of Oil

Crude oil (see Appendix C for MSDS)

D. Weather Conditions

The worst case discharge calculation considers the following adverse conditions:

- light rain, and
- 10 to 15 mph wind.

E. Selection Criteria

The worst case discharge location was chosen because the release:

- occurs in an environmentally sensitive area
- involves a large volume release due to the size of the storage tanks, and
- occurs during adverse weather conditions (rainy and windy).

F. Calculation

(b) (7)(F) for single breakout tank.

Under 194.105(4) operators may claim prevention credits for breakout tank secondary containment and other specific spill prevention measures as follows:

Prevention measure	Standard	Credit (percent)
Secondary containment > 100%	NFPA 30	50*
Built/repaired to API standards	API STD 620/650/653	10*
Overfill protection standards	API RP 2350	5*
Testing/cathodic protection	API STD 650/651/653	5*
Tertiary containment/drainage/treatment	NFPA 30	5
Maximum allowable credit		70*

*CREDIT: = 70%.

(b) (7)(F)

2. Leak and Spill Detection and Prevention

CFR §194.107(a), (c)(1)(ii)

Daily tank and pipeline inspections as outlined in the Hilcorp Operations Manual are conducted to identify pollution and in the event pollution is spotted, the Field Operator will identify and shut off the source and make immediate notifications. These inspections are sufficient to detect leaks of oil within a reasonable time. The EPA SPCC inspection procedures also serve as a spill preventitive measure.

Abnormal operating conditions are unexpected, unintentional, non-emergency events that cause a pipeline system's normal operating limits to be exceeded. Abnormal operating conditions may be detected in the early stages of a pipeline emergency. Each abnormal condition is handled in accordance with the procedures described in the Hilcorp Operations Manual that are use for detecting and preventing leaks and spills at the terminal.

Mailing Address

1804 Tidewater Rd

Venice, LA 70091

Office Phone (504) 534-7517

Office Fax (504) 534-4090

All phone numbers below are cell phones.

Rob Kennedy rkennedy@hilcorp.com; (225) 933-6944

Leon Raffield lraffield@hilcorp.com; (985) 722-7567

Greg Benny gbenny@hilcorp.com; (504) 534-7517

Gary Johnston gjohnston@hilcorp.com,; (225) 276-9507

3. Mitigation Tactics for Worst Case Discharge & Other Areas

CFR §194.107(c)(1)(v), (b)(2)(i)

Tactical plans have been developed for the worst case discharge for the following locations and are included in the subsequent tabs.

- Southwest Pass Oil Terminal – Mississippi River

The tactical plans set forth the response strategy including site descriptions and characteristics, resources and personnel needed, tactical objectives, and assignment lists and follow applicable Area Contingency Plans.

4. Environmental Sensitivities: Plaquemines Parish

Plaquemines Parish includes Barataria Bay, the Mississippi River Delta, Breton Sound and the affiliated islands and bays. This region is an extremely sensitive habitat and serves as a migratory, breeding, feeding and nursery habitat for numerous species of wildlife. Beaches in this area vary in grain particle size and can be classified as either fine sand, shell or perched shell beaches. Sandy and muddy tidal flats are also abundant.

Environmental sensitivities are presented in following table and on maps and tables in Section 13.

ENVIRONMENTAL SENSITIVITIES FOR PLAQUEMINES PARISH, LA

Sensitive Areas	Descriptions	Access	Wildlife	Contact
PASS-A- LOUTRE WILDLIFE MANAGEMENT AREA	66,000 acres characterized by river channels with attendant pass banks, natural bayous and man-made canals which are interspersed with intermediate and fresh marshes. Furbearers and alligators are fairly common in the marsh. Freshwater finfish flourish in the interior marsh ponds.	By boat only, however, the tributaries along the Mississippi River provide excellent traveling passages. The nearest public launches are in Venice.	RTE: Brown pelican, American alligator Others: Waterfowl (winter), peregrine falcon, sea birds, shore birds, bass, bream, cattish, crappie, drum, watermouth, garfish, redfish, speckled trout, flounder, nutria, mink, otter, muskrat, raccoon, white-tailed deer	Pass-a-Loutre WMA LA Dept. of Wildlife and Fish 400 Royal St. New Orleans, LA 70130 (504) 568-5885 (504) 568-5886
DELTA WILDLIFE MANAGEMENT AREA	48,800 acres of marsh, shallow ponds, channels and bayous. Provides a winter sanctuary for migratory waterfowl such as snow geese and more than 18 species of ducks. Also the home of many other water birds and various wildlife species.	By boat only.	RTE: Brown pelican, American alligator Others: Waterfowl (winter), peregrine falcon, sea birds, shore birds, bass, bream, catfish, crappie, drum, garfish, redfish, speckled trout, flounder, nutria, mink, otter, muskrat, raccoon, white-tailed deer.	Delta WMA Box 925 Venice, LA 70091 (504) 646-7555 (504) 646-7588 (fax)
FINE SAND BEACHES	Beaches with low slopes and a grain-size of 0.625 to 0.200 mm. Low percentage of shells and hash. Major fine sand beaches on the delta plain are found at Southwest Pass, Pelican Island and Chandeleur Island.	By boat only.	N/A	
SHELL BEACHES	Shoreline types comprised of almost entirely of shell. Shell material may be in the form of shell hash or whole shells. Shell beaches form extremely steep beach faces. Major shell beaches on the delta plain are found at Point Au Fer, Shell Island and Monkey Bayou.	By boat only.	N/A	

Sensitive Areas	Descriptions	Access	Wildlife	Contact
PERCHED SHELLBEACHES	Shoreline type where a thin shell beach overlies a fresh or salt marsh with an eroded marsh platform outcropping in the surf zone. Organic debris is common to this shoreline type. Where the marsh platform outcrops on the shoreline, it can become re-vegetated by marsh grass. Major perched shell beaches on the delta plain are found at Cheniere Rocquille and Sandy Point.	By boat only.	N/A	
6) SANDY TIDAL FLATS	Shoreline types comprised of broad intertidal areas consisting of fine and coarse grain sand and minor amounts of shell hash. Mean grain size is between 0.0625 and 0.4 mm. Typically found in association with barrier island and tidal inlet systems. This type of flat is submerged during each tidal cycle and at low tide may be 100-200 m wide. Slight changes in water levels can produce significant shoreline changes. Low water levels can expose extensive tidal fiat areas to oiling. Major sandy tidal fiats on the delta plain are found at Barataria Bay and the Mississippi River mouth.	By boat only.	N/A	
MUDDY TIDAL FLATS	Shoreline types comprised of broad intertidal areas consisting of mud and minor amounts of shell hash. The grain-size is smaller than 0.0625 mm. Muddy tidal fiats are typically found in association with prograding river mouths. Major muddy tidal flats on the delta plain are found at the Mississippi and Atchafalaya River mouths.	By boat only.	N/A	

5. Areas of Socio-Economic Concern

- Container vessels traverse the MRGO to offload product at Inner Harbor Navigation Canal area
- Bohemia Wildlife Management Area
- Commercial fishing routes
- South Pass
- Tiger Pass
- Barataria Waterway

A. Protection Priorities

- Pass-A-Loutre Wildlife Management Area
- Delta National Wildlife Refuge
- Bohemia Wildlife Management Area
- Other coastal marshes

Effective containment or removal of oil threatening these areas must be accomplished near the source of the discharge. Factors of time and distance may cause oil to approach sensitive areas. Should oil approach particularly sensitive areas, selective booming will be attempted to prevent oil entering threatened locations.

CFR § 194.107(b)(2)(ii)

Section 13. Highly Sensitive Areas

In This Section

1. Maps
   - Louisiana Environmental Sensitivity Index Map
   - Overview Map Showing the GOM Region Louisiana Response Zone
   - Environmental Overview Map & Aerial Photo of SWP 24 Terminal with Command Post and Staging Area
2. List Of Plaquemines Parish Federal Endangered Species

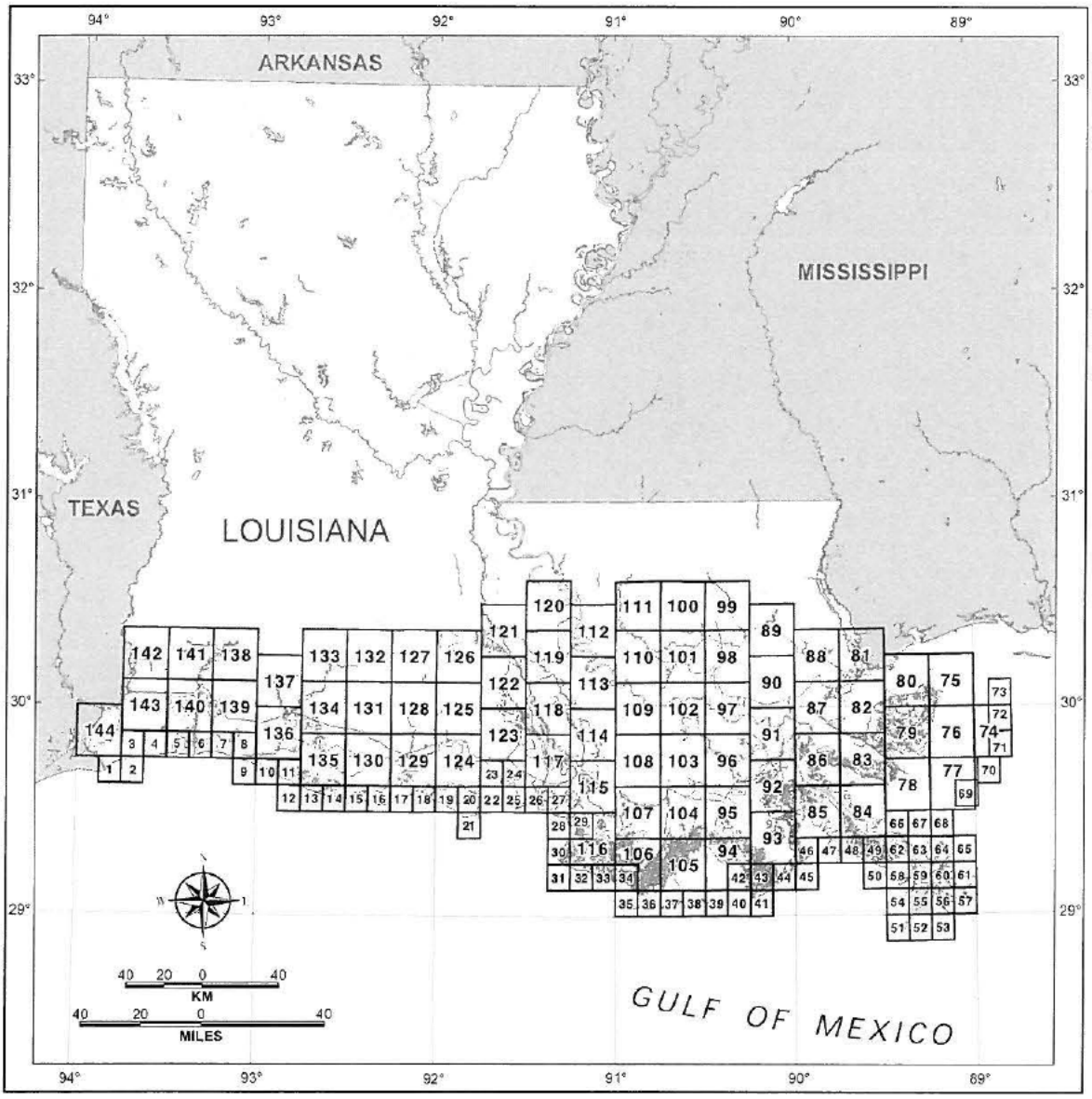
Facility Response Plan
Volume II_ Section 13_Highly Sensitive Areas

Revised 09-28-2010

1. **Maps**
2. **List Of Plaquemines Parish Federal Endangered Species**

Sensitivity of Coastal Environments and Wildlife to Spilled Oil

LOUISIANA



Supported by:

National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division
Seattle, Washington

In Cooperation with:

Minerals Management Service (MMS)
New Orleans, Louisiana

U.S. Fish and Wildlife Service (USFWS)
Lafayette, Louisiana

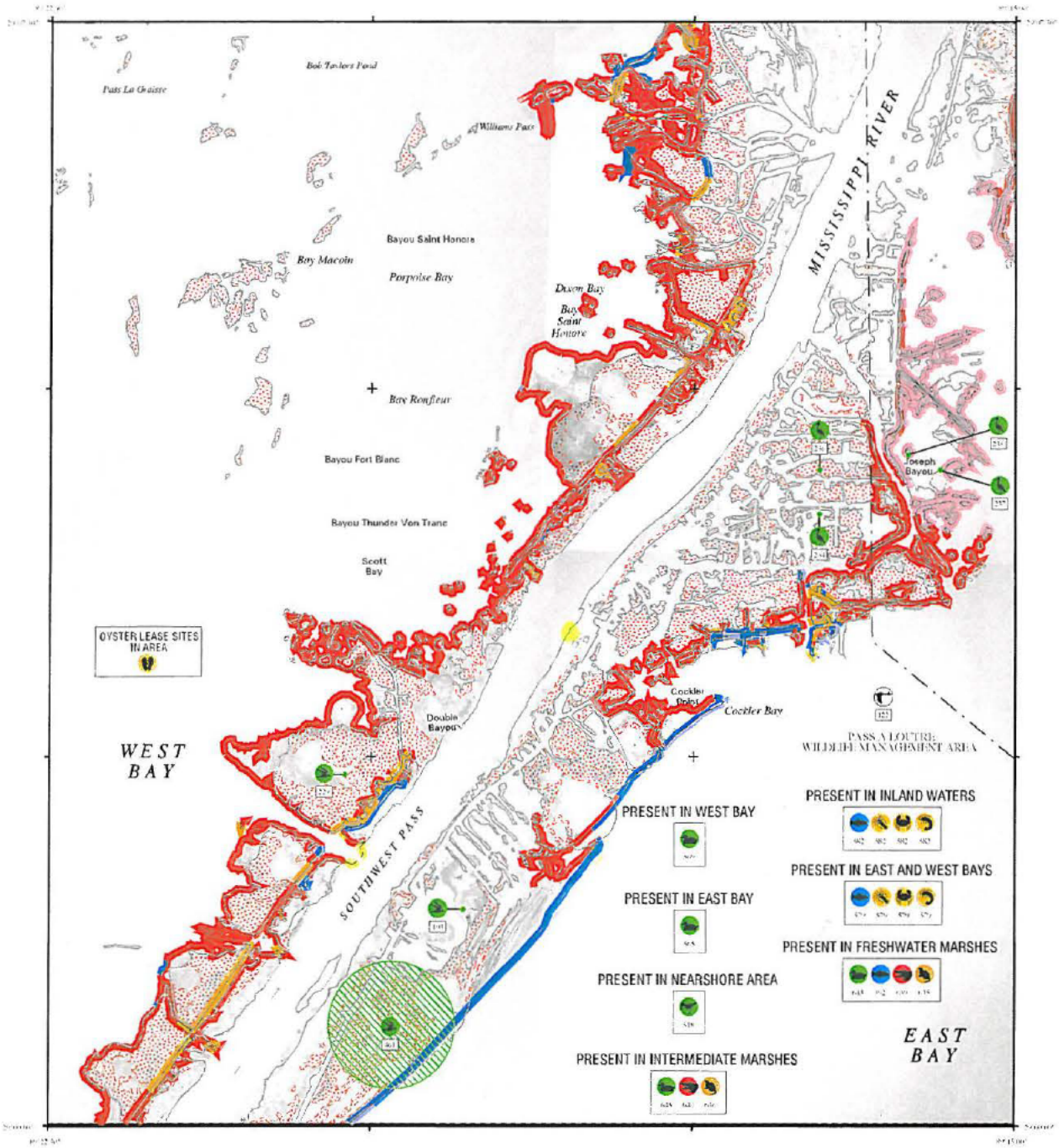
The Louisiana Oil Spill Coordinator's Office (LOSCO)
Baton Rouge, Louisiana

Louisiana Department of Wildlife and Fisheries (LDWF)
Baton Rouge, Louisiana

Louisiana Department of Natural Resources (LDNR)
Baton Rouge, Louisiana

DEC 2003

ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE

1998 SHORELINE

2001 SHORELINE

NOTE FOR COASTAL MAPS:

Due to the dynamic nature of the Louisiana coastline, biological resources may represent historical locations that do not correspond with the depicted shoreline.

SHORELINE HABITATS (ESI)

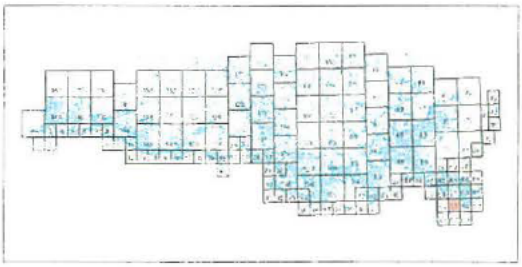
2001 ESI Shoreline Classification

1B EXPOSED, SOLID MAN-MADE STRUCTURES
2A EXPOSED WAVE-CUT PLATFORMS IN CLAY
2B EXPOSED SCARPS AND STEEP SLOPES IN CLAY
3A MIXED SAND AND GRAVEL BEACHES
3B SCARPS AND STEEP SLOPES IN SAND
4 COARSE-GRAINED SAND BEACHES
5 MIXED SAND AND GRAVEL BEACHES
6A GRAVEL BEACHES
6B RIPRAP
7 EXPOSED TIDAL FLATS
8A SHELTERED ROCKY SHORES AND SHELTERED SCARPS IN MUD OR CLAY
8B SHELTERED, MAN-MADE STRUCTURES
8C SHELTERED RIPRAP
8A SHELTERED TIDAL FLATS
9B SHELTERED, VEGETATED LOW BANKS
10A SALT AND BRACKISH WATER MARSHES
10B FRESHWATER MARSHES
10C FRESHWATER SWAMPS
10D SCRUB-SHRUB WETLANDS

COASTAL HABITATS

Based on 1988 Digital Shoreline

10A SALT MARSH
10A BRACKISH MARSH
10A INTERMEDIATE MARSH
10B FRESHWATER MARSH
10C FORESTED WETLAND
10D SCRUB-SHRUB WETLAND
SEAGRASS



SCALE 1:50000

KILOMETERS

STATUTE MILES

December 2003

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National Oceanic and Atmospheric Administration

National Ocean Service

Office of Response and Restoration

Hazardous Materials Response Division

Not For Navigation

DIXON BAY LA-55

Louisiana ESI: ESIMAP 55

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
[illegible]	Black skimmer			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
[illegible]	Black skimmer			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
	[illegible]			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
[illegible]	Great egret			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	FEB-[illegible]	-	-
	Snowy egret			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAR-[illegible]	-	-
[illegible]	Great egret			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	FEB-[illegible]	-	-
	Snowy egret			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAR-[illegible]	-	-
[illegible]	Tricolored heron			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	APR-[illegible]	-	-
	Great egret			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	FEB-[illegible]	-	-
	Little blue heron			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAR-[illegible]	-	-
	Snowy egret			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAR-[illegible]	-	-
	White ibis			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	APR-[illegible]	-	-
[illegible]	Great egret			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	FEB-[illegible]	-	-
	Snowy egret			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAR-[illegible]	-	-
	Tricolored heron			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAR-[illegible]	-	-
	White ibis			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	APR-[illegible]	-	-
	White-faced ibis / Glossy ibis			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	APR-[illegible]	-	-
[illegible]	Colonial waterbirds				X	X	X	X	X	X	X	X	X	X	X	X	MAY-[illegible]	-	-
	Dark seabird				X	X	X	X	X	X	X	X	X	X	X	X	[illegible]	-	-
[illegible]	Shorebirds						X	X	X	X	X	X	X				-	-	-
[illegible]	Wading birds				X	X	X							X	X	X	-	-	-
[illegible]	Wading birds				X	X	X							X	X	X	-	-	-
[illegible]	American coot			[illegible]	X	X	X							X	X	X	-	-	-
	American coot			[illegible]	X	X	X							X	X	X	-	-	-
	American widgeon			[illegible]	X	X	X	X	X					X	X	X	-	-	-
	Blue-winged teal			[illegible]	X	X	X	X	X	X			X	X	X	X	-	-	-
	Canvasback			[illegible]	X	X	X	X						X	X	X	-	-	-
	Gadwall			[illegible]	X	X	X	X						X	X	X	-	-	-
	Green-winged teal			[illegible]	X	X	X	X					X	X	X	X	-	-	-
	Redhead waterfowl			[illegible]	X	X	X							X	X	X	-	-	-
	Wading birds			[illegible]	X	X	X							X	X	X	-	-	-
	Mallard			[illegible]	X	X	X							X	X	X	-	-	-
	Mottled duck			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAR-[illegible]	-	-
	Northern pintail			[illegible]	X	X	X						X	X	X	X	-	-	-
	Northern shoveler			[illegible]	X	X	X	X					X	X	X	X	-	-	-
	Ring-necked duck			[illegible]	X	X	X							X	X	X	-	-	-

FISH:

RAR#	Species	S	F	Conc	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
[illegible]	Longsnout bass			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	MAR-[illegible]	[illegible]	[illegible]	[illegible]	-
[illegible]	Atlantic croaker				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	-
	Bay anchovy				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-
	Black drum				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	-
	Clearnose skate				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Crevalle jack				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Croaker [illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAR-[illegible]	MAR-[illegible]	MAR-[illegible]	[illegible]	-
	Gulf menhaden				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Red drum				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	-
	Sand seatrout		4		[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	4	4	4	[illegible]	[illegible]	-	-	-	[illegible]	-
	Sheepshead				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Silver perch		4		[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Southern flounder				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Spanish mackerel				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	-
	Spot				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Spotted seatrout				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Striped mullet		4		4	4	[illegible]	4	4	4	4	4	4	[illegible]	4	-	-	-	-	[illegible]	-
	Tarpon				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
[illegible]	Atlantic croaker				[illegible]	[illegible]	4	4	[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	-
	Bay anchovy				[illegible]	4	4	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAR-[illegible]	[illegible]	[illegible]	[illegible]	-
	Black drum				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	-
	Clearnose skate				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Crevalle jack				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Croaker [illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAR-[illegible]	MAR-[illegible]	MAR-[illegible]	[illegible]	-
	Gulf menhaden				4	4	4	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	-	-	-	[illegible]	-
	Gulf sturgeon		1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Red drum				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Sand seatrout		4		[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	4	4	4	[illegible]	[illegible]	-	-	-	[illegible]	-
	Sheepshead				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Silver perch				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Southern flounder				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Spanish mackerel				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Spot		4		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Spotted seatrout				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Striped mullet		4		4	4	[illegible]	4	4	4	4	4	4	[illegible]	4	-	-	-	-	[illegible]	-
	Tarpon				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-

INVERTEBRATE:

RAR#	Species	S	F	Conc	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
[illegible]	Bay squid				-	-	-	-	-	-	-	-	-	-	-	-	MAR-[illegible]	MAR-[illegible]	MAR-[illegible]	[illegible]	-
	Blue crab				4	4	4	4	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	4	-	[illegible]	[illegible]	[illegible]	-
	Brown shrimp				[illegible]	4	4	[illegible]	[illegible]	4	4	4	4	[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	-
	Gulf stone crab				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	[illegible]	-
	Pink shrimp				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]	[illegible]	-
	White shrimp		4		[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	4	4	4	[illegible]	[illegible]	-	-	MAY-[illegible]	[illegible]	-
[illegible]	Bay squid				-	-	-	-	-	-	-	-	-	-	-	-	-	-	MAY-[illegible]	MAY-[illegible]	-
	Blue crab				[illegible]	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	MAY-[illegible]	MAY-[illegible]	MAY-[illegible]	-
	Brown shrimp				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	MAY-[illegible]	[illegible]	-
	Gulf stone crab				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	MAY-[illegible]	-
	Pink shrimp				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	MAY-[illegible]	[illegible]	-
	White shrimp				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-	MAY-[illegible]	[illegible]	-

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to remember when considering potential impacts to protected species.

Louisiana ESI: ESIMAP 55 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting	Juveniles	Adults
[illegible]	[illegible]	[illegible]		[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	[illegible]	[illegible]	-	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	X	X	X	X	X	X	X	X	X	X	X	X	[illegible]	[illegible]	-	[illegible]	[illegible]

TERRESTRIAL MAMMAL:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
[illegible]	[illegible]	[illegible]		[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
	Mink			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
	Northern river otter			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
	Nutria			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
[illegible]	[illegible]	[illegible]		[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
	Mink			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
	Northern river otter			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X
	Nutria			[illegible]	X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

WILDLIFE REFUGE:

HUN#	Name	Owner	Contact	Phone
[illegible]	[illegible]	[illegible]	[illegible]	

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

PHMSA 000037303

94°0'0"W 93°0'0"W 92°0'0"W 91°0'0"W 90°0'0"W 89°0'0"W

32°0'0"N
31°0'0"N
30°0'0"N
29°0'0"N
28°0'0"N

Texas
Louisiana
Mississippi
New Orleans

N

Hilcorp Energy Company

HARVEST PIPELINE

Overview Map
Gulf of Mexico Region - Louisiana Response Zone

LEGEND

- Population over 250,000 people
- Response Sites
- States
- Gulf of Mexico Region - Louisiana Response Zone

RCP

1:2,000,000

0 5 10 20 30 40 50 Miles

Drawn By: MLH

Date: 8/04/2010

P:\3450 Harvest Pipeline ICP\GIS\MAPS\Overview Map Gulf of Mexico Region - Louisiana Response Zone.mxd

(b) (7)(F)

Federal Endangered Species

County	State	Name of Species	Species Description	Habitat	Comments
Ouachita	LA	Bachman's Warbler	Total length being 4 to 4 and one-half inches. The male is olive green above, face and underparts yellow, throat patch and crown patch black. The female lacks the black throat; the upper parts are olive green, the forehead and underparts yellow, and the crown grayish.	Nested in low wet forested areas containing variable amounts of water. When not on or near their nests, which were located near the ground, the birds were more often observed high in the tree tops, especially during migration.	Nesting has been recorded from late March to early June, with clutch size usually being three or four eggs, but occasionally five. The birds begin migrating southward during July and apparantly pass through Key West by early September.
Pittsburg	LA	Red-Cockaded Woodpecker	The red-cockaded woodpecker 18 to 20 centimeters long with a wing span of 35 to 38 centimeters. There are black and white horizontal stripes on its back, and its cheeks and underparts are white. Its flanks are black streaked. The cap and stripe onthe side of the neck and the throat are black. The male has a small red spot on each side of the black cap.	Open stands of pines with a minimum age of 60 years provide roosting and nesting requirements. Cavity excavation for roosting almost always occurs in living pines, and usually in those which are infected with a fungus producing what is known as red-heart disease.	This bird's range is closely tied to the distribution of southern pines.
Plaquemanes	LA	Red-Cockaded Woodpecker	The red-cockaded woodpecker 18 to 20 centimeters long with a wing span of 35 to 38 centimeters. There are black and white horizontal stripes on its back, and its cheeks and underparts are white. Its flanks are black streaked. The cap and stripe onthe side of the neck and the throat are black. The male has a small red spot on each side of the black cap.	Open stands of pines with a minimum age of 60 years provide roosting and nesting requirements. Cavity excavation for roosting almost always occurs in living pines, and usually in those which are infected with a fungus producing what is known as red-heart disease.	This bird's range is closely tied to the distribution of southern pines.
Plaquemines	LA	Eskimo Curlew	Medium-sized	The birds nested in the	Nesting from late May to about

County	State	Name of Species	Species Description	Habitat	Comments
			shorebird, with the slightly curved bill only about 2 inches long. The curlew has a black head, and its feathers have warm buffy brown tips. The underparts are a warm buffy color, and the under surface of the wings are conspicuously cinnamon buff.	treeless Arctic tundra, and fed in open natural grassland and tundra, burned prairies, meadows, pastures, plowed lands and intertidal zones during migration and winter months.	mid-June. End of July the breeding season is over and the adults are heading south, followed by the young. Spring migration began in late February with the birds moving through northern middle America and the Gulf of Mexico to the coasts of Texas and Louisiana, arriving there in early March.
Plaquemines	LA	Ivory-Billed Woodpecker	It has a white bill, large patches of white on the wings, and white lines on either side of the neck. The males have a red-colored crest, the females a black-colored crest. The ivory-bill's flight is level.	Requires extensive mature stands of lowland hardwood forest without disturbance from cutting. An area of 2 and one-half to 3 square miles is estimated to be the minimum habitat requirement per pair of birds.	Ivory-bills presumably mate for life and normally travel in pairs. Breeding occur during the period of January to May. Nest cavity is excavated in a dead or partially dead tree, 25 to 70 feet from the ground. The clutch size ranges from three to four eggs. Incubation, brooding, and feeding requirements are handled by both parents, with the males staying on the nest at night.
Plaquemines	LA	Bald Eagle	A large eagle with white head and tail in adult, wingspan 6 to 7.5 ft.. Tarsi are bare of feathers. Immatures are dark or mottled.	Nests near water; requires large trees for nesting. Winters along major rivers and reservoirs, and occasionally in rangeland areas. Fish, waterfowl, and carrion are the primary food sources.	Counties shown as present distribution are those that contain large wintering population. Winter concentrations occur around large bodies of water from December-March.
Plaquemines	LA	Louisiana Black Bear	Possesses skull that is longer, more narrow, and flat. Weight varies considerably, large males may weigh more than 600 pounds.	It is now restricted primarily to the Tensas and Atchafalaya River Basins in Louisiana. The Louisiana Black bear's occupied habitat consists primarily of bottomland hardwood timber found in its river basin habitats.	Based on testicular measurements, males probably reach sexual maturity at 3 yrs of age. Parturition in black bears has generally been assumed to occur in late January or early February with the actual birthing often occurring while the female is in hibernation. Litter size ranges from one to three.
Plaquemines	LA	Florida Panther	A large, long-tailed cat with pale brown or rusty upper parts, dull white or buffy under parts; tail tips, back of ears, and sides of nose dark brown or blackish. Mature panthers measured nearly 6-7 feet from nose to tip of tail.	Diversity of habitats used by panthers; dominated by uplands (hardwood hammocks, low pinelands, and palm forests). Lower diversity and predominately wetland habitat use are characteristic of southern areas (mixed swamp and cypress swamp).	Existing data indicates a breeding season of November to April, a gestation period of around 90-95 days, litter sizes of 1 to 4 kittens.

Federal Endangered Species

County	State	Name of Species	Species Description	Habitat	Comments
Plaquemines	LA	Bachman's Warbler	Total length being 4 to 4 and one-half inches. The male is olive green above, face and undeparts yellow, throat patch and crown patch black. The female lacks the black throat; the upper parts are olive green, the forehead and underparts yellow, and the crown grayish.	Nested in low wet forested areas containing variable amounts of water. When not on or near their nests, which were located near the ground, the birds were more often observed high in the tree tops, especially during migration.	Nesting has been recorded from late March to early June, with clutch size usually being three or four eggs, but occasionally five. The birds begin migrating southward during July and apparantly pass through Key West by early September.
Pointe Coupee	LA	Red-Cockaded Woodpecker	The red-cockaded woodpecker 18 to 20 centimeters long with a wing span of 35 to 38 centimeters. There are black and white horizontal stripes on its back, and its cheeks and underparts are white. Its flanks are black streaked. The cap and stripe onthe side of the neck and the throat are black. The male has a small red spot on each side of the black cap.	Open stands of pines with a minimum age of 60 years provide roosting and nesting requirements. Cavity excavation for roosting almost always occurs in living pines, and usually in those which are infected with a fungus producing what is known as red-heart disease.	This bird's range is closely tied to the distribution of southern pines.
Pointe Coupee	LA	Ivory-Billed Woodpecker	It has a white bill, large patches of white on the wings, and white lines on either side of the neck. The males have a red-colored crest, the females a black-colored crest. The ivory-bill's flight is level.	Requires extensive mature stands of lowland hardwood forest without disturbance from cutting. An area of 2 and one-half to 3 square miles is estimated to be the minimum habitat requirement per pair of birds.	Ivory-bills presumably mate for life and normally travel in pairs. Breeding occur during the period of January to May. Nest cavity is excavated in a dead or partially dead tree, 25 to 70 feet from the ground. The clutch size ranges from three to four eggs. Incubation, brooding, and feeding requirements are handled by both parents, with the males staying on the nest at night.
Pointe Coupee	LA	Bald Eagle	A large eagle with white head and tail in adult, wingspan 6 to 7.5 ft.. Tarsi are bare of feathers. Immatures are dark or mottled.	Nests near water; requires large trees for nesting. Winters along major rivers and reservoirs, and occasionally in rangeland areas. Fish, waterfowl, and carrion are the primary food sources.	Counties shown as present distribution are those that contain large wintering population. Winter concentrations occur around large bodies of water from December-March.
Pointe Coupee	LA	Louisiana Black Bear	Possesses skull that	It is now restricted	Based on testicular measurements,

Federal Endangered Species

County	State	Name of Species	Species Description	Habitat	Comments
			is longer, more narrow, and flat. Weight varies considerably, large males may weigh more than 600 pounds.	primarily to the Tensas and Atchafalaya River Basins in Louisiana. The Louisiana Black bear's occupied habitat consists primarily of bottomland hardwood timber found in its river basin habitats.	males probably reach sexual maturity at 3 yrs of age. Parturition in black bears has generally been assumed to occur in late January or early February with the actual birthing often occurring while the female is in hibernation. Litter size ranges from one to three.
Pointe Coupee	LA	Florida Panther	A large, long-tailed cat with pale brown or rusty upper parts, dull white or buffy under parts; tail tips, back of ears, and sides of nose dark brown or blackish. Mature panthers measured nearly 6-7 feet from nose to tip of tail.	Diversity of habitats used by panthers; dominated by uplands (hardwood hammocks, low pinelands, and palm forests). Lower diversity and predominately wetland habitat use are characteristic of southern areas (mixed swamp and cypress swamp).	Existing data indicates a breeding season of November to April, a gestation period of around 90-95 days, litter sizes of 1 to 4 kittens.
Pointe Coupee	LA	Eskimo Curlew	Medium-sized shorebird, with the slightly curved bill only about 2 inches long. The curlew has a black head, and its feathers have warm buffy brown tips. The underparts are a warm buffy color, and the under surface of the wings are conspicuously cinnamon buff.	The birds nested in the treeless Arctic tundra, and fed in open natural grassland and tundra, burned prairies, meadows, pastures, plowed lands and intertidal zones during migration and winter months.	Nesting from late May to about mid-June. End of July the breeding season is over and the adults are heading south, followed by the young. Spring migration began in late February with the birds moving through northern middle America and the Gulf of Mexico to the coasts of Texas and Louisiana, arriving there in early March.
Pointe Coupee	LA	Bachman's Warbler	Total length being 4 to 4 and one-half inches. The male is olive green above, face and undeparts yellow, throat patch and crown patch black. The female lacks the black throat; the upper parts are olive green, the forehead and underparts yellow, and the crown grayish.	Nested in low wet forested areas containing variable amounts of water. When not on or near their nests, which were located near the ground, the birds were more often observed high in the tree tops, especially during migration.	Nesting has been recorded from late March to early June, with clutch size usually being three or four eggs, but occasionally five. The birds begin migrating southward during July and apparantly pass through Key West by early September.
Rapides	LA	Red-Cockaded Woodpecker	The red-cockaded woodpecker 18 to 20 centimeters long with a wing span of 35 to 38	Open stands of pines with a minimum age of 60 years provide roosting and nesting requirements. Cavity excavation for roosting	This bird's range is closely tied to the distribution of southern pines.

Federal Endangered Species

County	State	Name of Species	Species Description	Habitat	Comments
			centimeters. There are black and white horizontal stripes on its back, and its cheeks and underparts are white. Its flanks are black streaked. The cap and stripe onthe side of the neck and the throat are black. The male has a small red spot on each side of the black cap.	almost always occurs in living pines, and usually in those which are infected with a fungus producing what is known as red-heart disease.	
Rapides	LA	Ivory-Billed Woodpecker	It has a white bill, large patches of white on the wings, and white lines on either side of the neck. The males have a red-colored crest, the females a black-colored crest. The ivory-bill's flight is level.	Requires extensive mature stands of lowland hardwood forest without disturbance from cutting. An area of 2 and one-half to 3 square miles is estimated to be the minimum habitat requirement per pair of birds.	Ivory-bills presumably mate for life and normally travel in pairs. Breeding occur during the period of January to May. Nest cavity is excavated in a dead or partially dead tree, 25 to 70 feet from the ground. The clutch size ranges from three to four eggs. Incubation, brooding, and feeding requirements are handled by both parents, with the males staying on the nest at night.
Rapides	LA	Bald Eagle	A large eagle with white head and tail in adult, wingspan 6 to 7.5 ft.. Tarsi are bare of feathers. Immatures are dark or mottled.	Nests near water; requires large trees for nesting. Winters along major rivers and reservoirs, and occasionally in rangeland areas. Fish, waterfowl, and carrion are the primary food sources.	Counties shown as present distribution are those that contain large wintering population. Winter concentrations occur around large bodies of water from December-March.
Rapides	LA	Louisiana Black Bear	Possesses skull that is longer, more narrow, and flat. Weight varies considerably, large males may weigh more than 600 pounds.	It is now restricted primarily to the Tensas and Atchafalaya River Basins in Louisiana. The Louisiana Black bear's occupied habitat consists primarily of bottomland hardwood timber found in its river basin habitats.	Based on testicular measurements, males probably reach sexual maturity at 3 yrs of age. Parturition in black bears has generally been assumed to occur in late January or early February with the actual birthing often occurring while the female is in hibernation. Litter size ranges from one to three.
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Federal Endangered Species

County	State	Name of Species	Species Description	Habitat	Comments
Rapides	LA	Eskimo Curlew	nose to tip of tail. Medium-sized shorebird, with the slightly curved bill only about 2 inches long. The curlew has a black head, and its feathers have warm buffy brown tips. The underparts are a warm buffy color, and the under surface of the wings are conspicuously cinnamon buff.	The birds nested in the treeless Arctic tundra, and fed in open natural grassland and tundra, burned prairies, meadows, pastures, plowed lands and intertidal zones during migration and winter months.	Nesting from late May to about mid-June. End of July the breeding season is over and the adults are heading south, followed by the young. Spring migration began in late February with the birds moving through northern middle America and the Gulf of Mexico to the coasts of Texas and Louisiana, arriving there in early March.
Rapides	LA	Bachman's Warbler	Total length being 4 to 4 and one-half inches. The male is olive green above, face and undeparts yellow, throat patch and crown patch black. The female lacks the black throat; the upper parts are olive green, the forehead and underparts yellow, and the crown grayish.	Nested in low wet forested areas containing variable amounts of water. When not on or near their nests, which were located near the ground, the birds were more often observed high in the tree tops, especially during migration.	Nesting has been recorded from late March to early June, with clutch size usually being three or four eggs, but occasionally five. The birds begin migrating southward during July and apparantly pass through Key West by early September.
Red River	LA	Red-Cockaded Woodpecker	The red-cockaded woodpecker 18 to 20 centimeters long with a wing span of 35 to 38 centimeters. There are black and white horizontal stripes on its back, and its cheeks and underparts are white. Its flanks are black streaked. The cap and stripe onthe side of the neck and the throat are black. The male has a small red spot on each side of the black cap.	Open stands of pines with a minimum age of 60 years provide roosting and nesting requirements. Cavity excavation for roosting almost always occurs in living pines, and usually in those which are infected with a fungus producing what is known as red-heart disease.	This bird's range is closely tied to the distribution of southern pines.
Red River	LA	Ivory-Billed Woodpecker	It has a white bill, large patches of white on the wings, and white lines on either side of the	Requires extensive mature stands of lowland hardwood forest without disturbance from cutting. An area of 2 and one-half to 3 square	Ivory-bills presumably mate for life and normally travel in pairs. Breeding occur during the period of January to May. Nest cavity is excavated in a dead or partially

Appendix A. Protection, Containment & Cleanup Methods

In This Section

1. Protection Methods

CCR §817.02(d)(6)(A-B), (e)(4)(A)(1-2)

A. Introduction

The following table lists the various types of habitats and identifies the preferred and viable protection methods to use when containing a release.

B. Table of Protection Methods

Protection Methods		
Habitat	**Preferred**	**Viable**
Open waters - offshore/near shore	• booms • skimmers	• burning • dispersants • sorbents
Open waters - enclosed bays and harbors	• booms • skimmers • herding • sorbents	• dispersants • vacuum pumping
Soft bottom subtidal	• booms • skimmers	• dispersants • herding
Seagrass beds	• booms • skimmers	• dispersants • herding
Rocky subtidal - open hard bottom and rocky reefs	• booms • skimmers	• dispersants • herding • high-pressure flushing
Kelp beds	• booms • skimmers	• dispersants • herding • high-pressure flushing
Exposed rocky intertidal	• booms • skimmers	• dispersants
Sheltered rocky intertidal	• booms • skimmers	• dispersants
Sandy beaches	• booms • skimmers • earth barriers	• dispersants

Protection Methods		
Habitat	**Preferred**	**Viable**
Sheltered tidal flats	• booms • skimmers • earth barriers	• dispersants
Gravel/cobble beach	• booms • skimmers	• earth barriers • dispersants
Coral reefs	• booms • skimmers	• dispersants
Mangrove forests	• booms • skimmers	• sorbents • dispersants
Salt marshes	• booms • skimmers • earth barriers	• herding • sorbents • dispersants
Special use	• booms • skimmers	• dispersants

2. Containment Methods

CCR §817.02(d)(6)(A-B), (e)(4)(A)(1-2)

A. Introduction

This section describes and illustrates typical containment techniques for:

- Street Containment
- Culvert Blocking and Damming
- Storm Drain Blocking
- Earth Containment Berm
- Blocking Dam
- Flowing Water Dams
- Sorbent Barriers
- Low to Moderate Current Containment Booming
- High Current Cascading Boom/Berms
- Quiet Water Containment
- Open Water Containment
- Exclusion Booming
- Diversion Booming, and
- Beach Berming.

Government approval may be needed before using any of the following techniques.

Containment and recovery activities should be conducted in safe conditions. Deployment of containment and recovery equipment should be attempted only when conditions do not exceed the capabilities of the people, equipment or vehicles used to deploy the equipment.

Refer to Hilcorp's Safety Manual for information on:

- atmospheric monitoring
- hot work permits
- confined space
- excavation techniques, and
- personal protection equipment.

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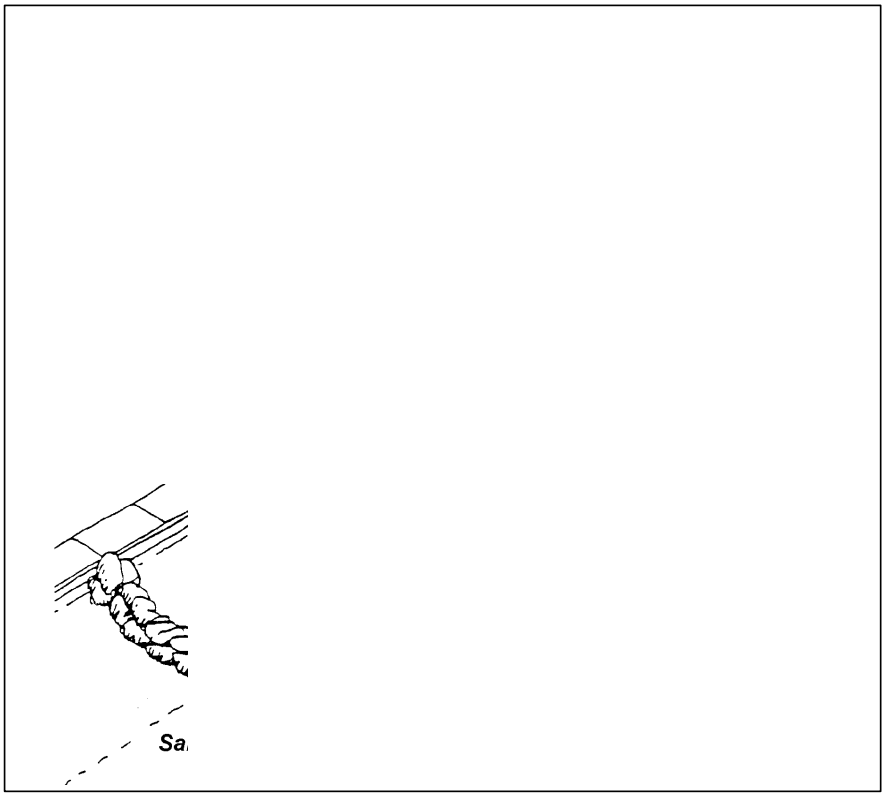
B. Street Containment

General Instructions

Construct barriers with sandbags, soil, or gravel. If coarse materials are used, the spill side should be made impermeable with plastic sheeting or similar material. Barrier height should equal curb height. If there is no curb, build a "horseshoe" barrier.

If a greater storage area is needed, a diversion barrier can be constructed at an angle across the street to direct oil into a parking lot or open field where a larger containment barrier has been built. Recover oil by pumping or vacuuming. See the *Street Containment* drawing below.



Maintenance

Periodically check the barrier for leaks, structural integrity, and adequate height.

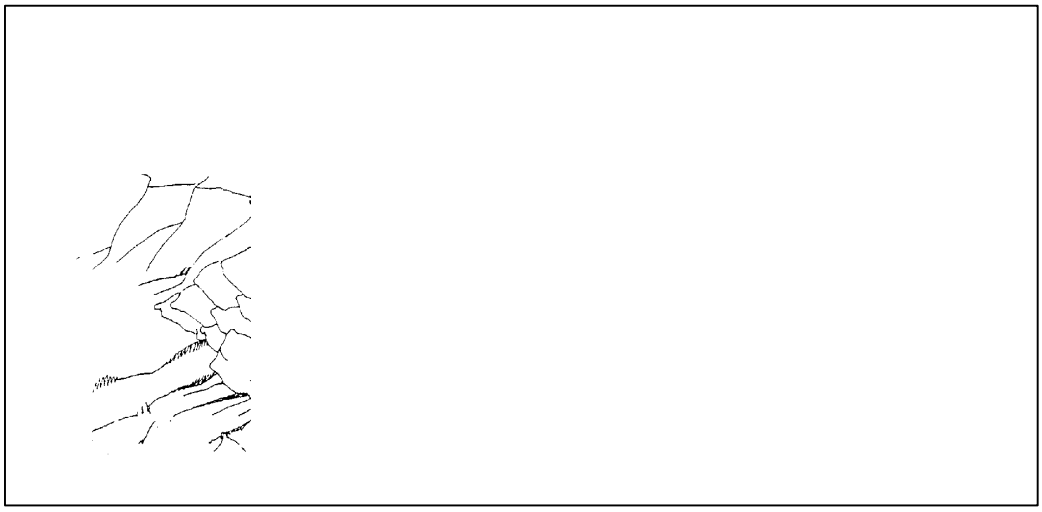
Variations

None.

C. Culvert Blocking and Damming

General Instructions

Block the culvert by piling dirt, sand or similar material over the upstream end of the culvert creating a containment dam. Sandbags or plywood sheets are also effective. See the *Culvert Blocking* drawings below. Inflatable plugs may be used if available at the site. Recover oil by skimming, vacuuming, or pumping.

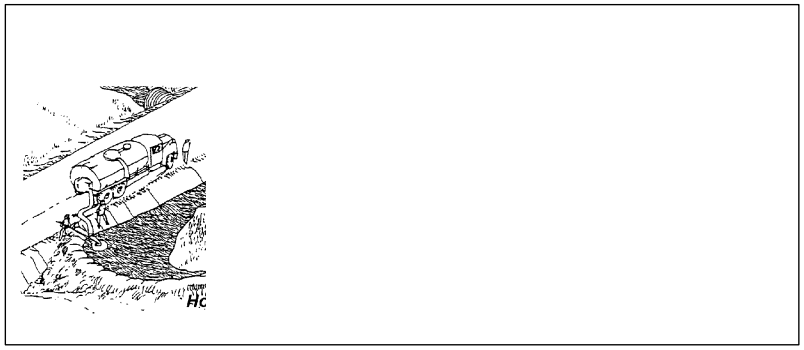


Maintenance

Periodically check the culvert for leaks, structural integrity, and excessive oil buildup.

Variations

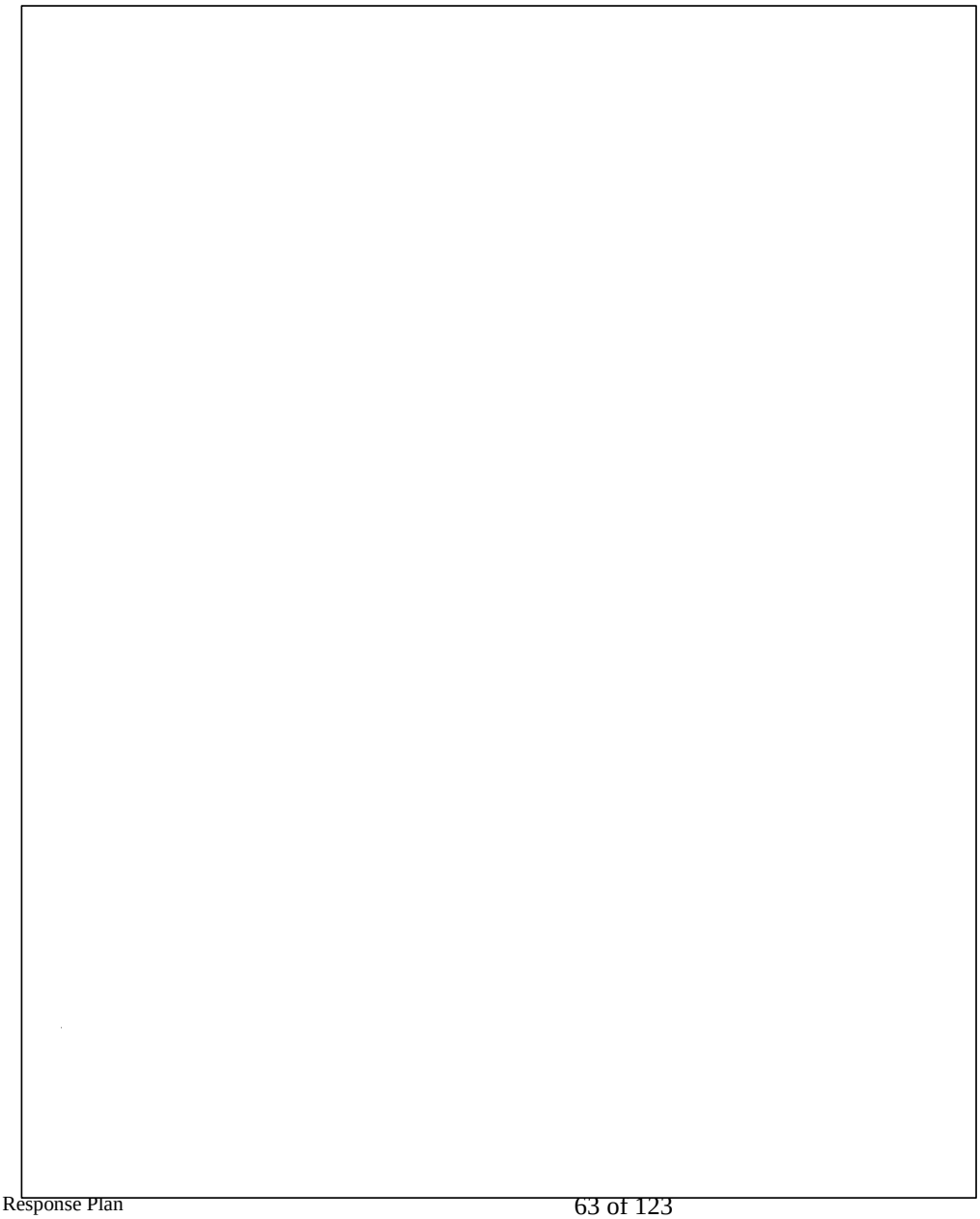
If there is little or no storage area on the spill side of the culvert, it may be advantageous to permit the oil to pass through the culvert and to dam and contain the release at the culvert outfall. See the drawing of *Damming Flow at Culvert Outfall* below.



D. Storm Drain Blocking

General Instructions

For curb inlets, position a board over the curb inlet and hold it in place with a sandbag. Street inlets can be blocked similarly with a board or plastic sheeting. Both inlet-blocking techniques are illustrated in the drawing of *Storm Drain Blocking* below. Recover oil by skimming, vacuuming, or pumping.



Maintenance

Periodically check for leaks.

Variations

Other materials may be used to block inlets.

E. Earth Containment Berm

General Instructions

Construct berms by forming materials into ridges in a "horseshoe" shape. Width of containment opening should exceed that of the leading edge of the oncoming released oil. Berm height and the size of the containment area depend on the quantity of the release. Recover oil by skimming, pumping, or vacuuming.

Maintenance

Periodically check berms for leaks and adequate height.

Variations

In areas with a high groundwater table or high soil permeability, the containment area may be lined with plastic sheeting to inhibit soil penetration. The drawing below shows a *Lined Earth Containment Berm.*

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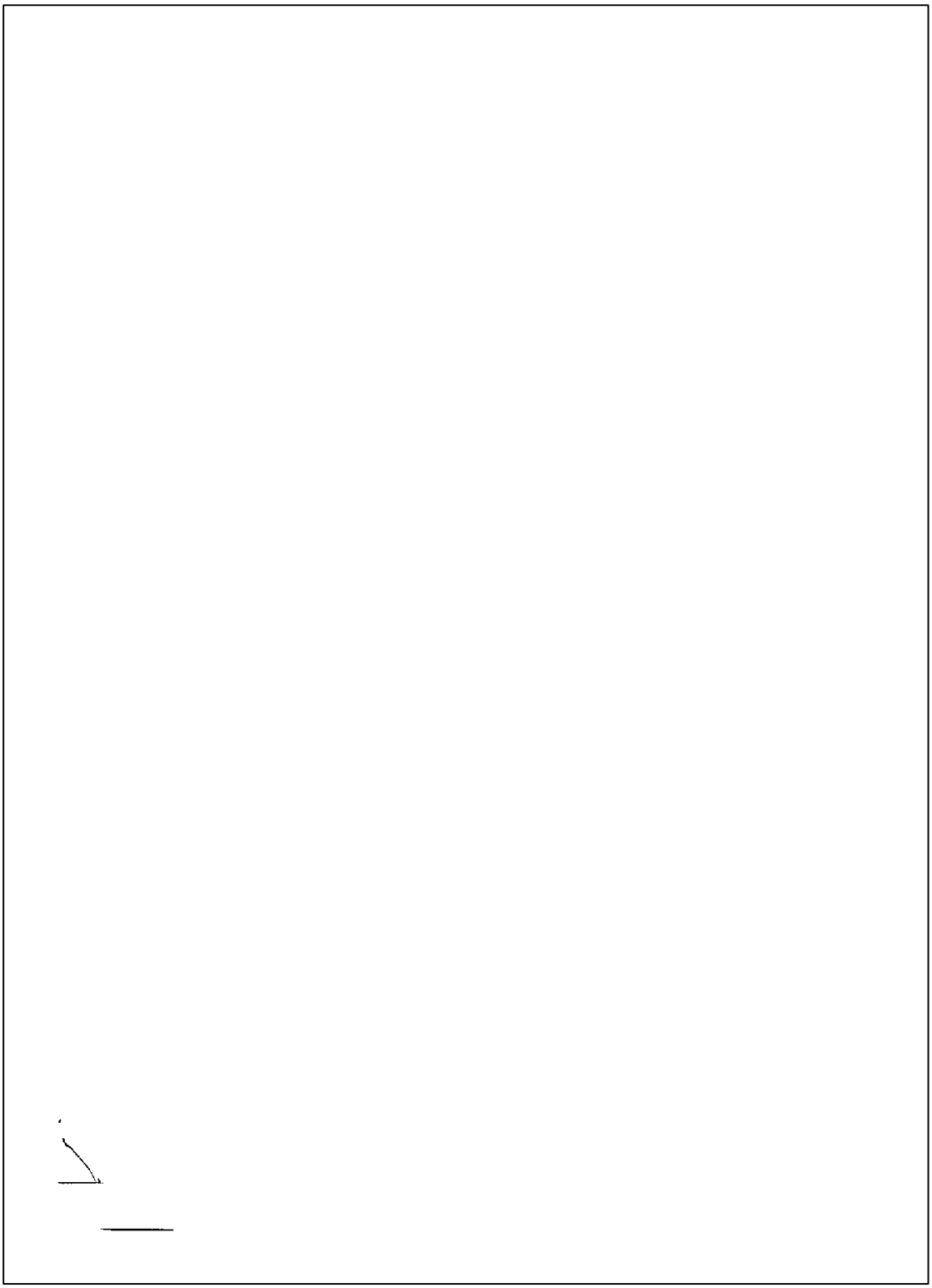


F. Blocking Dam

General Instructions

Construct the dam using earthen materials, sandbags, plywood sheets or any material that blocks the flow of oil. If necessary, excavate earthen materials from the upstream side to increase storage capacity. Plastic sheeting should be placed over the dam to prevent penetration and erosion. Recover oil from behind the dam by pumping or using vacuum trucks.

Dam locations should have high banks on the upstream side with the dam tightly secured into the banks.

Maintenance

Periodically check the dam for leaks, structural integrity and excessive oil buildup.

Variations

None.

G. Flowing Water Dams

General Instructions

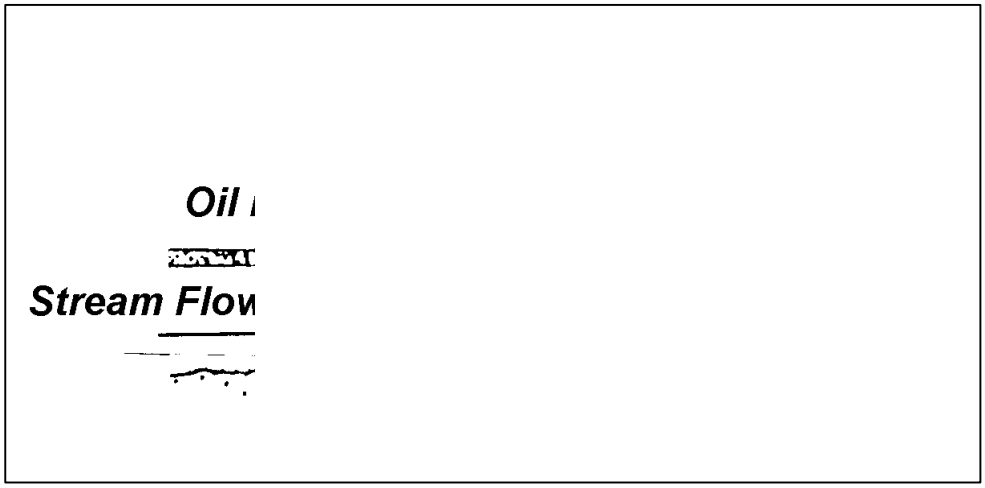
Construct dam with earthen materials, sandbags, plywood sheets, or any other material that blocks the flow of oil. If necessary, excavate material from the upstream side to increase dam storage capacity. To prevent penetration and erosion make the upstream side impermeable with plastic sheeting. Recover oil by skimming.

Dam locations should have high banks on the upstream side with the dam tightly secured into the banks.

Underflow Dams

Underflow dams use inclined pipes that have a flow capacity greater than the stream flow rate.

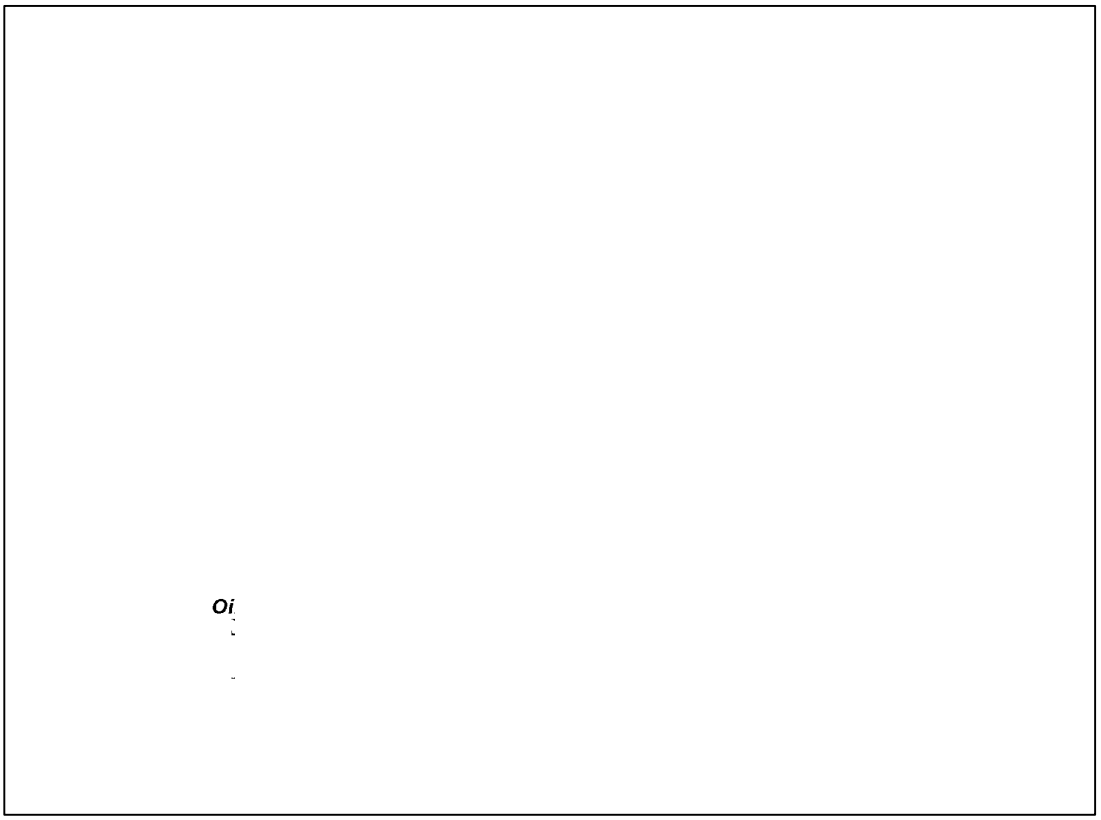
Construct the dam as described above and place pipes on an incline as shown in the picture of an *Underflow Dam* below. The height of the raised end determines the water level behind the dam. Adjust the height and number of pipes until a constant water/oil level is achieved behind the dam.



Overflow Dams

For overflow dams, water flows over the top of the dam, and booms positioned behind the dam contain the floating oil.

Construct the dam as described above, and anchor the boom several feet behind the dam. Pumps or siphons can also be used to pass water over the dam. To be effective, the pumping rate should be greater than the stream flow rate. See the drawings of *Overflow Dams* below.



Maintenance

Periodically check dam for leaks and integrity. Replace eroded material.

Variations

None.

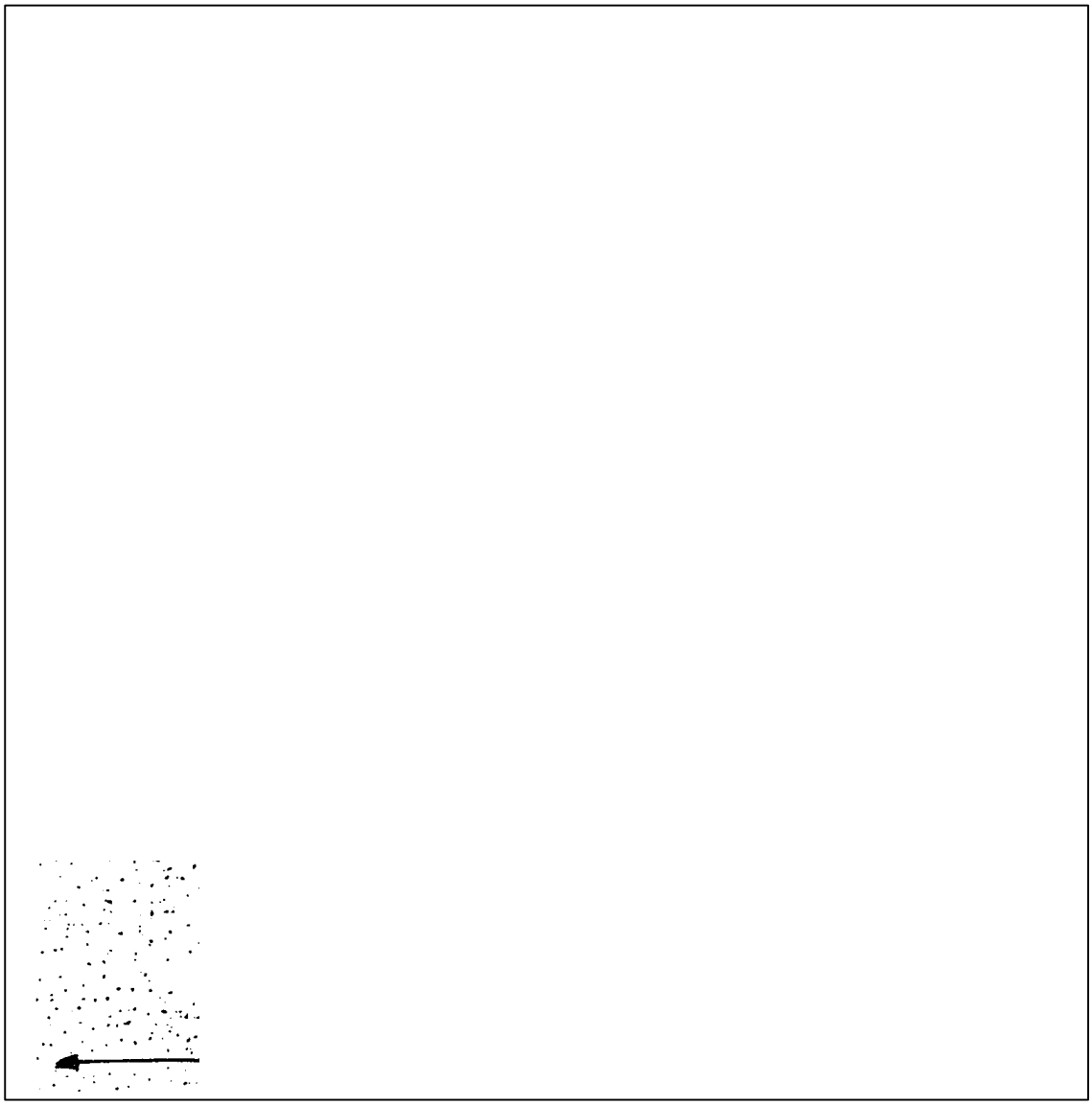
H. Sorbent Barriers

General Instructions

Construct single-sided barriers by driving a line of posts into the stream bottom with wire mesh screen fastened to the upstream side. Place snare (sorbent) squares or strips in front of the screens.

In tidal channels with reversing currents, construct a double-sided barrier. Erect two parallel lines of posts across the channel and attach screen along each line of posts. Place sorbents between the screens to trap floating oil and contaminated debris. See the drawing of a *Sorbent Barrier* below.

Screen height for both types of barriers must be sufficient to prevent the scattering of loose sorbent from above or beneath the barrier as flow levels change. The screen mesh must be compatible with the type and size of filler sorbent and able to withstand currents.



Maintenance

Turn sorbents regularly for maximum absorbency and replace them when they are completely saturated. Check barriers periodically for leaks or damage.

Variations

If significant quantities of oil are encountered, construct multiple barriers. Recover oil pooling behind the barrier by skimming, pumping, or using sorbents.

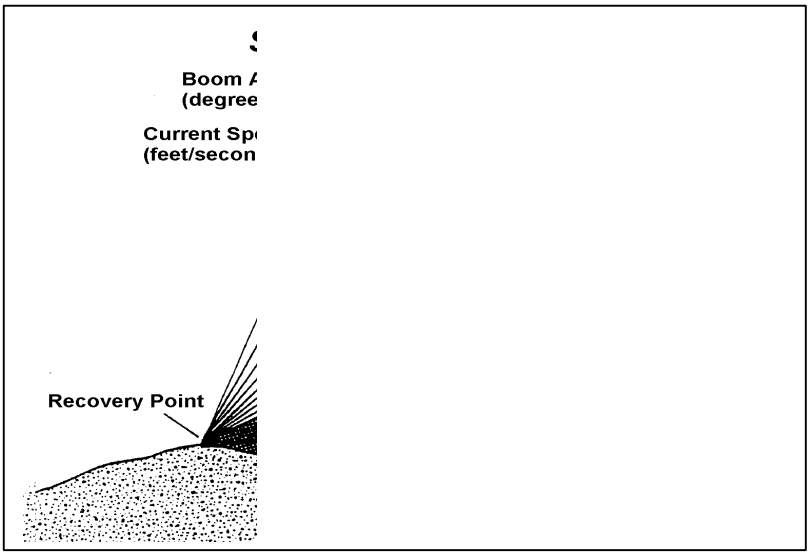
I. Low to Moderate Current Containment Booming

General Instructions

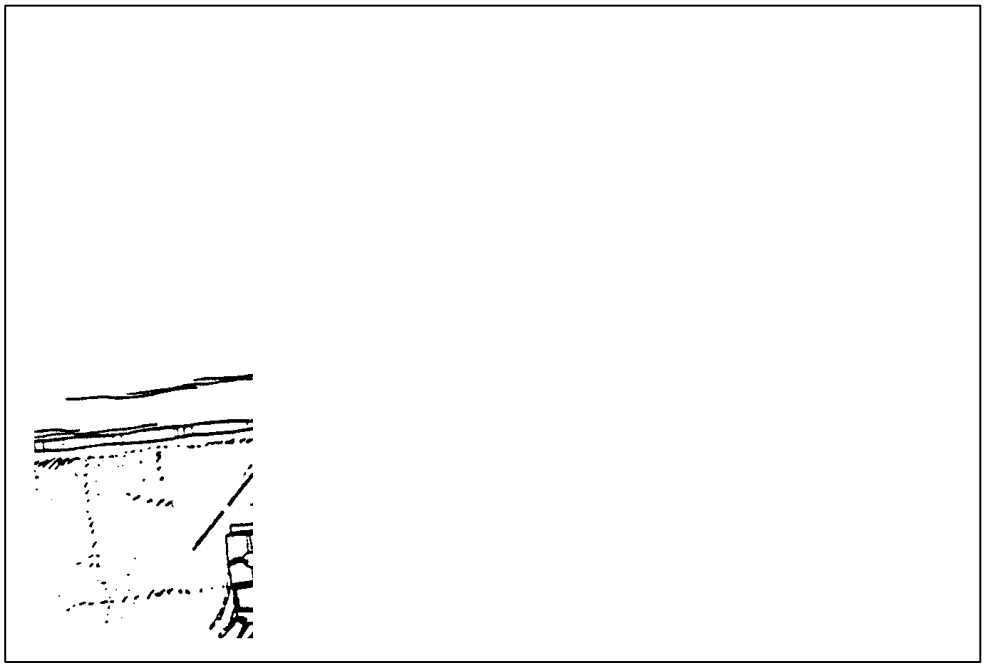
Anchor one boom end to the shoreline. Use a boat or winch to pull the free end across the river and anchor it slightly upstream. The optimum deployment angle depends on current velocity, boom length, and boom stability.

In general, boom length should be four times the width of the waterway. As current velocity and boom length increase, the deployment angle relative to the shoreline decreases. To improve boom stability, anchor it in several places. The *Shoreline Containment* drawing below shows nine boom deployment angles as a function of current speeds.

Boat motors could ignite fumes or vapors.



Remove oil from the downstream end of the boom by skimming, pumping or using vacuum trucks. A shallow containment pit dug into the shoreline can expedite the containment and recovery process as shown in the drawing of *Booming With Containment Pit* below.



Maintenance

Periodically check the boom for leaks and adjust its placement angle, if necessary. Also check boom for twisted, damaged or submerged sections. Check anchors for security.

Variations

For wide rivers, deploy two or more booms from each bank with one positioned slightly downstream from the other. Anchor the free ends so that they overlap slightly past the mid-stream point.

If not enough boom is available to deploy from both banks, deploy a single boom from the side of the river with the heaviest concentration of oil.

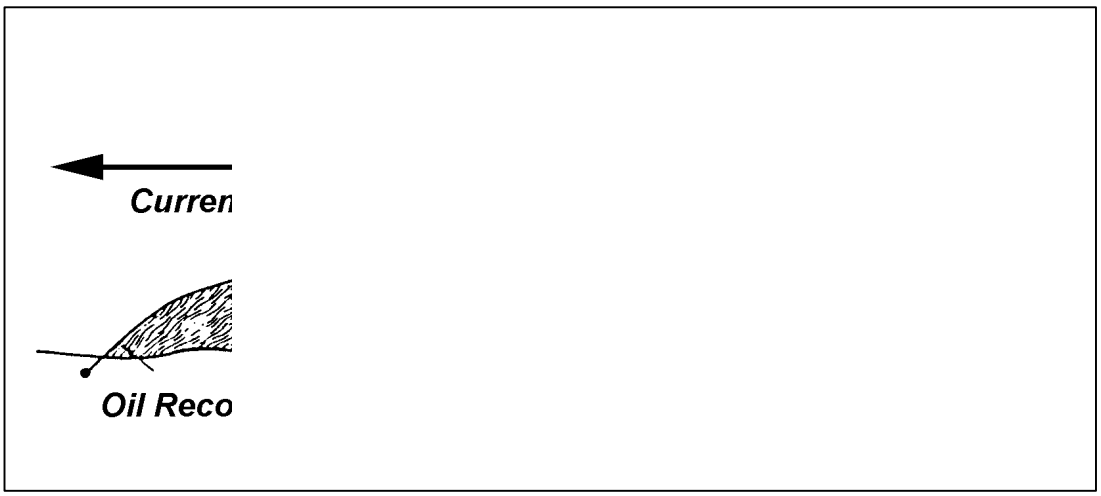
J. High Current Cascading Boom/Berms

General Instructions

Tow the lead boom to the opposite shore or to some point mid-stream and anchor it at an angle to the current. Deploy a second boom angled toward the shoreline and anchor the free end 25 to 30 feet downstream from the first so that it overlaps the trailing end of the lead boom. Deploy successive booms in the same manner until the shoreline is reached.

Boat motors could ignite fumes or vapors.

Diverted oil may be recovered by skimming, pumping, or using vacuum trucks. A shallow containment pit can be dug into the river bank or shoreline to assist oil recovery. The optimum boom deployment angle decreases as current velocity and boom length increase unless several anchor points are set along the length of the boom. See the drawing of *High Current Cascading Booming* below.



Maintenance

Periodically check the booms for leaks and adjust the deployment angle, if necessary. Also, check the booms for damaged, twisted, or submerged sections. Check anchors for security.

Variations

If booms are unavailable or if the water is too shallow, berms may be built using streambed or near-site materials arranged in a cascading configuration as shown in the drawing of *High Current Cascading Berming* below.

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K. Quiet Water Containment

General Instructions

Contain any released oil flowing into a body of water at the point where the spill enters the water. Anchor one end of the boom to the shoreline. Using a boat, pull the other end out around the leading edge of the slick and back to the shore on the other side of the slick, as illustrated in the drawing of *Quiet Water Containment* below. Recover oil by skimming.

Small slicks, sheen, or patches of oil can be contained by completely encircling them with the boom. Anchor one boom end near the edge of the slick. Pull the other end around the perimeter of the floating oil and attach it to the anchored end.

Boat motors could ignite fumes or vapors.

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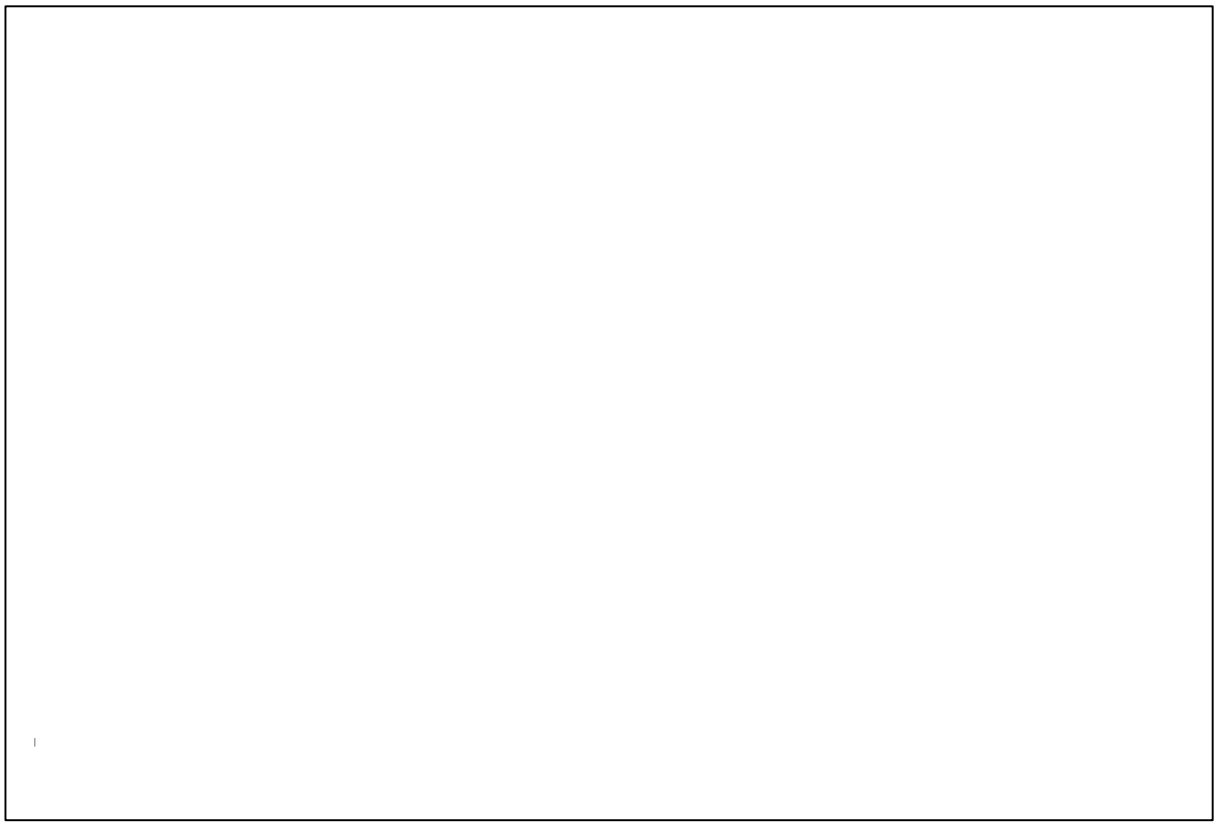
Volume II_ Appendix A_Protection, Containment & Cleanup Methods

Revised 09-28-2010



Maintenance

Periodically check booms for leaks or broken, twisted, or submerged sections.

Variations

If a spill in water is too large for containment, oil may eventually migrate to the water outlet. Booms can be placed across the outlet to contain and concentrate the oil for vacuum recovery.

L. Open Water Containment

General Instructions

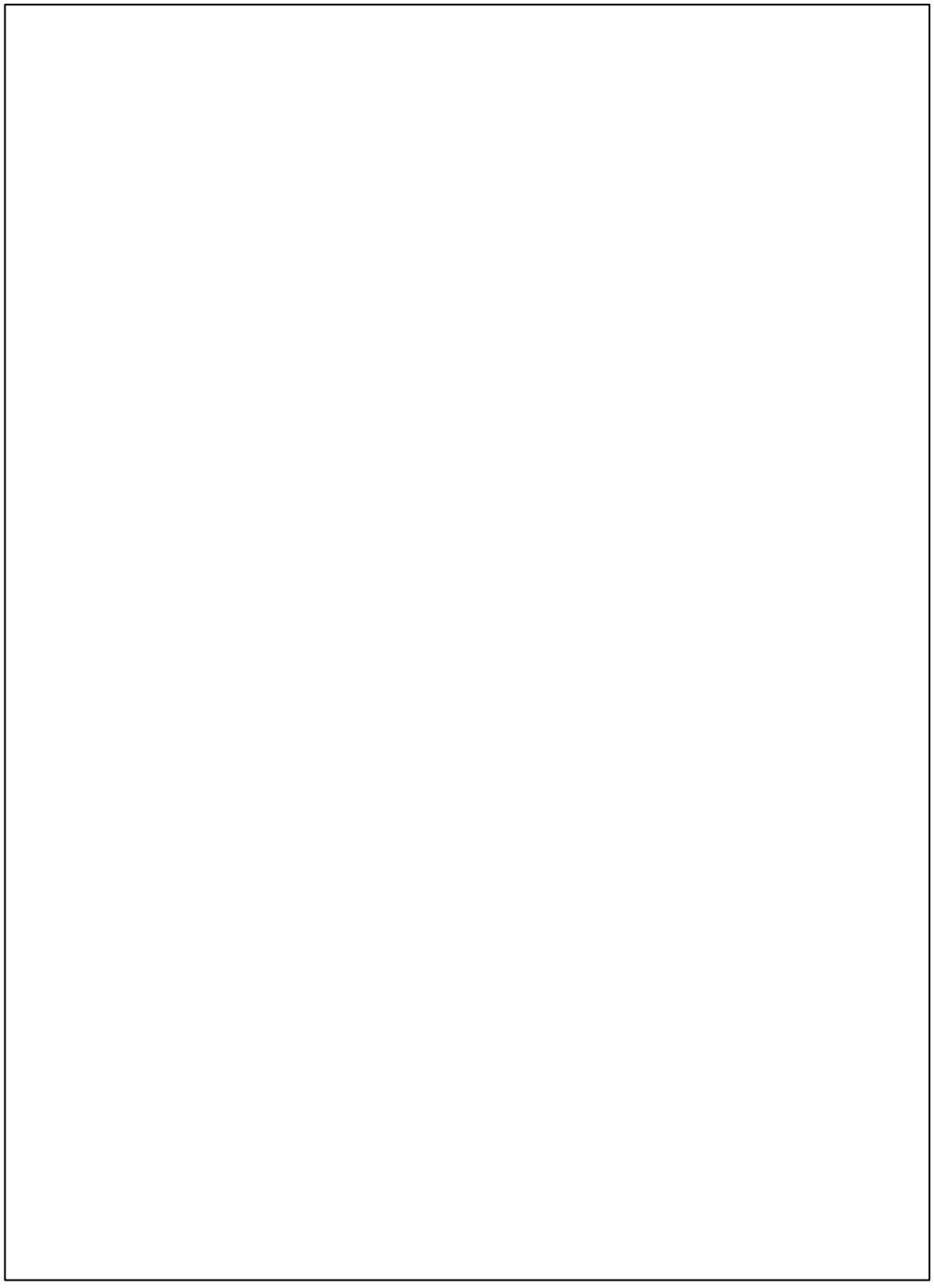
Position the deployment boat along one side of the slick's leading edge. Deploy the boom using an assist boat. Tow the free end around the slick's leading edge and hold it in place with the assist boat as shown in the drawing of *Open Water Containment* below.

Wind and currents will concentrate the oil in the boom where a boat can be positioned to begin skimming operations. Under strong wind and sea conditions it may be advantageous to deploy upwind and chase the slick downwind in order to reduce the relative forces between the boom and the seas.

Boat motors could ignite fumes or vapors.

Facility Response Plan
Volume II_ Appendix A_Protection, Containment & Cleanup Methods

Revised 09-28-2010



Maintenance

Continually reposition the skimmer to the area of heaviest oil concentration. Check the boom periodically for leaks and broken, twisted, or submerged sections. The boom may require repositioning or redeployment if the current or wind direction changes appreciably.

Variations

Two boats or two sea anchors can be used to deploy the boom in a catenary configuration as shown in the drawing below. Tow the boom ends up either side of a slick until all the oil is contained within the boom.

M. Exclusion Booming

General Instructions

Place booms across the area to be protected and anchor both ends to the shore. For inlets or harbor entrances, booms should be placed inside the opening where current velocities and wave action are lowest. To allow vessel passage through harbor waters, one boom end may be attached to a small boat.

Booms may also be deployed in a cascading configuration as described earlier which provides vessel passage and excludes oil. To maintain boom integrity, anchors should be placed at 100-foot intervals if substantial boom lengths are required. Three techniques are shown in the drawing of *Exclusion Booming* below. Recover contained oil by skimming or pumping.

Boat motors could ignite fumes or vapors.

Maintenance

Periodically check boom for integrity, leaks, or twisted, broken, or submerged sections. In tidal waters or areas with fluctuating water levels, reposition the boom and/or its anchor points as water levels change.

Variations

Double or triple booming may be employed in areas with high currents. Position a primary boom in the area of strongest currents and deploy secondary or tertiary booms several hundred yards behind the first as a backup measure

N. Diversion Booming

General Instructions

Anchor one end of the boom to the shoreline. Use a vessel to position the free end of the boom at an angle to the current. If oil is being diverted to the shore, angle the free end of the boom toward the oncoming flow as shown in the drawings titled *Diversion Booming* below.

Oil diverted toward the shore can be recovered by skimming or pumping. If oil is being diverted away from the shore, angle the free end away from the approaching slick. If the spill is large or continuing, the free end of the boom should also be anchored in place.

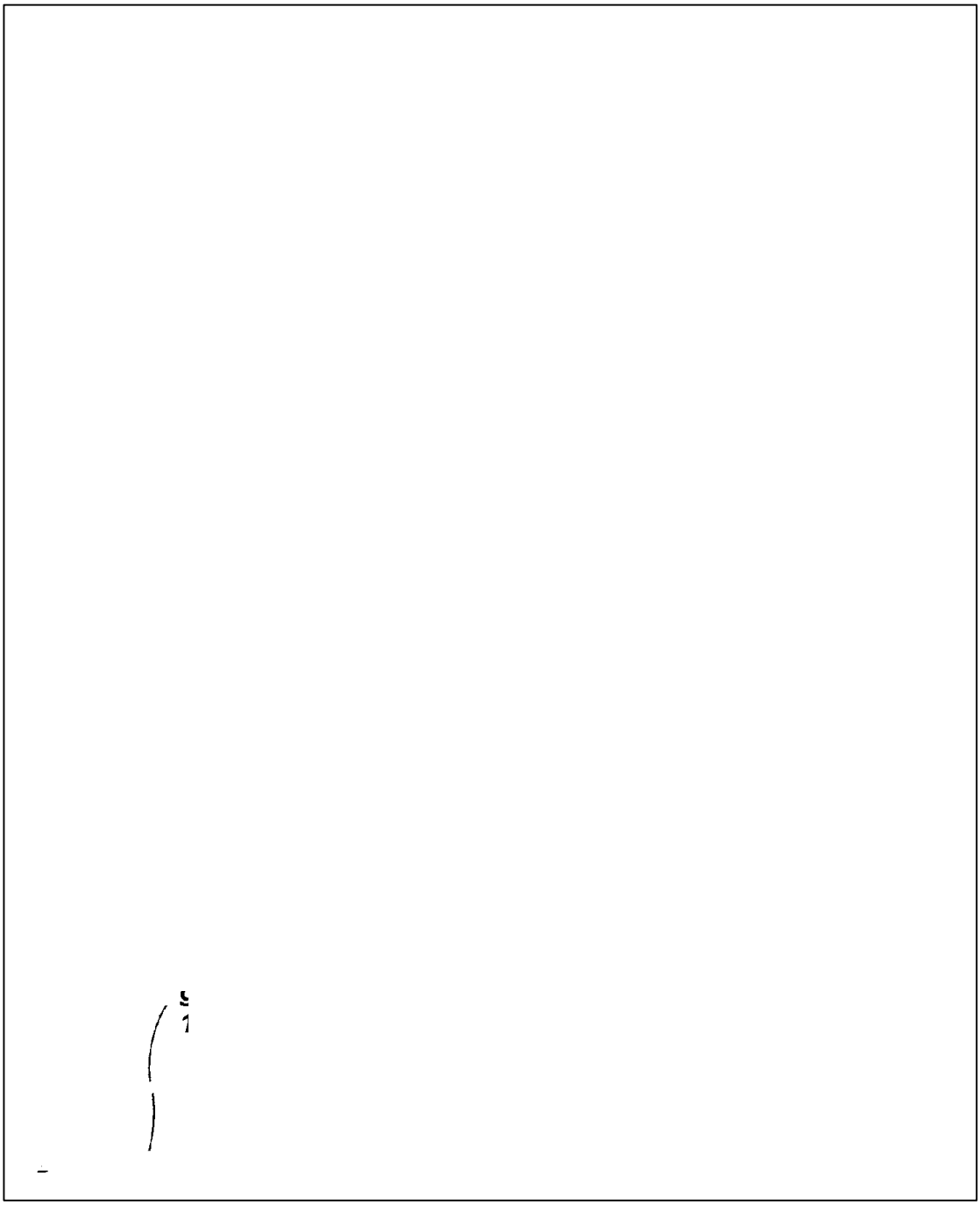
The optimum angle of boom deployment depends on the type and length of boom used, the current velocity, and the shape and position of the approaching slick. Generally the free end of the boom must be angled toward the shoreline as current velocity increases.

To avoid boom failure in strong currents, the deployment angle must be smaller than in weak currents. The same relation is true with regard to boom length. The optimum deployment angle decreases as boom length increases unless the boom is anchored at several places along its length.

Boat motors could ignite fumes or vapors.

Facility Response Plan
Volume II_ Appendix A_Protection, Containment & Cleanup Methods

Revised 09-28-2010



Maintenance

Periodically check the boom for leaks and broken, twisted, or submerged sections. The deployment angle may require adjustment in the event of significant wind or current changes, oil entrainment beneath the boom or excessive buildup behind the boom. The shoreline anchor point may require occasional repositioning due to tidal fluctuations.

Variations

Two booms can be deployed to divert an approaching slick from a shoreline and into a floating skimmer. Secure one end of each boom to opposite sides of the skimmer and tow one free end along or parallel to the threatened shore. By towing the other free end toward open water, the booms form a vee to trap the encroaching oil while the skimmer recovers the contained slick before it reaches the shore.

O. Beach Berming

General Instructions

With a grader build a berm midway between the high and low tide lines parallel to the surf line. Several passes are usually required to produce an adequate berm height. A bulldozer is usually required to assist the grader when it gets stuck. Bulldozers can also be used to build sand berms. If heavy equipment is unavailable, shovels may be used to construct berms. Recover oil by skimming, pumping, or using sorbents.

Maintenance

Continually check berm for adequate height. Maintain or increase berm height as necessary.

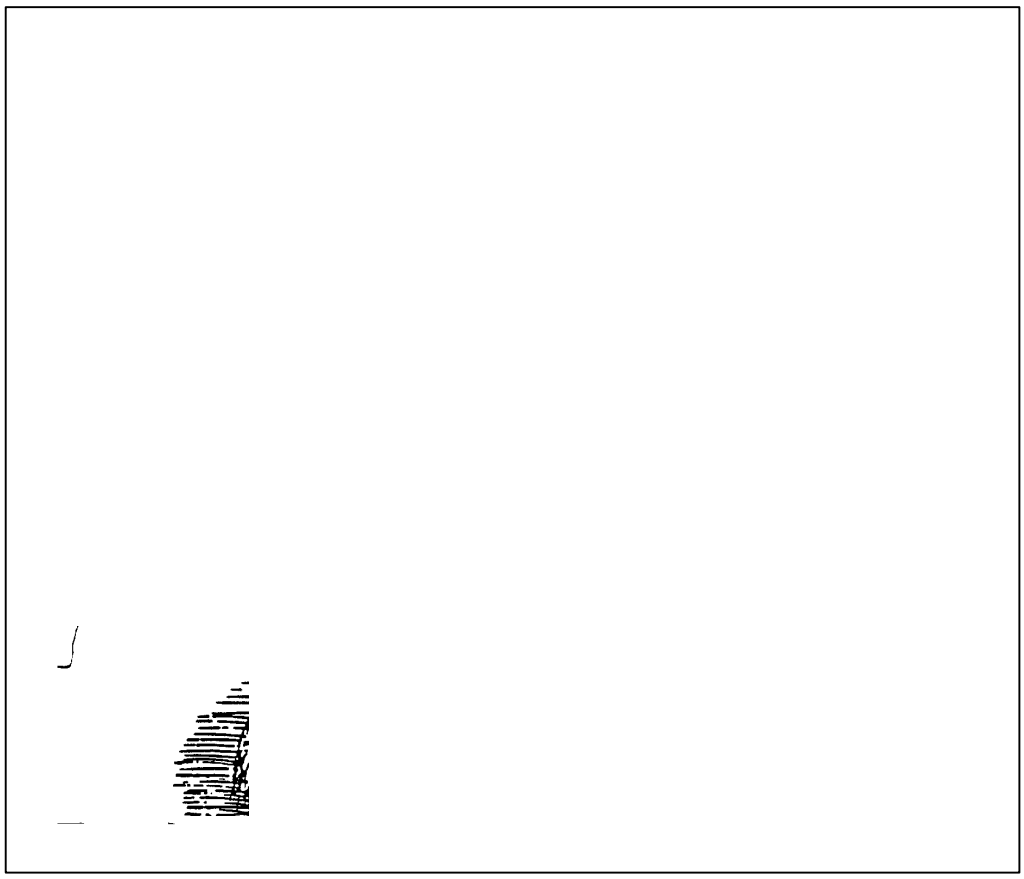
Variations

A trench may be dug on the seaward side of the berm to assist in collecting incoming oil for subsequent removal as illustrated in the drawing of *Beach Berming* below. This could, however, allow deeper contaminant penetration into the sediments.

A trench may also be dug on the beach side of the berm. This trench will aid in containing run off when flushing contaminated areas on the beach side of the berm.

Facility Response Plan
Volume II_ Appendix A_Protection, Containment & Cleanup Methods

Revised 09-28-2010



3. Cleanup Methods

CCR §817.02(e)(4)(A)(2-3)

A. Introduction

The following table lists the various types of habitats and the preferred and viable cleanup methods to use. It also identifies methods that are considered inadvisable and to avoid.

B. Table of Cleanup

Habitat	Preferred	Viable	Not Advisable	To Avoid
Open waters – offshore/near shore	• booms • skimmers • natural cleansing	• herding • sorbents • vacuum pumping • dispersants	• burning	• sinking agents
Open waters - enclosed bays and harbors	• booms • skimmers • natural cleansing	• dispersants • herding • sorbents • vacuum pumping	• burning	• sinking agents
Soft bottom subtidal	• natural cleansing	• manual removal	• substrate removal • vacuum pumping	• NA
Seagrass beds (intertidal)	• natural cleansing	• low-pressure flushing	• dispersants • manual removal • sorbents	• burial • high-pressure flushing • substrate displacement • substrate removal • vacuum pumping • vegetation cropping

Habitat	Preferred	Viable	Not Advisable	To Avoid
Seagrass beds (wade zone subtidal)	• natural cleansing	• low-pressure flushing • sorbents	• dispersants • manual removal • vegetation cropping	• vacuum pumping
Rocky subtidal - open hard bottom and rocky reefs	• natural cleansing (exposed)	• natural cleansing (sheltered) • sorbents • vacuum pumping	• high-pressure flushing • manual removal	• NA
Kelp beds	• natural cleansing	• booms • skimmers • low-pressure flushing • sorbents • vegetation cropping	• dispersants • high-pressure flushing • vacuum pumping	• burning • sinking agents
Exposed rocky intertidal	• natural cleansing	• booms • skimmers • dispersants • low-pressure flushing • manual removal • sorbents • vacuum pumping	• burning • high-pressure flushing • vegetation cropping	• sand blasting • steam cleaning • substrate removal
Sheltered rocky intertidal	• booms • skimmers	• low-pressure flushing • manual removal • sorbents • vacuum pumping	• burning • dispersants • high-pressure flushing • natural cleansing • vegetation	• steam cleaning • substrate removal

Habitat	Preferred	Viable	Not Advisable	To Avoid
			cropping	
Sandy beaches (exposed)	• beach cleaning machines • manual removal • natural cleansing • substrate displacement • substrate removal • vacuum pumping	• dispersants • sorbents	• NA	• burial • burning • high-pressure flushing
Sandy beaches (sheltered)	• beach cleaning machines • manual removal • vacuum pumping	• low-pressure flushing • natural cleansing • sorbents	• substrate removal	• burial • burning • dispersants • high-pressure flushing • substrate displacement
Sheltered tidal flats	• booms • skimmers • low-pressure flushing • natural cleansing • sorbents	• manual removal • vacuum pumping	• dispersants	• burial • high-pressure flushing • substrate displacement • substrate removal
Gravel/cobble beaches (exposed)	• dispersants • low-pressure flushing • natural cleansing	• NA	• high-pressure flushing • manual removal • sand blasting • sorbents	• burial • steam cleaning • substrate displacement • substrate removal
Sheltered gravel	• manual removal	• low-pressure	• natural cleansing	• burial • burning

Habitat	Preferred	Viable	Not Advisable	To Avoid
beaches	• vacuum pumping	flushing • sorbents	• substrate removal	• dispersants • high-pressure flushing
Sheltered cobble beaches	• low-pressure flushing • natural cleansing	• dispersants • sorbents	• high-pressure flushing • manual removal	• sand blasting • steam cleaning • substrate displacement • substrate removal
Coral reefs (lagoons)	• booms • skimmers • natural cleansing • vacuum pumping	• manual removal • sorbents	• dispersants	• burning
Coral reefs (deep fore, flats, crests)	• natural cleansing	• dispersants • low-pressure flushing • vacuum pumping	• sorbents	• burning
Mangrove forests	• booms • skimmers • low-pressure flushing • management of drainage	• herding • manual removal • natural cleansing • sorbents • vacuum pumping • dispersants	• high-pressure flushing	• burning • substrate removal
Salt marshes	• booms • skimmers • low-pressure flushing • management of drainage • natural	• dispersants • herding • sorbents • vacuum pumping	• vegetation cropping	• burning • high-pressure flushing • manual removal • steam cleaning

Habitat	Preferred	Viable	Not Advisable	To Avoid
	cleansing			• substrate removal

4. Advantages and Disadvantages

A. Introduction

The following table lists the advantages and disadvantages of protection and cleanup techniques.

B. Table of Advantages and Disadvantages

Technique	Advantage	Disadvantage
Beach cleaning machines	• exerts minimal environmental effects on firm sediment	• removes organisms
Booms	• causes minimal environmental impact	• is effective only in calm conditions
Burial (disking/mixing)	• can accelerate weathering	• increases penetration into sediments • can kill organisms • can delay reestablishment of organisms
Burning	• can prevent the released material from reaching the shoreline	• causes air pollution • destroys plants and animals • leaves toxic residues
Dispersants	• breaks the released material into small droplets • prevents the released material from reaching the shoreline	• increases the concentration of the released material in water column • is useful only on fresh, low viscosity oils
Earth barriers	• protects areas from contamination	• disturbs sediment-dwelling organisms and vegetation

Technique	Advantage	Disadvantage
Herding	• helps to control the spreading of oil	• may impact surface dwelling plankton or floating eggs • causes possible toxic effects • is most effective in calm water
High-pressure flushing [>100 pounds per square inch, (psi)]	• is effective in removing oil	• causes habitat modification • completely removes organisms • can increase penetration into sediment
Low-pressure flushing (<100psi)	• causes minimal ecological impact	• must recover flushed material to prevent recontamination
Management of existing drainage	• enhances flushing of released material out of the area • prevents or reduces the entrance of released material into the area	• can result in the destruction of plants or animals in the sediment
Manual removal	• is useful for small patches of viscous oils	• causes a potential impact from foot or equipment traffic • can cause mixing of the released material in the sediment • removes organisms
Natural cleansing	• causes action by microbes, sunlight, and wave action • is most effective in high energy environment	• can smother organisms • can delay recovery
Sand blasting	• is useful on a solid surface	• kills all attached organisms
Sinking	• none	• is prohibited by U.S. law

Technique	Advantage	Disadvantage
Skimmers	• causes minimal environmental impact	• is effective only in relatively calm conditions
Sorbents	• causes minimal environmental impact	• must recover and dispose of the sorbents • should not use sorbents that sink
Steam cleaning	• is effective in removing the released material from solid surfaces	• kills all organisms • can modify habitat • can result in increased penetration of released material into sediments
Substrate displacement	• moves the released material to lower intertidal zone so it is cleaned by natural processes	• can increase beach erosion • can smother organisms • can damage other habitats
Substrate removal	• removes the released material from large areas using heavy equipment	• kills sediment-dwelling organisms • can increase erosion
Vacuum pumping	• causes minimal environmental damage if properly used	• is only useful with calm water and heavier oil
Vegetation cropping	• can speed up removal of the released material from inter-tidal zone if properly used	• can kill plants • causes a loss of shelter for animals • can increase erosion • increases the penetration into the sediment

Appendix B

In This Section

1. General Forms Matrix
2. Incident Command System Forms Matrix
3. Emergency Equipment Inspection Form
4. Internal Exercise Documentation Forms
5. Initial Notification Form

1. General Forms Matrix

General Forms Matrix	
Form Title	**Location of Hard Copy**
Emergency Equipment Inspection Form	Appendix B
Equipment Deployment Exercise Form	Appendix B
Notification Exercise Form	Appendix B
Spill Management Team Tabletop Exercise Form	Appendix B
First Notification of Incident	Appendix B

2. Incident Command System Forms Matrix

Incident Command System Forms Matrix			
E-ICS Form #	**Form Title**	**Prepared By**	**Location of Hard Copy**
201	Incident Briefing	Initial Response IC	EH&S
No Form #	Incident Action Plan Cover	Plan Development Leader	EH&S
202	Response Objectives	Plan Development Leader	EH&S
203	Organization Assignments List	Resource Unit Leader	EH&S
204	Division Assignments List	Operations Chief Resource Unit Leader	EH&S
205	Radio Communications Plan	Communications Leader	EH&S
206	Medical Plan	Medical Leader	EH&S
207	Organization Chart	Resource Unit Leader	EH&S
208	Site Health & Safety Plan	Safety Officer Industrial Hygiene Leader	EH&S
209	Incident Status Summary	Situation Unit Leader	EH&S
210	Status Change Card	Communications Center	EH&S
211	Check-in List	Resource Unit at Multiple Locations	EH&S
213	General Message Form	All Positions	EH&S
214	Unit Log	All Positions	EH&S
215	Operational Planning Worksheet	Resources Unit Leader	EH&S
216	Radio Requirements Worksheet	Communications Leader	EH&S

Incident Command System Forms Matrix			
E-ICS Form #	**Form Title**	**Prepared By**	**Location of Hard Copy**
217	Radio Frequency Worksheet	Communications Leader	EH&S
218	Support Vehicle Inventory	Transportation Leader (Logistics)	EH&S
219	Resource Status Card	Resource Unit Leader	EH&S
220	Air Operations Summary	Air Operations Unit Leader	EH&S
221	Demobilization Checkout	Demobilization Unit Leader	EH&S
230	Daily Meeting Schedule	Planning Chief	EH&S
231	Special Meeting	Person Leading the Meeting	EH&S
232	Environmental Operations Plan (Resources at Risk Summary)	Environmental Unit Leader	EH&S
No Form #	General Plan	Planning Development Leader	EH&S
No Form #	Executive Summary	Planning Chief	EH&S
No Form #	Procurement Request	Logistics Chief	EH&S

Emergency Equipment Inspection/Drill Form

Generated from Oil Mop whoc assists with drill aand deployment.

3. Internal Exercise Documentation Forms

- Notification Exercise
- Emergency Procedures Exercise
- Spill Management Team Tabletop Exercise
- Equipment Deployment Exercise
- Triennienal Cycle Documentation Form

Appendix A: Internal Exercise Documentation Forms

The following sample documentation forms are provided to give plan holders an idea of how to document the internal PREP exercises. These sample forms, are provided only as guidance. Plan holders do not have to include all of the information presented on these forms nor do they have to use these exact forms. Plan holders may choose to develop their own forms. Documentation should be completed within 60 days of exercise completion. Documentation should include, as a minimum, the following information:

- The type of exercise;
- Date and time of the exercise;
- A description of the exercise;
- The objectives met in the exercise;
- The components of the response plan exercised; and
- Lessons learned along with procedures and schedules for implementing lessons learned.

Internal Exercise Documentation Form

Notification Exercise

1. Date performed: _____
2. Exercise or actual response? _____
3. Vessel/Facility/Pipeline/Offshore Facility initiating exercise: _____
4. Name of person notified _____
   Is this person identified in your response plan as qualified individual Or designee? _____
5. Time initiated: _____
   Time in which qualified individual or designee responded _____
6. Method used to contact:
   ____Telephone
   ____Pager
   ____Radio
   ____Other _____
7. Description of notification procedure:
   _____
   _____
   _____
   _____
   _____
8. Identify which of the 15 core components of your response plan were exercised during this particular exercise:
   _____
   _____
   _____
   _____

_____
Certifying Signature

Retain this form for a minimum of 3 years (for USCG/RSPA/MMS) or 5 years (for EPA).

For vessel qualified individual notification, ensure log entry is also made and retained for a minimum of 3 years.

Internal Exercise Documentation Form

Emergency Procedures Exercise

1. Date performed: _____
2. Exercise or actual response ? _____
   If an exercise, announced or unannounced? _____
3. Location: _____
4. Vessel/Barge/Facility name: _____
5. Time started: _____
   Time completed: _____
6. Sections of Vessel/Barge/Facility emergency procedures exercised (i.e., response to collision, response to oil spill on deck, response to vessel fire, etc.)? _____
   _____
   _____
   _____
7. Description of exercise: _____
   _____
   _____
   _____
8. Identify which of the 15 core components of your response plan were exercised during this particular exercise: _____
   _____
   _____
   _____
   _____
   _____

Emergency Procedures Exercise (continued)

9. Attach a description of lesson(s) learned, procedures and schedule for implementation, and person(s) responsible for follow up of corrective measures.

_____ _____
Certifying Signature

Retain this form for a minimum of 3 years (for USCG/RSPA/MMS) and 5 years (for EPA).

For manned vessels, ensure log entry is made and retained for 3 years.

Internal Exercise Documentation Form

Spill Management Team Tabletop Exercise

1. Date(s) performed: _____

2. Exercise or actual response? _____
If an exercise, announced or unannounced? _____

3. Location of tabletop: _____

4. Time started: _____
Time completed: _____

5. Response plan scenario used (check one):
_____Average most probable discharge
_____ Maximum most probable discharge
_____ Worst case discharge
_____ Size of (simulated) spill-bbls/gals

6. Describe how the following objectives were exercised:

a) Spill management team's knowledge of oil-spill response plan:
_____
_____
_____
_____
_____
_____

b) Proper notifications:
_____
_____
_____
_____
_____
_____

Spill Management Team Tabletop Exercise (continued)

c) Communications system:

d) Spill management team's ability to access contracted oil spill removal organizations:

e) Spill management team's ability to coordinate spill response with On-Scene Coordinator, state and applicable agencies:

f) Spill management team's ability to access sensitive site and resource information in the Area Contingency Plan:

Spill Management Team Tabletop Exercise (continued)

7. Identify which of the 15 core components of your response plan were exercised during this particular exercise:

8. Attach a description of lesson(s) learned, procedures and schedule for implementation, and person(s) responsible for follow up of corrective measures.

Certifying Signature

Retain this form for a minimum of 3 years (for USCG/RSPA/MMS) or 5 years (for EPA).

Spill Management Team Tabletop Exercise (continued)

c) Communications system:

d) Spill management team's ability to access contracted oil spill removal organizations:

e) Spill management team's ability to coordinate spill response with On-Scene Coordinator, state and applicable agencies:

f) Spill management team's ability to access sensitive site and resource information in the Area Contingency Plan:

Spill Management Team Tabletop Exercise (continued)

7. Identify which of the 15 core components of your response plan were exercised during this particular exercise:

8. Attach a description of lesson(s) learned, procedures and schedule for implementation, and person(s) responsible for follow up of corrective measures.

Certifying Signature

Retain this form for a minimum of 3 years (for USCG/RSPA/MMS) or 5 years (for EPA).

Internal Exercise Documentation Form

Equipment Deployment Exercise

1. Date(s) performed: _____

2. Exercise or actual response? _____
   If an exercise, announced or unannounced? _____

3. Deployment location(s):

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

4. Time started: _____
   Time OSRO/HSRO called_____
   Time on-scene_____
   Time boom deployed_____
   Time recovery equipment arrives on-scene_____

   Time completed: _____

5. Equipment deployed was:
_____Facility-owned
_____OSRO/HSRO-owned if so, which OSRO/HSRO?_____
_____Both

Equipment Deployment Exercise (continued)

6. List type and amount of all equipment (e.g., boom and skimmers) deployed and number of support personnel employed:

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

7. Describe goals of the equipment deployment and list any Area Contingency Plan strategies tested. (Attach a sketch of equipment deployments and booming strategies):

_____
_____
_____
_____
_____
_____
_____

8. For deployment of facility-owned equipment, was the amount of equipment deployed at least the amount necessary to respond to your facility's average most probable spill?

_____
_____

   Was the equipment deployed in its intended operating environment?

_____
_____
_____
_____
_____

Equipment Deployment Exercise (continued)

9. For deployment of OSRO/HSRO-owned equipment, was a representative sample (at least 1000 feet of each boom type and at least one of each skimmer type) deployed?

Was the equipment deployed in its intended operating environment?

10. Are all facility personnel that are responsible for response operations involved in a comprehensive training program, and all pollution response equipment involved in a comprehensive maintenance program? _____

If so, describe the program:_____

Date of last equipment inspection: _____

11. Was the equipment deployed by personnel responsible for its deployment in the event of an actual spill? _____

12. Was all deployed equipment operational? If not, why not?

13. Identify which of the 15 core components of your response plan were exercised during this particular exercise: _____

14. Attach a description of lesson(s) learned, procedures and schedule for implementation, and person(s) responsible for follow up of corrective measures.

_____
Certifying Signature

Retain this form and other documentation related to this exercise on file for a minimum of 3 years (for USCG/RSPA/MMS) or for a minimum of 5 years (for EPA).

Triennial CYLCLE Documentation FORM

	Year												Core Components															
	CY				CY				CY				Notification	Staff Mobilization	Operate in RMS	Discharge Contained	Assessment	Containment	Recovery	Protection	Disposal	Communications	Transportation	Personnel Support	Equipment Maint.	Procurement	Documentation
	Quarters				Quarters				Quarters																		
	1	2	3	4	5	6	7	8	9	10	11	12															
QI Notification																											
Emergency Procedures																											
SMT Tabletop																											
Equipment Deployment																											
OSRO/HSRO Equipment Deployment																											
Gov't-initiated Unnannounced																											
Area Exercise																											

For each quarter in which an exercise was completed, mark that with an "X" then mark each core component tested during an exercise.

6. Initial Notification Form

- Spill / Gas Release Report

Harvest PL

Hilcorp Energy Company Corp. Office
1201 Louisiana St., Suite 1400
Houston, TX 77002

SWP 24 TERMINAL

Hilcorp Energy Company

SPILL / GAS RELEASE REPORT

Is this an HEC Spill? _____ HEC Supervisor _____
Signature

Date:	Time:	HEC Personnel who verified spill:		
Fluid Type / Estimated Volume	Oil / Condensate (circle one) bbls:		Gas: mcf:	Field:
	Saltwater: bbls:		Other:	Precise Location/GPS Cord:
Temp:	Wind Direction:		Wind Speed:	Wave Height:
Current Conditions:				
Probable Cause of Incident / Initial Action Taken:				
Physical Description of Impacted Area:				

Notification	Phone No.	Time Notified / Incident # / Name	Notification	Phone No.	Time Notified / Incident # / Name
Oil Mop			TX RRC District 1&2	210-227-1313	
Anderson	281-479-5300		TX RRC District 3	713-869-5001	
AMPOL	800-482-6765		TX RRC District 4	361-242-3113	
US Environmental	281-867-4100		TX RRC District 5&6	903-984-3026	
ES&H	877-437-2634		TX RRC Pipeline	512-463-7194	
Global Pollution Serv	337-478-4181		MS DEQ	800-222-6362 601-961-5171	
Clean Gulf Assoc	888-242-2007		MS O&G Board	601-354-7142	
EPA	214-655-6222		MS Emer Board	601-352-9100	
National Resp Cntr	**800-424-8802**		MS State Police	601-987-1530	
USCG - N.O.	504-589-6261		AL Dept of Env	334-260-2700	
USCG - M.C.	985-380-5320		AL O&G Board	205-349-2852 334-438-4848	
USCG - L.C.	337-491-7800		LA State Police / DEQ	225-925-6595	
USCG – B.R.	225-298-5400		LA Office of	225-342-5540	
USCG - Houma	985-851-1692		LOSCO	225-219-5800	
TX General Land Office	800-832-8224		Local Emergency	911	
TX RRC Accident	512-463-6788		LA Pipeline Safety	225-342-5505	
TCEQ	800-832-8224				
MMS Pipeline Safety	504-736-2814 504-452-3562				

Injuries or Evacuations? Explain
Damage to Marsh/Wildlife/Land/Property? Explain
Response & Clean-up/Remedial Activities:

Harvest PL

Name	(b) (6)	Pager/Other	Mobile	Time
Michael Lopez - Asset Oper Mgr			713-569-2363	
Ashley Washington – EH&S		979-482-4249	979-482-4249	
Rob Kennedy – Area Supervisor			225-933-6944	
Stephen Whiteley - Oper Engineer		713-289-2847	832-341-2597	
Stacy Beach – Area Supervisor South TX		713-289-2895	713-628-1611	
Brad Nauman – Area Supervisor Olc/Ocean		979-291-7373	979-482-1849	
Rick Edwards - Lead Field Operator		361-526-2202 x272	361-877-3377	
Harvey Land - Plant Mgr		979-548-2144	979-482-0548	
Mike Schoch - Env/Safety Mgr			713-816-6350	
Henri deLaunay - Env Coord			713-824-8153	
Cory Johnson - Env Coord			713-791-3563	
James Coulter - Safety Coord			713-724-2613	
Shawn Kelley - Field EH&S Coord			337-303-1595	
Lance Melancon -Field EH&S Coord			985-860-7901	

The following are considered reportable incidents:

SPILLS:

*A reportable spill shall be deemed any liquid spill greater than or equal to one barrel (state) on land or causes a sheen on the water. Note: Any spill less than one barrel should be reported to the Supervisor.

*All gas pipeline leaks or ruptures which could cause harm or damage to the environment, people or wildlife.

*Any other incident which you deem could cause harm to people or the environment.

The following steps should be taken immediately:

1. Eliminate the source of the problem (spill / leak)
2. Contain the problem.
3. Notify appropriate Federal/State/Local Authorities.
4. Notify appropriate HEC personnel.
   i. Area HEC Supervisor
   ii. Operations Manager
   iii. Environmental/Safety Department

All of the above Hilcorp personnel are to be notified

Use corporate address for all reporting responses - 1201 Louisiana St., Suite 1400, Houston, TX 77002

FIELD STAFF MEDIA MANAGEMENT PROTOCOL:

- In the event of an incident or on-site media inquiry, field employees should immediately refer to the Hilcorp media policy to ensure full compliance.
- This policy states that no Hilcorp employee is authorized to answer questions or provide any information to a reporter without the approval of Michael Schoch - Director of Regulatory, Environmental and Safety or the designated alternate, Henri deLaunay - Environmental Manager.
- All media inquiries should immediately be referred to Michael Schoch at (713) 816-6350 (cell) or (713)-209-2400 (office), the designated alternate, Henri deLaunay, at (713) 824-8153 (cell) or (713) 209-2400 (office).
- One Hilcorp employee on-scene should be designated by Michael Schoch to speak to arriving or inquiring media and refer
  them to the appropriate corporate spokesperson (see above instruction).
- The following language is recommended for ensuring a clean and prompt handoff of media inquiries:

"The appropriate Hilcorp contact for all media questions is Michael Schoch. He may be reached at his office at (713) 209-2400, or on his cell *phone at (713) 816-6350. He will have all the details and will be your best source of information."*

- In response to any follow-up questions from reporters or requests for comment from on-scene employees, the above statement should be re-stated as needed.

Appendix C

In This Section

1. MSDS Crude Oil

1. MSDS Crude Oil

HILCORP ENERGY COMPANY
1201 LOUISIANA, SUITE 1400
HOUSTON, TEXAS 77002

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION

PRODUCT NAME: Crude Oil **SYNONYMS:** Petroleum Oil, Crude

CHEMICAL NAME: Petroleum Crude Oil
CHEMICAL FAMILY: Petroleum Hydrocarbon

SECTION II: GENERIC COMPOSITION / COMPONENTS

COMPONENT	CAS#	%	OSHA PERMISSIBLE EXPOSURE LIMIT / ACGIH THRESHOLD LIMIT VALUE
Crude Oil	8002-05-9	100	None Established
Naturally occurring components include:			
Benzene	71-43-2	< 2	PEL: 1 ppm, STEL: 5 ppm TLV: 0.5 ppm, STEL: 2.5 ppm
Hydrogen Sulfide	7783-06-4	< 1	PEL: Ceiling 20 ppm TLV: 10 ppm, STEL: 15 ppm

Complex mixture of paraffinic, cycloparaffinic, and aromatic hydrocarbons. Can contain minor amounts of sulfur, nitrogen and oxygen containing organic compounds as well as trace amounts of heavy metals such as nickel and vanadium. Composition varies depending on source of crude.

SECTION III: SUMMARY OF HAZARDS

WARNING! FLAMMABLE LIQUID AND VAPOR. MAY CONTAIN HYDROGEN SULFIDE – MAY BE FATAL IF INHALED. MAY CAUSE DELAYED LUNG INJURY. CAN CAUSE NERVOUS SYSTEM DEPRESSION. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CANCER HAZARD – CONTAINS BENZENE. CAN CAUSE KIDNEY, LIVER AND BLOOD DISORDERS. Keep away from heat, sparks and flame. Avoid breathing vapors. Use ventilation adequate to keep vapor below recommended exposure limits. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

NFPA HAZARD RATING LEAST-0; SLIGHT-1; MODERATE-2; HIGH-3; EXTREME-4
HEALTH 1 FLAMMABILITY 3 REACTIVITY 0

SECTION IV: PHYSICAL / CHEMICAL DATA

BOILING POINT <100-200° F
VAPOR DENSITY (AIR=1) >1
VOLATILES BY VOLUME <50
SOLUBILITY IN H20 (% BY WT) Negligible
EVAPORATION RATE (BUTYL ACETATE=1) >1
APPEARANCE AND COLOR Brown to black liquid.
ODOR May range from mild sweet aromatic odor to pungent odor to offensive or strong sulfurous odor.

SPECIFIC GRAVITY (60/60F) (H20=1) 0.8-1.0
VAPOR PRESSURE, Reid (100F) 0.6-10
SOFTENING POINT, C (F) N/A

SECTION V: FIRE AND EXPLOSIVE HAZARDS

FLASH POINT/METHOD: 20-200F/PMCC AUTOIGNITION: 500-850° F
FLAMMABLE LIMITS (% VOLUME IN AIR): LEL 0.6 UEL 15

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: Use dry chemical, carbon dioxide, or foam as extinguishing media. Water may be ineffective to extinguish flame but is to be used to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Water spray may be used to flush spills away from areas of potential exposure. Prevent runoff from fire control or dilution from entering sewers or waterways.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Vapors heavier than air could travel, be ignited by other ignition sources and flash back. Products of combustion may contain carbon dioxide, carbon monoxide and various hydrocarbon compounds. Do not enter enclosed or confined space without a self contained breathing apparatus and other protective equipment.

STORAGE: Keep container grounded, tightly closed and away from heat and strong oxidizers (NFPA Class IB Flammable). Do not store with strong oxidizers. Empty containers may contain product residue, which could produce flammable or explosive vapors.

SECTION VI: HEALTH HAZARD AND FIRST AID INFORMATION

PRIMARY ROUTES OF EXPOSURE / ENTRY: SKIN / INHALATION

ACUTE EXPOSURE SYMPTOMS:

SKIN CONTACT: Irritation

INHALATION: May cause headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions and loss of consciousness. Hydrogen sulfide paralyzes the respiratory system rapidly causing

unconsciousness and death; may cause loss of sense of smell; immediately dangerous to life concentration is 700 ppm.

EYE CONTACT: Irritation.

INGESTION: Possible burning of mouth and gastrointestinal disturbances. May cause vomiting and diarrhea, depression of the central nervous system, sedation, coma, pneumonitis, pulmonary edema.

CHRONIC EXPOSURE SYMPTOMS:

SKIN: Drying, cracking, redness, itching, burning, or inflammation of skin (Dermatitis).

INHALATION: May cause respiratory tract irritation, central nervous system, kidney, liver and blood disorders. Benzene has been classified as a carcinogen, and may produce blood disorders including anemia and leukemia.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, kidney, liver and blood disorders.

NOTE TO PHYSICIAN: THIS IS A LOW VISCOSITY MATERIAL. HIGH POSSIBILITY OF PULMONARY ASPIRATION, POSSIBLY PRODUCING LIPOID PNEUMONIA IF SWALLOWED AND VOMITING OCCURS. IF NECESSARY, USE CAREFUL GASTRIC LAVAGE WITH TIGHT FITTING, CUFFED ENDOTRACHEAL TUBE.

HEALTH HAZARD CLASSIFICATION:
CORROSIVE NO IRRITANT YES SENSITIZER NO
HIGHLY TOXIC NO TOXIC YES
16 OZ. MAY BE LETHAL ORAL DOSE FOR 150 LB. HUMAN. LIFETIME SKIN PAINTING STUDIES HAVE INCREASED THE INCIDENCE OF SKIN CANCER AND TUMORS IN LABORATORY ANIMALS. NOT EXPECTED TO HAVE AN EFFECT ON HUMANS IF GOOD HYGIENE MAINTAINED.

PRODUCT LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY:
NTP NO IARC NO OSHA NO

FIRST AID PROCEDURES:

SKIN CONTACT: Immediately remove contaminated clothing and wash skin with soap and water. Launder clothing before wearing again. Get medical attention promptly.

INHALATION: Remove exposed person to fresh air. If breathing has stopped, perform artificial respiration. Get medical attention promptly.

EYE CONTACT: Immediately flush eyes for a minimum of 15 minutes, occasionally lifting the lower and upper lids. Get medical attention promptly.

INGESTION: Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call physician immediately.

SECTION VII: REACTIVITY DATA

STABILITY: Stable __X__ Unstable ____

CONDITIONS AND MATERIALS TO AVOID: Undue exposure to air, oxidizing materials, all sources of ignition. Material is incompatible with strong acids and caustics.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Not Applicable

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SECTION VIII: SPILL OR LEAK PROCEDURES

PROCEDURES IF MATERIAL IS SPILLED: Material is flammable. Remove all sources of ignition. Advise National Response Center (1-800-424-8802) if spill enters a watercourse.

-SMALL SPILLS: Take up with non-combustible absorbent material. Place into containers for later disposal.

-LARGE SPILLS: Contain spill immediately in smallest possible area (ex. earthen dikes). Recover as much of the product as possible by such methods as vacuuming, followed by recovering residual fluids by using absorbent materials. Control ignition sources around spill area. Nonrecoverable product, contaminated soil, debris and other materials should be placed in proper containers for ultimate disposal. Avoid washing, draining or directing materials to sanitary sewers.

WASTE DISPOSAL: Recycle as much of the recoverable product as possible. It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Treatment, storage, transportation and disposal must be in accordance with applicable federal, state, and local regulations.

SECTION IX: SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: Use sufficient ventilation to maintain air concentrations below regulatory limits. Select appropriate NIOSH approved respiratory protection where necessary (determined by potential exposure and published respiratory protection factors). For unknown concentration or fire fighting use self-contained breathing apparatus with positive pressure.

PERSONAL PROTECTIVE EQUIPMENT:

EYES: Safety glasses, chemical goggles or face shield as appropriate.

SKIN: Gloves: Nitrile, neoprene or other material resistant to crude oil. Flame retardant clothing.

ADDITIONAL PROTECTIVE MEASURES: While loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygiene personnel to determine air concentrations. Know the location of eye wash stations and safety showers.

SECTION X: DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

PROPER SHIPPING NAME PETROLEUM CRUDE OIL
HAZARD CLASS FLAMMABLE LIQUID 3
HAZARD IDENTIFICATION NUMBER UN 1267
PLACARD FLAMMABLE
PACKAGING EXCEPTIONS / RESTRICTIONS REFER TO 49CFR 172.101
PACKING GROUP II

SECTION XI: ENVIRONMENTAL INFORMATION

SARA TITLE III:

SECTION 313 - TOXIC CHEMICALS

COMPONENTS	CAS#	%
Benzene	71-43-2	<2
Toluene	108-88-3	<3
Xylene	1330-20-7	<6
Cyclohexane	110-82-7	<1
Ethylbenzene	100-41-4	<1
Cumene	98-82-8	<1
1,2,4 Trimethylbenzene	95-63-6	<1
Napthalene	91-20-3	<1

SECTION 311 - HAZARD CATEGORIES

SUDDEN PRESSURE RELEASE NO FIRE HAZARD YES REACTIVITY NO
ACUTE (IMMEDIATE HEALTH HAZARD) YES
CHRONIC (DELAYED HEALTH HAZARD) YES

SECTION 304 - EXTREMELY HAZARDOUS SUBSTANCES
Hydrogen Sulfide CAS 7783-06-4 <1% RQ-100

TOXIC SUBSTANCES CONTROL ACT, 40 CFR 710
This material is listed on the TSCA inventory of chemical substances.

RESOURCE CONSERVATION AND RECOVERY ACT, 40 CFR 261
This material is not listed but is subject to characteristic testing if discarded or spilled. If it tests hazardous, 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT: Under Section 311(b)(4) of CWA, discharges of crude oil and petroleum products that may cause a film or sheen upon or discoloration of the water surface or adjoining shoreline must be immediately reported to the National Response Center (1-800-424-8802).

COMPREHENSIVE, ENVIRONMENTAL, RESPONSE, COMPENSATION & LIABILITY ACT (CERCLA), SECTION 102 - HAZARDOUS SUBSTANCES: Petroleum and petroleum fractions are currently excluded from the list of CERCLA hazardous substances, by Section 101(14).

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Appendix D

In This Section

1. Contracts and Equipment

1. Contractual Agreements & Equipment

Proof of any contractual agreements or membership agreements with OSROs, cooperatives, spill-response service providers, or Spill Management Team members who are not employees that are cited in the plan are provided below along with support equipment.

AMPOL

September 28, 2010
Hilcorp
(b) (7)(F) [redacted]

Subject: 24 Hour Response Letter

As per your request, the purpose of this letter is to confirm you that American Pollution Control Corp. (AMPOL), a full service environmental contractor, will report and continue to provide Hilcorp, oil spill response services, contingent upon AMPOL availability, on a 24-hour per day basis, onshore near shore only.

AMPOL has offshore equipment to meet offshore OSRO status. This letter grants only AMPOL land and inland use of AMPOL's OSRO to cover the above client for their required plan purposes.

AMPOL can provide offshore OSRO services, by contract if requested.

The following can be reached at the designated numbers:

NAME	OFFICE NUMBER
EMERGENCY SPILL LINE	800-482-6765
AMPOL OFFICE LINE	337-365-7847
Kirk Headley	337-519-8071 (Mobile)
Mat Theriot	985-300-4909 (Mobile)
Eric Lyons	337-519-8070 (Mobile)

AMPOL can deploy equipment annually in accordance with the PREP Guidelines.

AMPOL's main office located in The Port of Iberia (New Iberia, LA). Branch Division in Harvey, LA.

All personnel are trained in NRC, CGA/MSRC Equipment.

Our personnel are trained in compliance with OSHA (29 CFR part 1910-120).

If you require any additional information, or if we may be of any assistance in any way, please do not hesitate to contact any one of us at 337-365-7847.

Sincerely,

Kirk Headley
AMPOL

Alphabetical OSRO Classifications by Company

0102 American Pollution Control, Inc.

		Facilities				Vessels			
COTP: HOUSTON-GALVESTON		MM	W1	W2	W3	MM	W1	W2	W3
☑ High Volume Port	River/Canal	☐	☐	☐	☐	☑	☐	☐	☐
	Inland	☐	☐	☐	☐	☑	☐	☐	☐
	Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: JACKSONVILLE		MM	W1	W2	W3	MM	W1	W2	W3
☐ High Volume Port	River/Canal	☐	☐	☐	☐	☑	☐	☐	☐
	Inland	☐	☐	☐	☐	☑	☑	☐	☐
	Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: JACKSONVILLE(PORT CANAVERAL, FL)		MM	W1	W2	W3	MM	W1	W2	W3
☐ High Volume Port	River/Canal	☐	☐	☐	☐	☑	☐	☐	☐
	Inland	☐	☐	☐	☐	☑	☑	☐	☐
	Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: KEY WEST		MM	W1	W2	W3	MM	W1	W2	W3
☐ High Volume Port	River/Canal	☐	☐	☐	☐	☑	☐	☐	☐
	Inland	☐	☐	☐	☐	☑	☑	☐	☐
	Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: MIAMI		MM	W1	W2	W3	MM	W1	W2	W3
☐ High Volume Port	River/Canal	☐	☐	☐	☐	☑	☐	☐	☐
	Inland	☐	☐	☐	☐	☑	☑	☐	☐
	Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: MOBILE		MM	W1	W2	W3	MM	W1	W2	W3
☐ High Volume Port	River/Canal	☑	☐	☐	☐	☑	☐	☐	☐
	Inland	☑	☑	☐	☐	☑	☑	☐	☐
	Open Ocean	☐	☐	☐	☐	☑	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: MOBILE(PANAMA CITY, FL)		MM	W1	W2	W3	MM	W1	W2	W3
☐ High Volume Port	River/Canal	☑	☐	☐	☐	☑	☐	☐	☐
	Inland	☑	☑	☐	☐	☑	☑	☐	☐
	Open Ocean	☐	☐	☐	☐	☑	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

Alphabetical OSRO Classifications by Company

COTP: MORGAN CITY

☐ *High Volume Port*

	Facilities				Vessels			
	MM	W1	W2	W3	MM	W1	W2	W3
River/Canal	☑	☐	☐	☐	☑	☐	☐	☐
Inland	☑	☑	☐	☐	☑	☑	☐	☐
Open Ocean	☐	☐	☐	☐	☑	☐	☐	☐
Offshore	☐	☐	☐	☐	☐	☐	☐	☐
Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

COTP: NEW ORLEANS

☑ *High Volume Port*

	Facilities				Vessels			
	MM	W1	W2	W3	MM	W1	W2	W3
River/Canal	☑	☐	☐	☐	☑	☐	☐	☐
Inland	☑	☑	☐	☐	☑	☑	☐	☐
Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
Offshore	☐	☐	☐	☐	☐	☐	☐	☐
Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

COTP: PORT ARTHUR

☑ *High Volume Port*

	Facilities				Vessels			
	MM	W1	W2	W3	MM	W1	W2	W3
River/Canal	☑	☐	☐	☐	☑	☐	☐	☐
Inland	☑	☐	☐	☐	☑	☑	☐	☐
Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
Offshore	☐	☐	☐	☐	☐	☐	☐	☐
Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

COTP: SAVANNAH

☐ *High Volume Port*

	Facilities				Vessels			
	MM	W1	W2	W3	MM	W1	W2	W3
River/Canal	☐	☐	☐	☐	☑	☐	☐	☐
Inland	☐	☐	☐	☐	☑	☑	☐	☐
Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
Offshore	☐	☐	☐	☐	☐	☐	☐	☐
Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

AMERICAN POLLUTION CONTROL, CORP.

2010 SCHEDULE OF RATES

REVISION 2

2010 Schedule of Rates

A. Personnel Description	Standard	Hazmat		Standard
Project Manager	$100.00	$150.00	Asbestos Inspector/NORM Surveyor	$50.00
Project Office Coordinator	$50.00	$50.00	Insulator Foreman	$45.00
Supervisor	$55.00	$65.00	Insulator Metal Man	$35.00
Foreman	$45.00	$55.00	Insulator	$35.00
Equipment Operator	$40.00	$50.00	Insulator Helper	$30.00
Pollution Control Technician	$35.00	$50.00	Safety Officer/RSO	$55.00
Project Consultant	$120.00		Field Accountant	$35.00
Laborer	$30.00		Field Secretary	$28.00
Mechanic	$40.00	$45.00	Instructor	$40.00

Personnel charges for inshore work shall be at an eight-hour minimum. Offshore work shall be at a twelve-hour minimum. All inshore time after eight hours per day, on weekends, or holidays will be invoiced at one and one half times the hourly rates quoted.

All personnel charges are from shop to shop per occurrence. In the event AMPOL's personnel are required to standy on site (or in the area if more than fifty miles from AMPOL's facility), the eight hour minimum inshore and twelve hour minimum offshore shall apply.

Subsistence and lodging , if not provided by Company, will be invoiced at $95.00 per man per day, or at a predetermined and agreed to rate reasonable for the specific area.

Personnel rates may be influenced by outside sources such as labor unions and/or prevailing wage requirements. Such instances shall be discussed and agreed to prior to commencement of work in these areas.

Equipment rates are per calendar day and shall be invoiced shop to shop.

In the event of damage to AMPOL's equipment through no fault of our own, repair or replacement shall be invoiced at cost plus 20 %.

B. RESPIRATORY PROTECTION EQUIPMENT	Rates
Half Face APR, Per Day	$20.00
Full Face APR, Per Day	$40.00
Powered APR Respirator, Per Day	$50.00
Full Face SAR with 5-minute egress, Per Day	$70.00
30 Minute S.C.B.A., Per Day	$100.00
Supplied Air System (Breather Box only, No SARs or Compressor included), Per day	$200.00
30 Minute SCBA Refills, Each	$20.00
5 Minute Escape Bottle Refills, Each	$20.00
300 Cubic Foot Cylinder Refills, Each	$50.00
Hepa Filter Cartridge, Pair	$15.00
Organic Vapor Filter Cartridge, Pair	$15.00
Acid Gas Filter Cartridge, Pair	$15.00
HEPA/Organic Gas Stacked Filter Cartridge, Pair	$20.00
Powered Air Purifying Resp. Filters, Pair	$25.00
Respirator Wipes, Per Pack	$15.00

C. ANALYTICAL EQUIPMENT	Rates
Air Sample Pump (Drager/Sensidyne/Rae), Per Day	$50.00
Survey Meter (Scintillator), Per Day	$75.00
Survey Meter (Geiger Muler), Per Day	$75.00
Personal Air Pump, Per Day	$50.00
Air Monitor Cassette, Each	$10.00
High Volume Sample Pump, Per Day	$150.00
Personal Dosimeter Badges, Per Day	$5.00
Laser Therometer	$50.00
Negative Pressure Recorder, Per Day	$50.00
Area Air Monitoring Pump, Per Day	$75.00
HNU Organic Vapor Analyzer, Per Day	$200.00
Explosometer LEL/02 Analyzer, Per Day	$125.00
pH Paper, Per Box	$25.00
Air Sample Tubes (Individual Tubes), Each	$20.00
Air Sample Tubes (Simultest Individual Stage), Each	$100.00
Spill Sample Kit, Each	$75.00
Collinator	$20.00

D. INDUSTRIAL / HEAVY EQUIPMENT

Vessels	Rates
110 OSRV, OSV, Rescue Vessel and Fire Fighting Capable, Per Day + Fuel, Lube, and Subsistence	$4,500.00
14' Response Boat & Motor, Per Day	$125.00
22' Response Boat & Motor, Per Day	$225.00
26' - 30' Barge Boat with Twin Motor, Per Day	$750.00

Air Compressors	Rates
Tool Air Compressor - (10 to 25 cfm), Per Day	$80.00
Tool Air Compressor (26 to 185 cfm), Per Day	$200.00
Tool Air Compressor (186 to 375 cfm), Per Day	$300.00
Air Tool Hose (1" x 50'), Per Day	$10.00
Water Trap, Per Day	$20.00

Pumps	Rates
Acid Pump and Hoses, Per Day	$300.00
Pump, Trash or Sludge, 2" Per Day	$100.00
Pump, Trash or Sludge, 3" Per Day	$125.00
Pump, 3" Diesel Diaphragm, Per Day	$125.00

Material Handling Equipment	Rates
Forklift, Hourly	$30.00
Backhoe, Per Day	$300.00

Up to 4" Suction or Discharge Hoses, Per Foot, Per Day $1.50

Trailers	Rates
Project Office Trailer	$100.00
Equipment Storage Trailer (20'), Per Day	$50.00
Flatbed Equipment Trailer (42'), Per Day	$125.00
Utility Trailer (16' to 25"), Per Day	$50.00
Response Trailer, Per Day	$200.00
Disposal Trailer, Per Day	$100.00
Haz Mat Trailer, Per Day	$425.00
Semi-Boom Storage Trailer (Per Day)	$250.00
Oil Boom	**Rates**
18" Containment Boom, Per Foot, Per Day	$1.50
10" Containment Boom, Per Foot, Per Day	$0.75
30" Expandi Boom, Per Foot, Per Day	$3.00
43" Expandi Boom, Per Foot, Per Day	$5.00
5' Silt Curtain, Per Foot, Per Day	$3.00
Boom Anchors up to 25 lbs., Per Day, Each	$20.00
Boom Anchors 26 to 50 lbs., Per Day, Each	$40.00
Boom Anchors 51 to 100 lbs., Per Day, Each	$60.00
Boom Lights, Per Day, Each	$10.00
Norwegian Anchor Buoys, Per Day, Each	$5.00

Skimmers	Rates
Vikoma SS 50, Per Day	$750.00
GT 185, Per Day	$500.00
GT 260, Per Day	$750.00
LAMAR Dual Cassette, Per Day	$1,000.00
Walosep W 1, Per Day	$400.00
Walosep W 3, Per Day	$500.00
Walosep W 4, Per Day	$750.00
Hydraulic / Pneumatic Drum Skimmer, Per Day	$500.00
Skim Pac Hand Held Skimmer, Per Day	$125.00
Rope Mop Skimmer, Per Day	$500.00
Marco Shallow Water Skimmer, Per Day	$3,500.00
Replacement Marco Pads	$3,500.00
Expandi Roto Pack & Turntable, Per Day	$500.00
Expandi 4300 Boom Reel, Per Day	
With 2,600 of 4300 Boom not deployed	$750.00
Moss Unit, Per Day (Includes crane & 1 tank)	$750.00
Hydraulic Unit, Per Day	$500.00

AMPOL has the ability to provide other various sizes of containment booms. Prices shall be quoted upon request.

Miscellaneous Equipment	Rates
Portable Cellular Phone, Per Day	$50.00
Satellite Cell Phone, Per Day	$100.00
Digital Camera, Per Day	$50.00
Lap Top Computer, Per Day	$100.00
Air Card, Per Day	$50.00
Hand Held Radio (UHF), Per Day	$25.00
VHF Radio Per Unit, Per Day	$25.00
Portable Shower, Per Day	$50.00
Bulk Water Filtration System, Per Day	$150.00
Cut Off Saw, Per Day	$75.00
Burning Rig, Per Day	$100.00
Chain Saw, Per Day	$50.00
Pneumatic Hand Tools (Air Impact, Grinder, Chipper, Sawzall), Per Day, Each	$50.00
Weed Wacker, Weed Tiller, Weed Eater, Per Day	$50.00
Portable Steam Pressure Washer(3k to 5k), Per Day	$200.00
Decon Pool, Per Day	$250.00
Decon Tub, Per Day	$40.00
Explosion Proof Lights, Per Day	$50.00
Non Sparking Tools, Per Item, Per Day	$50.00
Explosion Proof Blower Motor, Per Day	$150.00
Air Horn, Per Day	$50.00
Roto Pin (With Hepa Attachment, Per Day	$100.00
Needle Gun (with Hpa Attachement, Per Day	$100.00
Vacuum Grinder (with Hepa Attachement, Per Day	$100.00
Drum Vacuum, Per Day	$100.00
Hepa Vacuum, Per Day	$100.00
Negative Air Machine, Per Day	$75.00
Garden Sprayer, Each, Per Day	$20.00
Airless Sprayer, Per Day	$100.00
2 Gallon Paint Pot, Per Day	$20.00
Fluid Hose	$20.00
Paint Air Hose / 50' Per Day	$20.00
Paint Gun, Per Day	$20.00
Air Mixer, Per Day	$25.00

	Rates
Hand Tools (Shovels, rakes, etc.), Per Day	$20.00
Cordless Drill, Per Day	$50.00
Extension Ladder, Per Day	$20.00
Toolbox, Per Day -	$50.00
Helicopter Dispersant Spray Bucket, Per Day	$1,000.00
Boat Dispersant Spray System, Per Day	$750.00
ATV, Per Day	$150.00
ATV Disks, Per Day	$150.00
Ground Fault Interrupter, Per Day	$25.00
Extension Cord, (50' Per Day)	$10.00
Generator 5KW, Per Day	$125.00
Generator 10 KW / Welding Unit, Per Day	$200.00
Generator 60 KW, Per Day (Plus Fuel)	$300.00
Confined Space Rescue System (Winch, Tripod, Fall Arrestor), Per Day	$200.00
Full Body Harness with Lanyard, Per Day	$25.00
2000 Gallon Storage Tank, Per Day	$200.00
750 Gallon Storage Tank, Per Day	$100.00
250 Gallon Storage Tank, Per Day	$50.00
150 # Chemical Fire Extinguisher (Two (2) required with Moss Unit), Each, Per Day	$150.00
20# Chemical Fire Extinguisher, Each, Per day	$20.00
Bird Scare Away Guns, Per Day, Each	$50.00
Sand Blast Nozzle, Per Day	$20.00
600 Sand Blast Hopper, Per Day	$200.00
Sandblast Hose, Per Day	$20.00
Sandblast Hood, Per Day	$40.00
Norm Boring Machine, Per Day	$500.00
Norm Rattling Machine, Per Day	$500.00
Water Hose, (50' Per Day)	$10.00
Metal Roller, Per Day	$35.00
Metal Cutter, Per Day	$50.00
Metal Breaker, Per Day	$20.00
Bead and Crimper, Per Day	$35.00
Scaffolding, Per Bulk, Per Day	$50.00

E. MISCELLANEOUS CONSUMABLES

In the event the actual cost exceeds the price listed below, cost plus 20 % will be charged. Materials not listed will be invoiced at cost plus 20%.

PPE	Rates
Poly-propylene Suits (Disposable), Each	$8.00
Poly-coated Tyvek Suits, Each	$15.00
Fire Retardant Poly Coated Suits, Each	$25.00
Saranex Coated Suits, Each	$25.00
Slicker Suits, Each	$28.00
Nitrile Gloves, Per Pair	$10.00
Latex Gloves, Per Pair	$2.00
Cotton Gloves, Per Pair	$10.00
Steel-Toe Rubber Boots, Per Pair	$50.00
Waders, Each (One time charge)	$80.00
Heat Stress Relief (ice, gatorade),Per Day, Per Man	$10.00
Cooling Towels (case per 10 towels)	$71.50

Absorbants	Rates
Sorbent Boom (8"), Per Bale	$180.00
Sorbent Boom (5"), Per Bale	$120.00
Sorbent Pads 17"x19'x3/8 100 Sheets, Per Bale	$69.50
Roll 38"x144' 3/8 Roll, Per Bale	$165.00
Sweeps 17" x 100' 3/8 Roll, Per Bale	$89.00
30 Count Box Pom-Pom Snares, Per Box	$69.50
Sorbent Snares, Per Box	$69.50
Gator Sorb/CeluSorb, Per Bag	$36.00
Industrial Felt 3/8" x 144' Roll, Per Roll	$165.00

Miscellaneous	Rates
1/2" Poly Rope (600), Per Roll	$75.00
1/4" Poly Rope (1200), Per Roll	$75.00
Caution Tape, Per Roll	$15.00
Degreaser, Per Gallon	$25.00
Disposable Bags, Per Roll	$85.00
Disposal Towels, Per Case	$45.00
DOT 95 Gal. Overpack Drum, Per Day (Rental)	$20.00
DOT 95 Gal. Overpack Drum, Each (Purchase)	$250.00
55 Gallon DOT Drum	$95.00
Duct Tape, Per Roll	$8.00
Encapsulant, Per Gallon	$45.00
Flex Duct, Each	$80.00
Glove Bags, Per Case	$225.00
Drum Dolly (per day)	$75.00
First Aid Trauma Bag	$60.00

Miscellaneous	Rates
Hepa Vac. Filters, Each	$250.00
Mastic Remover, Per Gallon	$30.00
Neg. Air Filter, HEPA, Each	$195.00
Neg. Air Filter, Primary, Each	$40.00
Neg. Air Filter, Secondary, Each	$40.00
Personal Decon Soap, Per Gallon	$25.00
Polyetheylene (6-mil), Per Roll (100' x 20')	$95.00
Reinforced Poly, Per Roll	$200.00
Spray Adhesive, Per Can	$10.00
Surfactant, Per Gallon	$45.00
Tie Wire, Per Roll	$5.00
Warning Signs, Per Sign	$10.00
Water Filters (30 & 5 Micron), Each	$18.00
Transportable Truck Crane, Per Hour	$125.00

F. TRANSPORTATION CHARGES

	Rates
One Ton Crew Cab, Per Day, Each	$150.00
Mechanic Tool Truck	$200.00

Mileage shall be charged for all vehicles at .95 per mile.
Third party transportation, or any special licenses or fees required shall be billed at cost plus 20%.

G. THIRD PARTY CHARGES

All third party services provided by AMPOL at the Company's request or needed in the course of the work will be invoiced at cost plus 20%. Whenever a cost plus billing is submitted by AMPOL, a copy of the actual or recent sample invoice from the supplier will accompany our invoice for cost verification purposes.

Third party analytical, samples at cost (+) 20%.

Equipment Fuel at cost (+) 20%.

H. INTERNATIONAL QUALIFICATIONS

All air fare, per diem, travel expenses, medical expenses, visas, work permits, port fees, dock crane services, custom fees, and agent fees shall be provided by AMPOL at cost plus 20%. Should corporate and/or personnel income tax be incurred in the country of operation, the taxes will be invoiced at cost plus 20 %.

Adequate and safe storage for AMPOL's equipment and supplies on vessel (s) or on land will be provided by Company at no cost to AMPOL.

All work orders are subject to client providing evidence of insurance and payment arrangements acceptable to AMPOL.

Prior to mobilization, a written agreement shall be exchanged to include indemification. An AMPOL standard "Blanket Service Contract" may be utilized for the written agreement.

I. ASBESTOS SAMPLES

Samples $25.00 per sample, minimum three (3) samples and shipping charges and cost + 20%.

K. NORM AIR SAMPLES

NORM Air Samples will be charged at $100.00 per sample with a three (3) day turnaround plus shipping.

Facility Response Plan
Volume II_ Appendix D_Contracts & Equipment

Revised 09-28-2010

Hilcorp Energy Company
Regulatory Compliance

OIL MOP, LLC

131 KEATING DRIVE
BELLE CHASSE, LA 70037

PHONE (504) 394-6110
FAX (504) 392-8977

OIL MOP, LLC
The Total Solution
www.oilmop.com

November 11, 2009

Hilcorp Energy Company
1201 Louisiana Street
Houston, Tx. 77002
Attn: Cory Johnson

RE: Letter of Intent – Agreement for Emergency Spill Response

Dear Mr. Johnson,

Thank you for the opportunity to be of service to Hilcorp Energy Company. ***Oil Mop LLC (Oil Mop)*** can provide emergency response services to all of the Hilcorp Louisiana facilities on a 24 hour basis. All of our response resources are listed within our United States Coast Guard ("USCG") Oil Spill Removal Organization ("OSRO") Classification. Our resources are maintained and exercised annually in accordance with the USCG PREP and OPA 90 readiness guidelines ***Oil Mop*** is listed as an MM through W3 Company with the USCG. Per 33 CFR 154.1045 paragraph (c)(1) and (c)(2), all time and equipment requirements will be met for the worst-case discharge.

All of ***Oil Mop's*** response resources, maintenance and training records are available for inspection by Customer upon request. ***Oil Mop*** will provide response services to Customer on an immediate basis. In the event ***Oil Mop*** is unable to provide immediate response services for any reason whatsoever, ***Oil Mop*** will subcontract and/or assign the work to be performed hereunder. Response times will vary due to facility/vessel location.

The response agreement covers a three-year period, starting in **November 2009** through **November 2012.**

24-Hour Emergency Response Hotline

1-800-645-6671

This Letter of Intent will provide proof of our intention to respond to all Louisiana facilities within one hour with all available resources.
Again thank you for the opportunity to be of service to Hilcorp Energy Company.

If we can be of any assistance please feel free to call at any time.

Sincerely,

Joseph J. Christiana
Vice President

OIL MOP, LLC

1-800-645-6671

Hilcorp Energy Rate Schedule
January 1, 2009

PERSONNEL

Oil Spill	Straight Time	Overtime	*Haz-Mat	Straight Time	Overtime
Administrative/Logistical Support	$35.00/hr	$52.50/hr	Administrative/Logistical Support	$35.00/hr	$52.50/hr
Response Technician	$36.00/hr	$54.00/hr	Haz-Mat Technician	$50.00/hr	$75.00/hr
Equipment Operator/Driver	$40.00/hr	$60.00/hr	Mechanic	$47.00/hr	$70.50/hr
Foreman	$45.00/hr	$67.50/hr	Sampling/Monitoring Specialist	$50.00/hr	$75.00/hr
Sampling/Monitoring Specialist	$45.00/hr	$67.50/hr	Equipment Operator/Driver	$50.00/hr	$75.00/hr
Mechanic	$45.00/hr	$67.50/hr	Logistics Coordinator	$50.00/hr	$75.00/hr
Logistics Coordinator	$50.00/hr	$75.00/hr	Disposal & Transportation Coordinator	$50.00/hr	$75.00/hr
Disposal & Transportation Coordinator	$50.00/hr	$75.00/hr	Foreman	$57.00/hr	$85.50/hr
Heavy/Specialized Response Equip.Oper.	$55.00/hr	$82.50/hr	Heavy/Specialized Response Equip.Oper.	$67.00/hr	$100.50/hr
Supervisor	$57.00/hr	$85.50/hr	Supervisor	$75.00/hr	$112.50/hr
Site Safety Officer	$60.00/hr	$90.00/hr	Site Safety Officer	$75.00/hr	$112.50/hr
Site/Zone Manager	$75.00/hr	$112.50/hr	Site/Zone Manager	$75.00/hr	$112.50/hr
Health & Safety Manager/Consultant	$100.00/hr	$150.00/hr	Health & Safety Manager/Consultant	$100.00/hr	$150.00/hr
Consultant/Project Manager	$100.00/hr	$150.00/hr	Consultant/Project Manager	$100.00/hr	$150.00/hr
			High Hazard Technician	$120.00/hr	$180.00/hr
			High Hazard Supervisor	$165.00/hr	$247.50/hr

***Hazmat rates will be used on material with a 2 or greater hazard rating per NFPA 704 or if a job requires respiratory protection.**

STANDBY RESCUE SERVICES

3 Person Team	$150.00	per hour	Includes basic rescue equipment and one vehicle
2 Person Team	$110.00	per hour	Includes basic rescue equipment and one vehicle
Standby Rescue Trailer	$25.00	per hour	

PERSONNEL

1. Personnel will be charged Portal-to-Portal, with a (4) four–hour minimum upon activation. The client will be charged for the time required to service, repair and restock all vehicles and equipment used during the project. This fee will be charged at the conclusion of the project.
2. Straight-Time rates apply to the first (1st) 8 hours "WORKED" between 0800-1600, Monday through Friday. All other hours worked, including Saturday and Sunday will be charged at the Overtime rate. Double Time (**Double the straight time rate**) will be charged for all OMI Holidays, which include Christmas Day, New Years Day, Mardi Gras Day, Good Friday, Memorial Day, Independence Day, Labor Day, and Thanksgiving Day. When these holidays fall on a weekend, the nearer weekday will be charged at the Overtime rate.
3. Subsistence will be charged when an employee is performing work over fifty (50) miles from their normally assigned OMI Branch location at a rate of $110.00 per/day-per/man. When working in high cost areas as defined by U.S. Government Travel Regulations, subsistence rates may increase.
4. Personnel travel time via air, land or water will be charged as per OMI's current rate sheet. Extraordinary travel expenses i.e. airline tickets, charter aircraft, taxi, parking etc., will be charged at cost plus 20%. Travel expenses for long-term, on-site personnel who are permitted to return home every three (3) weeks will be charged at cost plus 20%.
5. Personnel Protection Equipment not listed will be billed at cost +20%.
6. **HEAT STRESS** Due to working conditions and elevated temperatures, all personnel will be provided water and electrolyte drinks throughout the project in an effort to reduce heat related injuries.
7. **SITE SAFETY** Due to the number of personnel or conditions at a work site, OMI may require a safety officer(s) to be dispatched to the site. The safety officers will remain on site and billed for until OMI and Customer agree that the services are no longer needed.
8. Any additional or follow-up work; reports, permitting, meetings, consent orders, insurance meetings or any other commitment of time requested by client or required by governmental agencies, courts or other involved parties will be charged to the client at the applicable daily rate (not less than $ 500.00/day) plus transportation and subsistence.
9. OMI reserves the right to bill the client for all items and adjustments made by third party negotiators (qualified individual, adjusters, etc.).
10. OMI reserves the right to bill for adjustments made necessary due to quality assurance checks and/or internal audits.
11. OMI will at no time allow post emergency response negotiated rates to become retroactive.

Equipment & Miscellaneous

1. Equipment is charged portal-to-portal; from time of activation.
   a. Equipment billed on an hourly basis will be billed for a minimum of four (4) hours upon activation. Equipment billed on a daily basis will be billed for a full day upon activation, unless the response is canceled within the first four hours, and the equipment has not been used, in which case it will be billed at half the daily rate. Daily rate charges are the minimum and maximum charges. Equipment identified on the rate sheet as a daily rate charge will be billed at the daily rate for any period of time used between 0001 and 2400 hours of the same day.
   b. All fuel and lube oil charges will be billed at cost plus 20%.
   c. Upon completion of the project the equipment will be returned to its condition at the time of activation. The client will be billed at the equipment rate while the equipment is being decontaminated and/or repaired. If, during the performance of a service and/or services for a client, equipment and/or material sustain damage which renders the equipment and/or material beyond repair or renders decontamination impossible, said equipment and/or materials will be subject to a replacement charge at OMI's cost plus 20% unless said damage was sustained as a result of misuse by OMI personnel.
2. All equipment and/or expendables not listed on the current rate schedule will be billed at cost plus 20%.
3. Unless otherwise stated all Equipment charges are WITHOUT operator.
4. All federal, state and municipal taxes, except income taxes and ad-valorem taxes, now and hereinafter imposed with respect to services rendered; to rental equipment; to processing, manufacture, repair, delivery, transportation of equipment and supplies shall be added to and become part of the total price payable by the client. If the client claims an exemption from payment of State Sales and Use Tax, the client will be required to render an Exemption Certificate or Resale Certificate to OMI prior to invoicing.
5. Disposal of recovered product and contaminated materials is the client's responsibility, as generator. OMI will assist with arranging transportation and disposal, if requested.
6. The term of payment for all invoices is Net 30 days from the date of invoice. A finance charge computed at the periodic rate of one and one half percent (1.5%) per month (18% per annum) will be applied to all invoices with an unpaid balance beginning on the thirty-first (31st) day from the date of invoice.
7. It is the client's responsibility to pay all invoices within 30 days regardless of insurance or third party claims.

STANDBY RATES FOR EQUIPMENT & PERSONNEL

A. Equipment held in reserve, either on-site or at a dispatch point for the exclusive benefit of the client, will be charged at a stand-by rate equal to half the standard rate until released by the client. If the equipment is needed on another project, the client will be notified and offered the option of releasing the equipment. If the client chooses to retain the equipment on stand-by it will be charged at the full daily rate until released.

B. Personnel held in reserve, either on-site or at a dispatch point for the exclusive benefit of the client, will be charged at full rates.

C. Subsistence at a rate of $110.00 per day/per man will be charged when a standby employee is required to be held off-site. When working in high cost areas as defined by U.S. Government Travel Regulations, subsistence rates may increase

AUTOMOTIVE

1-Ton Pickup Truck or Smaller	$135.00	per day	ATV-4 X 4 or 4 X 6	$270.00	per day
1-Ton Pickup Truck 4 X 4	$180.00	per day	ATV (Utility Vehicle - Mule)	$360.00	per day
1-Ton Stake bed (Dually)	$157.50	per day	Rubber Tire Backhoe	$495.00	per day
15 Passenger Van	$180.00	per day	Dozer	Cost +	20%
Mechanic's Truck	$157.50	per day	Excavator	Cost +	20%
2.5 -Ton HAZMAT Response Truck	$450.00	per day	Forklift	$225.00	per day
25 -Ton Crane Truck	$67.50	per hour	Delivery and pickup of all rental	Cost +	20%
2 Ton Flatbed w/Autocrane	$247.50	per day	equipment.		

• Mileage for all motorized vehicles will be charged according to the cost per gallon of fuel. $4.00 per gallon or less will be charged @ $.90 per mile. $4.00 per gallon or greater will be charged @ $1.25 per mile.

TRUCKS WITH OPERATOR

Roll-Off, Bobtail	$70.00	per hour	Vacuum Truck (70 bbl)(Stainless Steel)	$115.00	per hour
Roll-Off, Tractor-Trailer	$85.00	per hour	Vacuum Truck (130 bbl)	$75.00	per hour
Roll-Off, Transportation Charges	Trip Rates Apply		Vacuum Truck Wet/Dry (air mover)	$150.00	per hour
Vacuum Truck (70 bbl)(Carbon Steel)	$75.00	per hour	24' Bobtail Flatbed with Lift Gate	$75.00	per hour
Flat Bed Trailer	Trip Rates Apply		Drop-Deck Trailer	Trip Rates Apply	
Dry Van Trailer	Trip Rates Apply				

*A fuel surcharge will be added to all tickets based on the U.S.D.O.E. average cost

TRAILERS

Hazardous Response Trailer	$405.00	per day	Trailer, Flatbed/Box (over 40')	$135.00	per day
Non-Haz Response Trailer	$270.00	per day	Trailer, Utility (under 40')	$117.00	per day
Transfer Trailer, Chemical	$405.00	per day	Command Trailer	$900.00	per day

MARINE EQUIPMENT

Air Boat	$585.00	per day	20' Barge Boat with 30 bbl storage	$720.00	per day
16' Flat Boat w/o motor	$99.00	per day	26'-28' Fast Response Vessel	$585.00	per day
16' Flat Boat w/Motor	$180.00	per day	18' Mud Boat	$202.50	per day
18'-24' Fast Response Vessel	$360.00	per day	30' Barge Boat	$900.00	per day
26' Cabin Boat	$585.00	per day	Pirogue	$40.50	per day
Tug Boat	Cost +	30%	Deck Barge	Cost +	30%
Crew Boat	Cost +	30%	Spud Barge	Cost +	30%

SPECIALIZED TOOLS & EQUIPMENT

*Chlorine Kit – A	$450.00	per day	Mercury Spill Kit	$157.50	each
*Chlorine Kit – B	$630.00	per day	Putty Repair, Plug & Dike	$31.50	each
*Chlorine Kit – C	$810.00	per day	Plug & Patch Kit	$180.00	each
Fittings Charge for Transfer	$225.00	each	*Magnetic Patch Kit	$765.00	per day
Betts Emergency Transfer Valve (BET)	$270.00	per day	*Midland Kit	$1,350.00	per day
Full Body Harness w/lanyard	$31.50	per day	Pressure Gauge	$45.00	per day
Non-Sparking Tool Kit	$135.00	per day	Grounding Rods	$45.00	per day
Portable Flare Stack	$225.00	per day	Grounding Cables	$67.50	per day
Tripod & Retrieval Device	$135.00	per day	Ground Megger	$135.00	per day

*** Chlorine,Midland and Magnetic Patch Kits are daily cost plus rebuilds and or repairs.**

RECOVERY EQUIPMENT

I-4D Rope Mop w/50' Rope Mop & Tail Pulley		$360.00/day	Hydraulic Power Pack up to 25 HP.	$315.00	per day
II-4D Rope Mop w/100' Rope Mop & Tail Pulley		$382.50/day	Skimmer Drum - Single Barrel	$450.00	per day
II-6D Rope Mop w/100' Rope Mop & Tail Pulley		$427.50/day	Skimmer Drum - Double Barrel (Small)	$495.00	per day
II-9D Rope Mop w/200' Rope Mop & Tail Pulley		$517.50/day	Skimmer Drum - Double Barrel (Large)	$675.00	per day
			Skimmer Duck Bill	$45.00	per day
4" Rope Mop	$0.90	ft. per day	Skimmer Marco 28' Recovery Vessel	$3,150.00	per day
6" Rope Mop	$0.90	ft. per day	Marco Belt-Light Oil Pads (Set of 4)	Cost+	20%
9" Rope Mop	$0.90	ft. per day	Skimmer Marco Drive Belt	Cost+	20%
12" Tail Pulley	$9.00	Day/Each	Skimmer Pelican 18"-24"	$112.50	per day
16" Tail Pulley	$18.00	Day/Each	Self-Propelled Shallow Water Barge &	$1,800.00	per day
HEPA/Mercury Vacuum	$270.00	per day	Oil Recovery System		
HEPA Filter Replacement	$67.50	per day	Vacuum Unit (Skid Mounted, Portable)	$540.00	per day
			Self-Propelled Shallow Water Debris &	$1,350.00	per day
Note: Drum Skimmer prices include Air Compressor and Air Hose.			Oil Recovery System		

Note: Rope Mop Skimmer pricing is + replacement of Rope Mop if damaged.

BOOM AND ANCHOR SYSTEMS

6" Marsh Boom	$0.67	per foot	48" Ocean Boom	$5.40	per foot
10" Swamp Boom	$1.12	per foot	Boom Anchor Systems (18" boom)	$22.50	Day/Each
18" Containment Boom	$1.35	per foot	Boom Anchor Systems (24"-48" boom)	$40.50	Day/Each
24" Containment Boom	$2.70	per foot	Boom Lights	$22.50	per day
36" Containment Boom	$3.82	per foot			

Boom Anchor Systems consist of Anchor, Chain, Rope and Buoy. Any system component lost or not recoverable will be billed at cost + 20%

TEMPORARY STORAGE

20 - 25 yard Roll Tarp Box	$22.50	per day	41 bbl Storage Tanks	$45.00	per day
24 bbl Debris/Cutting Box	$67.50	per day	500 bbl Frac Tank (Not including Delivery)	$76.50	per day
30 bbl Storage Barge (Closed)	$382.50	per day	Vacuum Box	$45.00	per day

AIR COMPRESSOR/GENERATORS

Air Compressor (375 CFM)	$270.00	per day	Generator (12kw)	$180.00	per day
Air Compressor (175 CFM)	$202.50	per day	Generator (8kw)	$135.00	per day
Air Compressor (10 CFM)	$99.00	per day	Generator (5kw)	$81.00	per day

PUMP/HOSE

1" Chemical Drum Pump	$135.00	per day	Hose 1" or less (Air)	$0.40	
1" S/S Diaphragm Pump	$135.00	per day	Hose 1" Chemical	$7.20	ft. per day
1" Trash/Wash Pump	$67.50	per day	Hose 2" Chemical	$9.00	ft. per day
1" Poly/Alum Diaphragm Pump	$67.50	per day	Hose 3" Chemical	$13.50	ft. per day
2" S/S Air Diaphragm Pump	$225.00	per day	Hose 3" or less (Flat Discharge/Fire)	$0.45	ft. per day
2" Chemical Transfer Pump	$315.00	per day	Hose 3" or less (Hydrocarbon)	$27.00	section/day
2" Peristaltic Pump	$315.00	per day	Hose 1.5"-3" (Fire)	$1.35	ft. per day
2" Poly Air Diaphragm Pump	$225.00	per day	Hose 5" (Fire)	$2.70	ft. per day
2" Pump, Air Diaphragm (double/single)	$81.00	per day	Hose 4"-6" (Flat Discharge)	$0.72	ft. per day
2" Pump, Trash/Wash	$90.00	per day	Hose (Anhydrous Ammonia)	$13.50	ft. per day
3" Chemical Transfer Pump	$360.00	per day	Hose (LPG)	$13.50	ft. per day
3" Pump, Air Diaphragm	$90.00	per day	Hose (Monel)	$27.00	ft. per day
3" Pump, Wash	$108.00	per day	Hose 4" ADS	$1.57	per foot
4" Pump, Hydraulic Submersible	$360.00	per day	Hose 6" ADS	$1.57	per foot
4" Sludge Master-Poppet Pump	$150.00	per day	Hydraulic Power Pack up to 25 HP.	$315.00	per day
6" Pump, Hydraulic Submersible	$150.00	per day			
4" PD Pump	$270.00	ft. per day	**All diaphragm pumps are daily cost plus rebuild.**		

DECONTAMINATION

Decon Basin (6' Pool)	$22.50	each	Fastank	$180.00	per day
Decon Pool (10'x10')	$135.00	per day	Steam Cleaner/Pressure Washer	$405.00	per day
Decon Pool (25'x50')	$270.00	per day	Hudson Sprayer	$22.50	per day
Decon Pool (20'x100')	$405.00	per day	Kwik Tank	$90.00	per day

ENVIRONMENTAL SAMPLING EQUIPMENT

Met Station	$135.00	per day	Multi Rae	$180.00	per day
Air Sampling Pump-Personal	$49.50	per day	Ultra Rae	$180.00	per day
Bailer, Disposable	$27.00	each	Ultra Rae Benzene Tubes	$22.50	each
Chemical Specific Detector Tube	$22.50	each	Jerome Mercury Vapor Meter	$315.00	per day
Direct Read Meter (Four Gas)	$157.50	per day	LEL-02 Meter	$135.00	per day
Draeger Gas Detector (Not including tube)	$27.00	per day	Noise Dosimeter	$45.00	per day
Drum Thief	$9.00	each	Organic Vapor Analyzer (FID)	$360.00	per day
HAZCAT Analysis Kit	$45.00	per test	Organic Vapor Monitor (PID)	$135.00	per day
Hydrogen Sulfide (H2S) Meter	$45.00	per day	PH Meter	$36.00	per day
Interface Probe	$90.00	per day	PH Paper Strips	$22.50	per pack
Draeger CMS	$157.50	per day	Radiation Meter	$112.50	per day
CMS Chips	Cost +	20%	Disposable Sample Scoops	$2.70	each

PERSONAL PROTECTIVE EQUIPMENT

LEVELS OF PROTECTION

Level A Protection	$1,350.00	each	Level D	$36.00	each
Level B Protection	$405.00	each	(Nomex and/or 2 Changes of Tyvek or		
Level C Protection	$180.00	each	Rainsuits)		

Level "A" Protection shall consist of the following: Positive pressure, full face self contained breathing apparatus (SCBA) or supplied air respirator with escape SCBA, up to Tychem TK640 or equivalent totally encapsulating chemical protective suit, chemical resistant inner and outer gloves and chemical resistant boots.

Level "B" Protection shall consist of the following: Positive pressure, full face SCBA or supplied air respirator with escape SCBA, up to Kappler CPF III or equivalent hooded chemical protective suit, chemical resistant inner and outer gloves and chemical resistant boots.

Level "C" Protection shall consist of the following: Full face or half mask air purifying respirator with appropriate cartridges, up to Kappler CPF II or equivalent hooded or non-hooded chemical protective suit, chemical resistant gloves and chemical resistant boots or boot covers.

Level "D" protection consists of working uniform and head-hand-foot-eye and/or hearing protection as necessary.

Level "D" Protection Rate of $40.00per/day-per/man will be charged in lieu of the $15.00 charge when personnel are in "Nomex" coveralls and/or up to two (2) daily changes/per/man of poly-coated tyvek or rain gear.

Head & Eye Protection

Hard Hats	$31.50	each			
Face Shields	$36.00	each			
Safety Glasses	$9.00	each			
Safety Goggles	$22.50	each			

SUITS

CPF I	$31.50	each	Tyvek Suit	$9.00	each
CPF II	$45.00	each	Tyvek Polycoated	$22.50	each
CPF III	$94.50	each	PVC Rain Suits	$16.20	each
CPF IV	$225.00	each	Body Armor	$90.00	per day
Aluminized Outer Garment	$1,350.00	each	Cool Vest	$22.50	per day
NFPA Spec. Bunker Gear (Full set)	$225.00	per day	Flame Retardant Coveralls	$22.50	per day
PVC Acid Suits	$67.50	each			

FOOT PROTECTION

Chemical Boots	$76.50	per pair	Fire Boots	$135.00	per pair
Boots Rubber Steel Toe	$40.50	per pair	Latex Boot Covers	$5.40	per pair
Chest Waders/Hip Waders	Cost +	20%			

HAND PROTECTION

Butyl Gloves	$40.50	per pair	Neoprene Gloves	$8.10	per pair
Cotton Gloves	$2.70	per pair	Neox Gloves	$8.10	per pair
Latex Inner Gloves (box)	$18.00	per box	PVA Gloves	$31.50	per pair
Leather Gloves	$9.00	per pair	PVC Gloves	$2.70	per pair
Nitrile Gloves	$4.50	per pair			

RESPIRATORY PROTECTION EQUIPMENT

5 minute escape pack	$135.00	per day	Refill Bottles (up to 4500psi)	Cost +	20%
30 minute S.C.B.A.	$157.50	per day	Respirator Cartridge	$31.50	per pair
60 minute S.C.B.A.	$202.50	per day	Respirator Full Face	$31.50	per day
Breathing Air Cascade w/regulator (6 bottles)		Cost +	Respirator Half Face	$18.00	per day
Portable Breathing Air Compressor w/Cascade (6 bottles)		Cost +			

SORBENT MATERIALS

Bio-Degradable Sorbent	$59.00	per bag	Sorbent Boom 5" (40' per bale)	$55.00	per bale
Chemical Sorbent Pads	$63.00	per bale	Sorbent Boom 8" (40' per bale)	$65.00	per bale
Chemical Sorbent Rolls	$153.00	per roll	Sorbent Pads (100 per bale)	$28.00	per bale
Viscous Sweep (65 # bale)	$112.50	per bale	Sorbent Rolls (144' x 38")	$135.00	per roll
Snare (15 # box 30 count)	$54.00	per box	Spag Sorb	$22.50	per bag
Sorbent Sweep (100' per bale)	$90.00	per bale	Floor Dri (Granular Sorbent)	$22.50	per bag
4" Rope Mop	$25.15	per foot	Industrial Carpet (300' roll)	$247.50	per roll
6" Rope Mop	$26.95	per foot	Oil Gator	$22.50	per bag
9" Rope Mop	$28.75	per foot			

COMMUNICATION

Digital Camera	$27.00	per day	Laptop Computer with Printer	$67.50	per day
Digital Video Camera	$67.50	per day	Air Card (for Laptop Computers)	$67.50	per day
Disposable Camera/Photo Processing	Cost +	20%	Two-Way Communications	$45.00	ea per day
Cell Phone	$22.50	per day	Intrinsically Safe Handheld Radio	$67.50	ea per day
Satellite Phone **(day rate plus airtime)**	$180.00	per day			
GPS Monitor	$22.50	per day	Comms Unit w/Tower & Repeater	$585.00	per day

CHEMICALS

Citric Acid	$135.00	per bag	OMI 110 Degreaser	$22.50	per gal.
Hg Absorbent	$27.00	per lb.	OMI 500 Degreaser	$22.50	per gal.
Hydrochloric Acid	$4.50	per gal.	Soda Ash (50lb)	$27.00	per bag
Hydrogen Peroxide (35%)	$5.40	per gal.	Sodium Hypochlorite Solution (15%)	$6.07	per gal.
Lime (50lb)	$13.56	per bag	Sulfuric Acid (50lb)	$76.50	per bag
Micro-Blaze	$35.10	per gal.	Surfactant	$27.00	per gal.
			Multek 1500	$22.50	per gal.

Specialty Chemicals not listed will be priced upon request

MISCELLANEOUS

5 Gallon Bucket w/lid	$13.50	each	Hand Tools	$31.50	each
20 Gallon Pollution Can	$18.00	each	Leaf Blower	$40.50	per day
55 Gallon Drum (poly)	$67.50	each	Light Stand High Intensity	$45.00	per day
55 Gallon Drum (steel)	$68.85	each	Light Tower	$225.00	per day
85 Gallon Overpack Drum (steel)	$166.50	each	Plate Lifter	$22.50	per day
95 Gallon Overpack Drum (poly)	$225.00	each	Pollution Bags (50 count)	$67.50	per box
110 Gallon Overpack Drum (poly)	$337.50	each	Polyethylene Roll (Visqueen) 20'x100'	$67.50	per roll
Air Drill (1/2")	$67.50	per day	Polypropylene Rope (1/4")	$67.50	per roll
Barrel Siphon Pump	$22.50	each	Polypropylene Rope (3/8")	$67.50	per roll
Box Liners (roll-off)	$45.00	each	Polypropylene Rope (1/2")	$90.00	per roll
Box of Rags	$31.50	each	Polypropylene Rope (3/4")	$157.50	per roll
Chain Saw	$67.50	per day	Scare Gun w/fuel	$54.00	per day
Chains and Binders	$18.00	per day	Shrink Wrap Roll	$43.20	per roll
Drinking Water	$22.50	per case	Shrink Wrap Tool	$9.00	per day
Electrolyte Drinks	$31.50	per case	Tape (Barrier) (hazardous, caution)	$31.50	per roll
Drum Crusher	$135.00	per day	Tent 20'x30' Personnel Staging	$135.00	per day
Drum Dolly	$18.00	per day	Tripod and Surveying Rod	$27.00	per day
Drum Lift w/chain	$22.50	per day	Weed Eater	$40.50	per day
Duct Tape	$6.75	each	Welding Machine	$90.00	per day
Forklift Drum Caddie	$22.50	per day	Wheelbarrow	$18.00	per day
Gaylord Box	$157.50	each	Extension Cord	$9.00	per day
Pallet Jack	$90.00	per day	Flash Lights	$9.00	per day
Extension Ladder	$22.50	per day	GFCI	$4.50	per day
Decon Brushes	$13.50	per day	T-Post	$13.50	per day
Port-O-Lets (Including servicing)	Cost +	20%	Portable Air Horns	$27.00	per day
Lunches/Catering Services	Cost +	20%			

EH&S

ES&H
The Total Assurance Team

CORPORATE
P.O. Box 9217
Houma, LA 70361
985.851.5350, office
985.853.1978, fax

Fourchon Response Office
106 17th Street
Fourchon, LA 70357

Golden Meadow Response Office
21148 Hwy 1
Golden Meadow, LA 70357

Houma Response Office
1730 Coteau Road
Houma, LA 70364

Houston Response Office
8930 Lawndale, Ste A
Houston, TX 77012

Lake Charles Response Office
2812 S. Beglis Parkway
Sulphur, LA 70663

Morgan City Response Office
3189 Highway 70
Morgan City, LA 70380

New Iberia Response Office
2917 Fairchild Drive
New Iberia, LA 70562

New Orleans Response Office
3260 Barataria Blvd.
Marrero, LA 70072

Consulting & Training Group
1730 Coteau Road
Houma, LA 70364
Ph: 985.851.5055
Fx: 985.851.7480

Consulting & Training Group
650 N. Sam Houston Pkwy.
E., Suite #313
Houston, TX 77060
Ph: 281.448.6600
Fx: 281.448.6602

Industrial Group
1085 Bert St.
LaPlace, LA 70068
Ph: 985.652.4885
Fx: 985.652.4854

Turnaround Service
1085 Bert St.
LaPlace, LA 70068
Ph: 985.652.4885
Fx: 985.652.4854

September 28, 2010

Emergency Response Capabilities

Environmental Safety and Health Consulting Services, Inc. (ES&H) is pleased to offer our emergency response resources to Hilcorp Energy Company for their SWP 24 Terminal at (b) (7)(F) [redacted] located in Plaquemines Parish, Louisiana.

ES&H can have the necessary resources to the above-mentioned facility within the time frame intended by OPA 90. ES&H resources will be provided based upon availability at the time of notification. All of our facilities are manned with 40-hour HAZWOPER trained personnel that are capable of responding to oil spills.

Should you have any questions or comments regarding these provisions, please feel free to contact me at (985) 851-5350 or by e-mail at klormand@esandh.com.

Certifying Official

Kevin J. Lormand
Regional Manager

Individual OSRO Classification Report

0050 Environmental Safety & Health Consulting Services

		Facilities				*Vessels*			
		MM	*W1*	*W2*	*W3*	*MM*	*W1*	*W2*	*W3*
COTP: CORPUS CHRISTI	*River/Canal*	☐	☐	☑	☑	☑	☑	☑	☑
☑ *High Volume Port*	*Inland*	☐	☐	☑	☑	☑	☑	☑	☑
Alternate City:	*Open Ocean*	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: HOUSTON-GALVESTON	*River/Canal*	☑	☑	☑	☑	☑	☑	☑	☑
☑ *High Volume Port*	*Inland*	☑	☑	☑	☑	☑	☑	☑	☑
Alternate City:	*Open Ocean*	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: JACKSONVILLE	*River/Canal*	☑	☑	☑	☑	☑	☑	☑	☑
☐ *High Volume Port*	*Inland*	☑	☐	☑	☑	☑	☑	☑	☑
Alternate City:	*Open Ocean*	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: JACKSONVILLE(PORT CANAVERAL, FL)	*River/Canal*	☑	☑	☑	☑	☑	☑	☑	☑
☐ *High Volume Port*	*Inland*	☑	☐	☑	☑	☑	☑	☑	☑
Alternate City:	*Open Ocean*	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: MOBILE	*River/Canal*	☑	☑	☑	☑	☑	☑	☑	☑
☐ *High Volume Port*	*Inland*	☑	☑	☑	☑	☑	☑	☑	☑
Alternate City:	*Open Ocean*	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: MOBILE(PANAMA CITY, FL)	*River/Canal*	☑	☑	☑	☑	☑	☑	☑	☑
☐ *High Volume Port*	*Inland*	☑	☑	☑	☑	☑	☑	☑	☑
Alternate City:	*Open Ocean*	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐
COTP: MORGAN CITY	*River/Canal*	☑	☑	☑	☑	☑	☑	☑	☑
☐ *High Volume Port*	*Inland*	☑	☑	☑	☑	☑	☑	☑	☑
Alternate City:	*Open Ocean*	☐	☐	☐	☐	☐	☐	☐	☐
	Offshore	☐	☐	☐	☐	☐	☐	☐	☐
	Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
	Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

ENCL (1)

Individual OSRO Classification Report

COTP: NEW ORLEANS

☑ *High Volume Port*

Alternate City:

	Facilities				Vessels			
	MM	*W1*	*W2*	*W3*	*MM*	*W1*	*W2*	*W3*
River/Canal	☑	☑	☑	☑	☑	☑	☑	☑
Inland	☑	☑	☑	☑	☑	☑	☑	☑
Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
Offshore	☐	☐	☐	☐	☐	☐	☐	☐
Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

COTP: PORT ARTHUR

☑ *High Volume Port*

Alternate City:

	Facilities				Vessels			
	MM	*W1*	*W2*	*W3*	*MM*	*W1*	*W2*	*W3*
River/Canal	☑	☑	☑	☑	☑	☑	☑	☑
Inland	☑	☑	☑	☑	☑	☑	☑	☑
Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
Offshore	☐	☐	☐	☐	☐	☐	☐	☐
Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

COTP: ST. PETERSBURG(Formerly TAMPA)

☐ *High Volume Port*

Alternate City:

	Facilities				Vessels			
	MM	*W1*	*W2*	*W3*	*MM*	*W1*	*W2*	*W3*
River/Canal	☑	☑	☑	☑	☑	☑	☑	☑
Inland	☑	☐	☑	☑	☑	☑	☑	☑
Open Ocean	☐	☐	☐	☐	☐	☐	☐	☐
Offshore	☐	☐	☐	☐	☐	☐	☐	☐
Nearshore	☐	☐	☐	☐	☐	☐	☐	☐
Great Lakes	☐	☐	☐	☐	☐	☐	☐	☐

Check marks indicate that your company has received classifications in the following areas. Please refer to the OSRO Guidelines for a complete discussion of the 4 classification levels that require different minimum amounts for each Environmental operating area.
MMPD(MM) = Maximum Most Probable Discharge
WCD1(W1) = Worse Case Discharge Tier 1
WCD2(W2) = Worse Case Discharge Tier 2
WCD3(W3) = Worse Case Discharge Tier 3

If an asterisk(*) is displayed after a COTP name, it denotes cities that formerly had COTP authority, but loss that authority and are being considered for designation as an Alternate Classification City(ACC).

Mike Schoch

From: Jennifer Smith [JSmith@esandh.com]
Sent: Friday, February 06, 2009 2:12 PM
To: Mike Schoch
Subject: RE: Updated 2009 Prices and Equipment lists
Attachments: ESH Spill Response Rates - September 2007.pdf; ESH Equipment List - June 2008.pdf

The attached will be good for 2009. If we end up adjusting them, I'll be sure to let you know!!

Thanks and have a great weekend.

Regards,

Jennifer Smith
Account Representative

ES&H
The Total Assurance Team

Consulting and Training Group
650 N. Sam Houston Pkwy, E Suite #313
Houston, TX 77060
office: 281.448.6600
cell: 713.534.4617
email: jsmith@esandh.com
website: www.esandh.com

From: Mike Schoch [mailto:mschoch@hilcorp.com]
Sent: Thursday, January 29, 2009 10:26 AM
To: Jennifer Smith
Subject: Updated 2009 Prices and Equipment lists

Please review the attached document and forward the information to my attention. Thanks for your cooperation with this matter.

Michael Schoch **CSHO, CPEA, CEM, EMT**

Director: Regulatory/Environmental/Safety/Emergency Response

Hilcorp Energy Company/Harvest Pipeline Company
P.O. Box 61229
Houston, Texas 77208-1229
713-209-2416 Office
mschoch@hilcorp.com

ES&H
The Total Assurance Team

EMERGENCY RESPONSE RATE SCHEDULE

September 2007

24-Hour Emergency Response
(877) 4 ESANDH
(877) 437-2634

PERSONNEL

Experienced emergency response personnel are available for complete spill clean-up operations, 24 hours a day, 7 days a week. Normal hours of operation are from 0800 through 1600 daily, Monday through Friday. All labor charges will be in accordance with ES&H Daily Tickets. Overtime for personnel will be charged at time and a half between 1600 through 0800 Monday through Friday, weekends from 1600 Friday through 0800 Monday. Double time rates will be charged for all National Holidays. Per Diem of $125.00 per day, per employee will be charged for all work-performed 50 miles outside of employee's home base. There will be a 4-hour minimum service charge on all labor call outs. All call outs will be charged portal-to-portal.

LEVEL D PPE

Level D PPE shall be used when the atmosphere contains no known hazard and work functions preclude splashes, immersion, or the potential for unexpected inhalation of or contact with hazardous levels of any chemical. Level D protective equipment such as hard hats, personal flotation devices (PFD), steel toe rubber boots, safety glasses, Tyvek coveralls, and inner protective gloves are provided by ES&H at a cost of $50.00 per person, for each day the person is on the work site. Level D PPE is not charged for administrative, support, or delivery personnel.

LEVEL C PPE

Level C PPE shall be used when the atmospheric contaminants, liquid splashes, or other direct contact will not adversely affect or be absorbed through any exposed skin. Secondly, the types of air contaminants have been identified, concentrations measured, and an air purifying respirator (APR) is available that can remove the contaminants. Level C protective equipment such as disposable chemical resistant coveralls (poly-coated Tyvek, CPF-1 & CPF-2), 2 piece chemical splash suits, chemical resistant outer protective gloves and NIOSH approved full face APR's shall be invoiced individually as used.

HEAT STRESS

Due to the possibility of elevated temperatures throughout the year, ES&H shall provide all spill response personnel with water and sports drinks to be consumed throughout the work shift in an effort to minimize the effects of elevated temperatures and prevent heat related injuries. Ice chests and ice shall also be provided by ES&H. Water and sports drinks shall be invoiced per case and ice shall be invoiced per bag (8 pounds).

SITE SAFETY

In the event ES&H mobilizes twelve (12) or more response personnel to a spill site, one or more qualified safety officers will also be mobilized to assist with site safety. The number of safety officers mobilized will be site specific, based upon the logistics of the different work zones. Safety officers will remain on site and work with response personnel throughout the duration of the project until it is agreed upon by ES&H Management and Customer Representatives that these services are no longer required.

AUTOMOTIVE EQUIPMENT

A mileage charge of $0.75 per mile will be charged for all automotive equipment. Fuel for all automotive equipment is included in the $0.75 per mile charge.

BOOM ANCHORS & BUOYS

For each 1000 feet of containment boom deployed, ES&H shall charge a minimum of five (5) anchors, five (5) anchor buoys, and the necessary rope. In areas of strong currents, additional anchors may be deployed to hold containment boom in desired locations. All anchors will be billed at the daily rental rate. Lost or destroyed anchors and buoys will be replaced at **Cost + 20%**.

COMMERCIAL TRANSPORATION

For all employees who do not reside in the local commuting area for the work site, ES&H will be reimbursed for costs incurred for employee travel to and from the work site on the basis of ES&H's incurred cost plus 20% for all commercial transportation.

STAND-BY-RATES

Stand-by rates will be ½ the daily rate for equipment. These rates may be negotiated based upon the circumstances causing the need for a stand-by situation. Full rates will apply for personnel and per diem.

TAXES

All federal, state, and municipal taxes, except income taxes and advalorem taxes, now and hereinafter imposed with respect to services rendered; to rental equipment; to the processing, manufacture, repair, delivery, transportation of equipment and supplies shall be added to and become part of the total price payable by the client, unless the proper exemption certificates are furnished.

TERMS

All equipment not listed in this rate schedule, whether requested by the contracting company or needed to complete work in progress, will be negotiated for price with a client company representative. A 20% handling charge will be added to the cost of any equipment rented or subcontracted, which is or is not listed in this rate schedule.

REPLACEMENT OF DAMAGED EQUIPMENT

All equipment and supplies are subject to a replacement charge at ES&H cost + 20% if damaged, or if decontamination is impossible.

DECONTAMINATION OF EQUIPMENT

A mutually agreed price for cleaning contaminated containment boom shall be decided upon and can vary depending on the degree of contamination. The charges for cleaning all other equipment is ½ the daily rental rate. Time and materials will also be included. Any waste water disposal will be at cost + 20%.

Decontamination pools provided by ES&H shall be invoiced as a daily rental item as listed in the following pages. However, in the event that decontamination pools are damaged or destroyed during decontamination activities, ES&H reserves the right to invoice Cost + 20% for repairs and/or replacement.

ROLL OFF BOXES

Roll off box delivery and pickup charges vary according to the distance from the site location. The cost for roll off liners is $ 45.00 each. Box liners are mandatory, however if the roll off box requires cleaning at the end of the rental period, the customer will incur the cleaning charges.

INVOICES

Invoices will be rendered either on a daily basis or at the completion of the job, depending on the duration of the job. Invoices will contain all applicable Federal, State and, Local taxes. All charges are payable NET CASH within thirty (30) days from the date of invoice. Finance charges will be applied to invoices with an unpaid balance beginning thirty-one (31) days from the date of invoice. Finance charges are computed at the periodic rate of 1.5% per month (18% per annum.)

OIL SPILL RESPONSE	HOURLY RATE	
ADMINISTRATIVE PERSONNEL	**Regular**	**Overtime**
Project Manager	$75.00	$112.50
Project Accountant	$65.00	$97.50
Transportation/Disposal Coordinator	$45.00	$67.50
Logistics Coordinator	$42.00	$63.00
Field Clerk	$38.00	$57.00
Administrative/ Logistics Support	$35.00	$52.50
RESPONSE PERSONNEL	**Regular**	**Overtime**
Supervisor	$55.00	$82.50
Foreman	$45.00	$67.50
Specialized Equipment Operator	$42.00	$63.00
Boat Operator	$40.00	$60.00
Mechanic	$40.00	$60.00
Confined Space Entry Technician	$38.00	$57.00
Technician	$33.00	$49.50
SAFETY PERSONNEL	**Regular**	**Overtime**
Safety Officer	$50.00	$75.00
Air Monitoring/Sampling Technician	$45.00	$67.50
Fire Watch/Hole Watch	$35.00	$52.50

HAZMAT RESPONSE	HOURLY RATE	
ADMINISTRATIVE PERSONNEL	**Regular**	**Overtime**
Project Manager	$85.00	$127.50
Project Accountant	$65.00	$97.50
Transportation/Disposal Coordinator	$55.00	$82.50
Logistics Coordinator	$42.00	$63.00
Field Clerk	$38.00	$57.00
Administrative/Logistics Support	$35.00	$52.50
RESPONSE PERSONNEL	**Regular**	**Overtime**
Supervisor	$65.00	$97.50
Foreman	$55.00	$82.50
Heavy Equip./Specialized Response Equip. Operator	$52.00	$78.00
Mechanic	$50.00	$75.00
Confined Space Entry Technician	$48.00	$72.00
Hazmat Technician	$43.00	$64.50
SAFETY PERSONNEL	**Regular**	**Overtime**
Safety Officer	$60.00	$90.00
Air Monitoring/Sampling Technician	$55.00	$82.50
Fire Watch/Hole Watch	$45.00	$67.50

RESPONSE VEHICLES	
Pick Up Truck	$125.00 / day
1 Ton Pick Up Truck	$150.00 / day
1.5 Ton Truck	$175.00 / day
Personnel Van	$125.00 / day
4 x 4 Pick Up	$200.00 / day
4 x 4 ATV	$275.00 / day
RTV Mule	$450.00 / day
Command Post (Mobile)	$1000.00 / day
Tractor Truck	$95.00 / hour
130bbl Vacuum Truck	$75.00 / hour
70bbl Vacuum Truck	$70.00 / hour
Flatbed Freightliner (Drum Truck)	$80.00 / hour
Roll Off Delivery (Single)	$95.00 / hour
Roll Off Delivery (Double)	$160.00 / hour
Forklift (Used @ ES&H Offices Only)	$50.00 / hour

RESPONSE TRAILERS	
48' Response Trailer	$200.00 / day
36' Response Trailer	$180.00 / day
32' Response Trailer	$175.00 / day
28' Response Trailer	$150.00 / day
24' Response Trailer	$135.00 / day
20' Response Trailer	$125.00 / day
16' Response Trailer	$100.00 / day
8' Response Trailer	$50.00 / day
6' Response Trailer	$25.00 / day

MARINE EQUIPMENT	
42' Barge Boat with Radar, GPS, & Twin Engines	$1200.00 / day
36' – 38' Barge Boat with Radar, GPS, & Twin Engines	$1000.00 / day
30' – 32' Barge Boat with Radar, GPS, & Twin Engines	$800.00 / day
26' – 30' Barge Boat with Twin Engines	$750.00 / day
22' – 24' Barge Boat with Single Engine	$600.00 / day
32' Response Boat with Twin Engines	$900.00 / day
30' Response Boat with Twin Engines	$875.00 / day
28' Response Boat with Twin Engines	$850.00 / day
26' Response Boat with Radar, GPS, & Twin Engines	$800.00 / day
25' Cabin Boat with Radar, GPS & Single Engine	$650.00 / day
24' – 25' Response Boat with Twin Engines	$550.00 / day
18' – 20' Response Boat with Single Engine	$375.00 / day
16' Response Boat with Single Engine	$250.00 / day
12' – 14' Response Boat with Single Engine	$150.00 / day
12' – 14' Response Boat (No Engine)	$100.00 / day
Pirogue	$35.00 / day
Air Boat	$750.00 / day
Oil Barge (30bbl to 50bbl)	$250.00 / day
Oil Barge (225bbl to 240bbl)	$1000.00 / day

SPILL CONTROL EQUIPMENT	
6" Containment Boom	$0.75 / ft / day
10" Containment Boom	$1.00 / ft / day
18" Containment Boom	$1.40 / ft / day
24" Containment Boom	$3.00 / ft / day
36" Containment Boom	$4.00 / ft / day
42" Containment Boom	$5.50 / ft / day
48" Containment Boom	$6.00 / ft / day
Bullet Anchor	$5.00 / each
10 LB Anchor	$20.00 / each / day
15 LB Anchor	$25.00 / each / day
22 LB Anchor	$40.00 / each / day
40 LB Anchor	$65.00 / each / day
65 LB Anchor	$80.00 / each / day
Boom Lights (small, battery powered) (includes batteries)	$15.00 / day
Boom Lights (large, battery powered) (includes batteries)	$25.00 / day
Chemical Boom Lights	$15.00 / each
Anchor Buoys	$25.00 / each
Boom Stakes	$15.00 / each

SKIMMERS	
Marco Skimmer	$5000.00 / day
Marco Backing Belt (replacement)	$1200.00 / each
Marco Light Oil Belt (replacement)	$1200.00 / each
Marco Filterbelt / Pad (replacement)	$700.00 / each
Marco Diesel Pad (replacement)	$700.00 / each
Mobile Drum Skimmer Barge System	$3500.00 / day
Drum Skimmer Package (small)	$715.00 / day
Drum Skimmer Package (medium)	$765.00 / day
Drum Skimmer Package (large)	$815.00 / day
Portable Mini-Vac System	$1250.00 / day
Manta Ray Skimmer	$150.00 / day
Skimpack	$125.00 / day
Aluminum (small)	$150.00 / day
Aluminum (large)	$200.00 / day
Slurp Skimmer	$150.00 / day
Rope Mop I-4	$350.00 / day
Rope Mop II-4	$400.00 / day
Rope Mop II-6	$450.00 / day
Rope Mop II-9	$500.00 / day
12" Tail Pulley	$10.00 / day
16" Tail Pulley	$20.00 / day
4" Rope Mop (rental)	$1.00 / ft / day
6" Rope Mop (rental)	$1.25 / ft / day
9" Rope Mop (rental)	$1.50 / ft / day
4" Rope Mop (replacement)	$23.75 / ft
6" Rope Mop (replacement)	$26.00 / ft
9" Rope Mop (replacement)	$40.00 / ft
Pelican Skimmer	$100.00 / day
Duck Bill Skimmer	$25.00 / day

MISCELLANEOUS	
Sorbent Pad (100 / bale)	$45.00 / bale
Sorbent Pad – Universal (50 / bale)	$70.00 / bale
5" Sorbent Boom (40' / bale)	$105.00 / bale
8" Sorbent Boom (40' / bale)	$145.00 / bale
Sorbent Roll (144' x 38')	$135.00 / roll
Sorbent Sweep (100' / bale)	$95.00 / bale
Pompom Snare (30 / box)	$55.00 / box
Pompom Snare (50' on rope)	$75.00 / box
Pompom Snare (100' on rope)	$200.00 / box
Sorbent Part (27 LB / bale)	$93.00 / bale
Fiber Pearl	$25.00 / bag
Industrial Rug	$250.00 / roll
Spag Sorb. (4cu ft / bag)	$80.00 / bag
Spag Sorb. Boom (32' / box)	$200.00 / bag
Peat Moss (3.8 cu. Ft.)	$25.00 / bag
Oil Gator (50LB)	$25.00 / bag
Pitchfork	$20.00 / each
Rake	$20.00 / each
Shovel (Flat, Spade, Scoop)	$20.00 / each
Flat Shovel (Non-Sparking)	$25.00 / each
Squeegee	$20.00 / each
Scrub Brush	$15.00 / each
Rope, 1/4 (roll)	$60.00 / roll
Rope, 3/8 (roll)	$75.00 / roll
Rope, 1/2 (roll)	$85.00 / roll
Rope, 3/4 (roll)	$150.00 / roll
Pool Net	$25.00 / each
Pollution Net	$25.00 / each
Pollution Bags (50 / roll)	$85.00 / roll
Visqueen	$90.00 / roll
30 gal. Plastic Drum	$70.00 / each
55 gal. Plastic Drum	$72.00 / each
55 gal. Steel Drum	$55.00 / each
85 gal. Steel Salvage Drum	$170.00 / each
95 gal. Plastic Salvage Drum	$195.00 / each
Duct Tape	$6.00 / roll
Pollution Cans	$20.00 / each
Decon Sprayer	$45.00 / each
Barrier Tape	$35.00 / each
Mylar Flagging (1" X 290' Roll)	$20.00 / each
Cane Poles (12' – 15')	$12.00 / each
Hand Cleaner	$5.00 / each
Rags / Wipes (10 # Box)	$15.00 / box
Roll Off Box Liner	$45.00 / each
Disposable Hand Wipes	$35.00 / each
Outboard Oil	$18.00 / gallon
Hose Condom	$30.00 / roll
Micro Blaze (5 gal.)	$275.00 / each
Micro Blaze (55 gal.)	$2900.00 / each
RW 358 TX Soap (5 gal.)	$35.00 / each
Multec 1500 (5 gallon bucket)	$125.00 / each

MISCELLANEOUS cont'd	
Multec 1500 (55 gallon drum)	$900.00 / each
D-Limonene (55 gallon drum)	$900.00 / each
Sample Containers	$5.00 / each
Drinking Water (16 ounce bottles)	$15.00 / case
Drinking Water (5 gallon)	$20.00 / each
Sports Drinks (16 ounce bottles)	$25.00 / case

PERSONAL PROTECTIVE EQUIPMENT	
Polypro Coveralls (Particulate Contaminants Only)	$ Level D PPE
Tyvek Coveralls (Dry Contaminants Only)	$ Level D PPE
Polycoated Tyvek Coveralls	$16.00 / each
CPF – 1 Suit	$24.00 / each
CPF – 2 Suit	$70.00 / each
CPF – 3 Suit	$100.00 / each
CPF – 4 Suit	Cost + 20%
Saranex Suit	$35.00 / each
Acid Suit	$150.00 / each
Disposable Slicker Suit	$15.00 / each
Heavy Duty Slicker Suit	$35.00 / each
Fire Retardant Coveralls	$125.00 / each
Bunker Gear	$175.00 / each
Bunker Gear Refurbishment	$200.00 / each
Hazmat Boots	$100.00 / pair
Tyvek Boot Covers	$5.00 / pair
Rubber Boot Covers	$20.00 / pair
Chemical Resistant Boots	$75.00 / pair
Hip Boots	$75.00 / pair
Chest Waders	$150.00 / pair
Cotton Gloves	$3.50 / pair
PVC Rubber Gloves	$5.50 / pair
Nitrile Gloves (25/box)	$45.00 / box
Safety Glasses	$10.00 / each
Safety Shields	$20.00 / each
Dust / Particulate Mask	$3.00 / each
Half Face Respirator	$25.00 / day
Full Face Respirator	$50.00 / day
5 Min Escape Pack	$100.00 / day
SCBA	$175.00 / day
2 Bottle Breathing Air Cascade System (high pressure)	$200.00 / day
4 Bottle Breathing Air Cascade System (high pressure)	$275.00 / day
6 Bottle Breathing Air Cascade System (high pressure)	$350.00 / day
8 Bottle Breathing Air Cascade System (high pressure)	$400.00 / day
20 Bottle Breathing Air Cascade System (high pressure)	$600.00 / day
Low Pressure Breathing Air Refills	$35.00 / each
High Pressure Breathing Air Refills	$50.00 / each
Breathing Air Compressor	$250.00 / day
H.E.P.A. APR Cartridges	$30.00 / pair
Organic Vapor / H.E.P.A. Cartridges	$30.00 / pair
Chemical Vapor APR Cartridges	$30.00 / pair

PERSONAL PROTECTIVE EQUIPMENT cont'd	
Emergency Signal Horn	$15.00 / each
Safety Harness	$50.00 / day
Lifeline with Safety Hook	$10.00 / day
Tripod / Winch Retrieval System	$160.00 / day
Level D PPE	$50.00 / man / day

SAFETY SUPPORT EQUIPMENT	
Draeger Chip Measuring System	$100.00 / day
Draeger CMS Sample Chip (10 Samples)	$250.00 / each
MSA Passport Air Monitoring	$100.00 / day
FID	$295.00 / day
PID	$275.00 / day
Chemical Tube Pump	$50.00 / day
LudLum Model #2 Norm Survey Meter	$50.00 / day
LudLum Model #3 Norm Survey Meter	$50.00 / day
Chemical Tubes	$15.00 / each
10 lb. A, B, C Dry Chemical Fire Extinguisher	$15.00 / each
20 lb. A, B, C Dry Chemical Fire Extinguisher	$25.00 / day
Portable Hard Wash Station (including servicing)	$75.00 / day
Portable Eye Wash Station (Wall Mount Type)	$20.00 / day
USCG Approved First Aid Kit / Burn Kit	$15.00 / day
Portable Industrial Air Conditioning	Cost + 20%
Forced Air Heaters (250k – 400k BTU)	$35.00 / day
10' x 10' Personnel Tent, Table, & Chairs	$50.00 / day
30' x 30' Personnel Tent, Table, & Chairs	$150.00 / day

MISCELLANEOUS SUPPORT EQUIPMENT	
1" Diaphragm Pump (Gas or Air)	$75.00 / day
2" Diaphragm Pump (Gas or Air)	$110.00 / day
3" Diaphragm Pump (Gas or Air)	$135.00 / day
2" Gas or Diesel Centrifugal Pump	$90.00 / day
3" Gas or Diesel Centrifugal Pump	$110.00 / day
2" Peristaltic Pump (Vac Pump)	$300.00 / day
2" Wash Pump Package (includes 25' Suction/ 100'Discharge)	$140.00 / day
3" Wash Pump Package (includes 25' Suction/ 100'Discharge)	$160.00 / day
½" Air Diaphragm Pump	$65.00 / day
2.8 kW Generator	$70.00 / day
4 kW Generator	$80.00 / day
8 kW – 10 kW Generator	$125.00 / day
15 kW Generator	$175.00 / day
30 kW Generator	$250.00 / day
55 kW Generator	$350.00 / day
10 cfm Air Compressor	$100.00 / day
90 cfm Air Compressor	$150.00 / day
185 cfm Air Compressor	$175.00 / day
375 cfm Air Compressor	$300.00 / day
3/8" Air Hose	$0.15 / ft / day
3/4" Air Hose	$0.25 / ft / day
Heavy Duty Garden Hose	$0.25 / ft / day

MISC. SUPPORT EQUIPMENT cont'd	
1" Suction / Discharge Hose	$0.25 / ft / day
2" Suction / Discharge Hose	$0.40 / ft / day
3" Suction / Discharge Hose	$0.55 / ft / day
4" Suction / Discharge Hose	$0.65 / ft / day
5" Suction / Discharge Hose	$0.75 / ft / day
6" Suction / Discharge Hose	$0.85 / ft / day
2" USCG Approved Hose (Pressure Tested)	$1.20 / ft / day
3" USCG Approved Hose (Pressure Tested)	$1.50 / ft / day
4" Disposable Flex Hose	Cost + 20%
6" Disposable Flex Hose	Cost + 20%
Generated Light Plant	$175.00 / day
Explosion Proof Drop Light	$50.00 / day
Halogen Light Stand	$50.00 / day
Pneumatic Foam Machine	$200.00 / day
Wildlife Hazing Cannon (Includes One Full Propane Bottle)	$50.00 / day
20 # Propane Bottle (Propane Refill Included)	$30.00 / day
Acetylene/ Oxygen Torch Set	$50.00 / day
Acetylene/ Oxygen Bottle Refill	Cost + 20%
Rope Ladder	$20.00 / day
8' Fiberglass Step Ladder	$20.00 / day
24' Fiberglass Extension Ladder	$25.00 / day
40' Aluminum Extension Ladder	$40.00 / day
1500 psi Pressure Washer	$95.00 / day
3000 psi Pressure Washer	$180.00 / day
3000 psi Hot Water Pressure Washer	$250.00 / day
4000 psi Hot Water Pressure Washer	$350.00 / day
Pressure Washer Hose	$0.35 / ft / day
Drum Pump	$200.00 / each
12' Extension Pressure Wand	$10.00 / day
Weedeater (Grass Cutting)	$35.00 / day
Weedeater (Brush Cutting)	$45.00 / day
Air Blower	$35.00 / day
Turbine Air Blower (Ram Fan)	$75.00 / day
4" Cone Blower	$55.00 / day
5" Cone Blower	$65.00 / day
Chain Saw	$35.00 / day
Wheelbarrow	$25.00 / day
Disposable Decon Pool	$20.00 / each
Decon Pool 10 x 10	$150.00 / day
Decon Pool 12 x 50	$200.00 / day
Decon Pool 25 x 50	$275.00 / day
Decon Pool 25 x 100	$425.00 / day
Roll Off Boxes (20 – 25 cubic yard) (Household Garbage)	$25.00 / day
Roll Off Boxes (20 – 25 cubic yard) (Contaminated Debris)	$40.00 / day
Roll Off Boxes (40 cubic yard)	$40.00 / day
Vacuum Box	$75.00 / day
Wooden Pallets (used)	$10.00 / each
Camper Trailers (3 man capacity)	$350.00 / day

COMMUNICATIONS EQUIPMENT	
Disposable Camera & Photo Processing	$30.00 / each
Digital Camera	$50.00 / day
Cellular Phone (No Air Time)	$50.00 / day
Satellite Phone (No Air Time)	$150.00 / day
VHF Radio	$25.00 / day
UHF Radio	$25.00 / day
Portable Radio Repeater	$275.00 / day
Fax Machine	$50.00 / day
Laptop Computer & Printer, Text	$125.00 / day
Poster Printer	$250.00 / day
Copier	$100.00 / day
Handheld GPS	$50.00 / day

EQUIPMENT, MATERIAL, & SUPPLIES, ETC. COST PLUS	
Equipment Fuel	Cost + 20%
Port-o-Lets (rental & servicing)	Cost + 20%
Frac Tank	Cost + 20%
Marine Portable Tanks (any size)	Cost + 20%
Excavator, Backhoe, Dozer	Cost + 20%
Forklift, Crane, Cherry Picker	Cost + 20%
Third Party Transportation Services (Equipment/Materials)	Cost + 20%
Lunches / Catering Services	Cost + 20%
Propane Bottle Refills	Cost + 20%
Tug Boat	Cost + 40%
Deck Barge	Cost + 40%
Spud Barge	Cost + 40%
Crew Boat	Cost + 40%
OSRV / Lift Boat	Cost + 40%
Welding / Cutting Services (to secure equipment on barges)	Cost + 20%
Float Plane / Helicopter Service	Cost + 20%
Decon Facility Rental / Improvements	Cost + 20%

MISCELLANEOUS SERVICES	
Non - Hazardous Drum Disposal (Oily Sorbents / Debris)	$100.00 / each
Non - Hazardous Drum Disposal (Soil / Sand / Rocks)	$150.00 / each
Non - Hazardous Waste Water Disposal (Pending Approval)	$0.19 / gallon

HAZMAT EQUIPMENT & MATERIALS	
16' Hazmat Response Trailer	$200.00 / day
32' Hazmat Response Trailer	$300.00 / day
Chemical Absorbent Pads (100 per bale)	$125.00 / bale
5" Chemical Absorbent Boom	$120.00 / bale
8" Chemical Absorbent Boom	$175.00 / bale
2" Pneumatic Chemical Transfer Pump	$350.00 / day
2" Chemical Suction / Discharge Hose	$2.00 / ft / day
pH Meter	$50.00 / day
pH Test Strips	$3.00 / each

HAZMAT EQUIPMENT & MATERIALS cont'd	
PCB Test Kit	$50.00 / each
Mercury Test Kit	$50.00 / each
Mercury Spill Kit	$250.00 / each
Betts Emergency Value	$750.00 / day
Plug & Patch Kit	$500.00 / day
Bonding & Grounding Kit	$100.00 / day
Non-Sparking Hand Tools Set	$50.00 / day
Pogo Pump	$25.00 / day
Drum Labels	$2.00 / each
Traffic Safety Cones	$5.00 / each / day
Personnel Decon Pool	$20.00 / each
Shrink Wrap	$50.00 / roll
Pallet Puller	$25.00 / day
Drum Dolly	$25.00 / day
Drum Lift / Dump	$25.00 / day
Hazmat Drum Liner	$125.00 / roll
Drum Thief	$30.00 / each
Wet / Dry Vac	$40.00 / day
Sodium Bicarbonate (50 lb.)	$25.00 / each
Muriatic Acid (1 Gallon)	$20.00 / each
Acetic Acid (1 Gallon)	$15.00 / each
Floor Dry (40 LB)	$25.00 / each
Lime (50 lb.)	$20.00 / bag
Stay Dry (40 lb.)	$15.00 / bag

OFFICE LOCATIONS

Corporate Office
1730 Coteau Road
Houma, LA 70364
Phone: 985-851-5350

Morgan City Office
3189 Highway 70
Morgan City, LA 70380
Phone: 985-385-6730

Marrero Office
3260 Barataria Boulevard
Marrero, LA 70072
Phone: 504-340-0336

Lake Charles Office
2812 S. Beglis Parkway
Sulphur, LA 70063
Phone: 337-625-9226

LaPlace Office
1085 Bert Street
LaPlace, LA 70068
Phone: 985-652-4885

Fourchon Office
106 17th Street
Golden Meadow, LA 70357
Phone: 985-396-2798

New Iberia Office
2917 Fairchild Drive
New Iberia, LA 70572
Phone: 337-365-9890

Houston Response Office
8930 Lawndale, Suite A
Houston, TX 77012
Phone: 1-877-437-2634

Houston Consulting Office
650 N. Sam Houston Pkwy. E, Suite #313
Houston, TX 77060
Phone: 281-448-6600

24-Hour Emergency Response
(877) 4 ESANDH
(877) 437-2634

esandh.com
info@esandh.com

RESPONSE RESOURCE SHEET

24-HOUR EMERGENCY HOTLINE 1-877-4ESANDH

JUNE 2008

HOUMA*FOURCHON*MORGAN CITY
NEW ORLEANS*RESERVE/LA PLACE *NEW IBERIA
***NORCO*LAKE CHARLES*GEISMAR*GOLDEN MEADOW*HOUSTON**

Rev. 6/27/2008

Response Equipment by Location

H – HOUMA F – FOURCHON MC – MORGAN CITY
NO – NEW ORLEANS L – LAPLACE NI – NEW IBERA
N – NORCO LC – LAKE CHARLES G – GEISMAR
GM – GOLDEN MEADOW TX – HOUSTON

ITEM	RESPONSE EQUIPMENT	H	F	MC	NO	L	NI	N	LC	G	GM	TX
1	OIL SPILL UNIT	3	1	1	2	1	1		1		1	1
2	HAZ-MAT UNIT	1							1			
3	ASBESTOS TRAILER					1						
4	AIR MONITORING UNIT	6	1	2	2		2		2			1
5	NORM MONITORING METER	3		2	1		2					1
6	16 FT, 10" BOOM TRAILER	2		1			1			1		1
7	16 FT, 18" BOOM TRAILER	4	1		2		1	1	2		1	1
8	48 FT, 18" BOOM TRAILER	1					2		2			
9	16 FT, 24" BOOM TRAILER											
10	16 FT, EQUIPMENT TRAILER					9						
11	ADDITIONAL 6" BOOM	5,000 FT	200 FT	300 FT	100 FT							100FT
12	ADDITIONAL 10" BOOM	10,000 FT	1,000 FT	1,500 FT	3500 FT		2000 FT		1000 FT	500 FT		1000FT
13	ADDITIONAL 18" BOOM	70,000 FT	1000 FT		12000 FT		12000 FT	1000 FT	12000 FT	500 FT	1000 FT	2000FT
14	ADDITIONAL 24" BOOM	2,000FT										
15	ADDITIONAL 36" BOOM	500 FT										
16	MARCO SKIMMER	2			1							
17	LARGE DRUM SKIMMER	14			2				1			1
18	MEDIUM DRUM SKIMMER	13	1	2	2		3		1		1	2
19	SMALL DRUM SKIMMER	3		1								
20	ROPE MOP SKIMMER	3			1							
21	MANTA RAY SKIMMER	4	1		1						1	
22	SLURP SKIMMER	2										
23	SKIM PAK SKIMMER	1	1	1					1		1	
24	32' BARGE BOAT	2										
25	30' BARGE BOAT	1			1							
26	28' BARGE BOAT	2			1				1			
27	28' RESPONSE BOAT	1										
28	25' RESPONSE BOAT	6	1		1						1	
29	20' RESPONSE BOAT	3	1	1	1		1		1			
30	26' RESPONSE BOAT	4			2							1

ITEM	RESPONSE EQUIPMENT	H	F	MC	NO	L	NI	N	LC	G	GM	TX
31	16' JOHN BOAT	25	2	2	3				4	1	1	3
32	14' JOHN BOAT	25			1		3					
33	14' PIROGUE	10	1	1	1							1
34	35 BBL OIL STORAGE BARGE	3										
35	20 BBL OIL STORAGE BARGE											
36	DECON POOL (10 X 10)	4			1							
37	DECON POOL (25 X 50)	8			1							
38	DECON POOL (50 X 100)	8			1							
39	PRESSURE WASHER	10		1			1					
40	STEAM CLEANER	5							1			
41	3" DIESEL DIAPHRAGM PUMP	5	1			13						1
42	2" GAS DIAPHRAGM PUMP	50			3	1	2		2			3
43	WASH PUMP UNIT	70	2	3	2		10		8			
44	3" AIR DIAPHRAGM	15		2	5				1			
45	1" AIR DIAPHRAGM	12					1					
46	SORBENT PADS	2500	50	50	125		50		50	10	5	30
47	5" SORBENT BOOM	2000	50	25	100		50		100	10	5	30
48	8" SORBENT BOOM	600	50	10	100		50					
49	SORBENT ROLL	500	6	7	22		20		8			
50	SORBENT SWEEP	100		4	20		10		8			
51	POM-POM SNARE ON ROPE	800	10	4	75				8			
52	INDUSTRIAL RUG	200	6	6	20		10		8			
53	PITCHFORK	50	6	9	20		12		1			
54	POLLUTION NETS	50	6	10	20		12		12		3	15
55	POLLUTION CANS	30	6	5	20		15		12			
56	POLLTION BAGS (ROLL)	2300	30	7	50	50	30		50		3	15
57	VISQUEEN (ROLL)	500	6	10	40	50	10		20		3	15
58	55 GALLON STEEL DRUM	100		10			4					
59	55 GALLON PLASTIC DRUM	500	50	20	50		50		30		10	30
60	85 GALLON OVERPACK	20										
61	95 GALLON OVERPACK	100		4	12		6		10			
62	FULL-FACE RESPIRATOR	100	3				8		6		3	3
63	SCBA	8			1				4			
64	PVC GLOVES (DOZEN)	600	12	25	21	12	12		10	1	3	3
65	NITRILE GLOVES (BOX)	1000	12	14	96	120	2		10		3	3
66	TYVEK SUITS (CASE)	1000	12	10	30	32	12		10	6	3	3
67	SARANEX SUITS (CASE)	40										
68	LEVEL "B" SUITS (EACH)	100					6					
69	LEVEL "A" SUITS (EACH)								4			
70	AIR COMPRESSOR	50	1	2		2	3		3			
71	SCARE CANNONS	200			2							
72	DRUM TRUCK	1										
73	VACUUM BOXES	2										

ITEM	RESPONSE EQUIPMENT	H	F	MC	NO	L	NI	N	LC	G	GM	TX
74	VACUUM TRUCKS	17							1		2	
75	BOBTAIL	5										

ITEM	RESPONSE EQUIPMENT	H	F	MC	NO	L	NI	N	LC	G	GM	TX
76	DOUBLE RAIL	3										
77	ROLL-OFF CONTAINERS	70									2	
78	40 YD ROLL-OFF T.C.	1										
79	TRENTON 2000 AIR MOVER					1						
80	248BBL BARGE SET	1									1	

EQUIPMENT DESCRIPTIONS

ITEM 1 – OIL SPILL UNIT, 1000FT OF CONTAINMENT BOOM (ANCHORS, ROPE, BOUYS, AND LIGHTS), SKIMMER (INCLUDING STORAGE OF 300 GALS OF PRODUCT), WASH PUMPS (SUCTION HOSE, DISCHARGE HOSE, NOZZLE, AND EXTRA FUEL), SORBENTS (PADS, BOOM, ROLLS), PPE (SUPPORT FOR 6 PEOPLE FOR 3 DAYS) 3 PICK-UP TRUCKS, 6-PERSONNEL, 2 RESPONSE BOATS

ITEM 2 – HAZMAT UNIT, SCBA'S, PPE (LEVEL "A", LEVEL "B", LEVEL "C" DRESS, GLOVES BOOTIES), SORBENTS (UNIVERSAL PADS, BOOM, AND FLOOR DRY), NUETRALIZERS (SODIUM BICARBINATE, SODA ASH, LIME), CHEMICAL TRANSFER PUMP (SUCTION AND DISCHARGE HOSES), STORAGE CONTAINERS (SALVAGE DRUMS, OVERPACKS), MONITORING EQUIPMENT (LEL, O2, S02, H2S BENZENE, PH), CASCADE SYTEM (5 BOTTLE RACK AND COMPRESSOR), ENOUGH SUPPORT FOR A FOUR MAN ENTRY TEAM

ITEM 3 – ASBESTOS UNIT, 6 HALF-FACE RESPIRATORS, 2 LADDERS, 3 HEPAVACS, 2 CASES OF TYVEK SUITS, 20 BOXES OF NITRILE GLOVES, 12 DOZEN PVC GLOVES, 1 CASE OF BOOT COVERS, VALVES AND TOOLS

ITEM 4 - AIR MONITORING UNIT, MSA PASSPORT (LEL, O2, H2S, CO) MSA QUICK DRAW PUMP (VARIOUS TUBES AS REQUIRED)

ITEM 5 – NORM MONITORING METER, LUDLUM MODEL

ITEM 6 - 16 FT, 10" BOOM TRAILER, 1000FT OF BOOM (ANCHORS, ROPE, BOUYS, AND LIGHTS)

ITEM 7– 16 FT, 18" BOOM TRAILER, 1000FT OF BOOM (ANCHORS, ROPE, BOUYS, AND LIGHTS)

ITEM 8– 48 FT, 18" BOOM TRAILER, 4000FT OF BOOM (ANCHORS, ROPE, BOUYS, AND LIGHTS)

ITEM 9– 16 FT, 24" BOOM TRAILER, 500FT OF BOOM (ANCHORS, ROPE, BOUYS, AND LIGHTS)

ITEM 10– 16 FT TRAILER FOR TRANSPORTATION OF EQUIPMENT

ITEMS 11 – 15 - ADDITIONAL BOOM, STORED IN A WHAREHOUSE AT EACH LOCATION READY FOR LOAD OUT.

ITEM 16 – MARCO SKIMMER, SELF CONTAINED SHALLOW WATER SKIMMER POWERED BY TWIN 115HP MERCURIES, SELF STORAGE 1200 GAL., CAPABLE OF SPEED UP TO 25 KTS, RECOVERY RATE 350 GPM

ITEM 17 – LARGE DRUM SKIMMER, TDS 136; RECOVERY RATE 70 GPM

ITEM 18 – MEDIUM DRUM SKIMMER, TDS 118; RECOVERY RATE 35 GPM

ITEM 19 – SMALL DRUM SKIMMER, MAXIUM 15; RECOVERY RATE 20 GPM

ITEM 20 – ROPE MOP SKIMMER, MODEL II-A; RECOVERY RATE 10 TO 30 BBL/HOUR

ITEM 21 – MANTA RAY SKIMMER, MADE BY SLICKBAR; RECOVERY RATE 5 TO 95 GPM

ITEM 22 – SLURP SKIMMER, MADE BY SLICKBAR; RECOVERY RATE 2 TO 40 GPM

ITEM 23 – SKIM PAK SKIMMER; RECOVERY RATE 35 GPM

ITEM 24 – 32' BARGE BOAT, LARGE OPEN DECK FOR EQUIPMENT TRANSPORT OR WORK PLATFORM, TWIN 150 HP MOTORS

ITEM 25 – 30' BARGE BOAT, LARGE OPEN DECK FOR EQUIPMENT TRANSPORT OR WORK PLATFORM, TWIN 150 HP MOTOR

ITEM 26 – 28' Barge Boat

ITEM 27 – 28' RESPONSE BOAT, ALUMINUM FLAT BOAT WITH TWIN 70 HP MOTORS

ITEM 28 - 25' RESPONSE BOAT TWIN 60 OR TWIN 115 HP MOTORS

ITEM 29 – 20'RESPONSE BOAT

ITEM 30 – 26'RESPONSE BOAT, V BOTTOM, TWIN 150HP MOTORS

ITEM 31 – 16' JOHN BOAT, ALUMINUM FLAT BOAT WITH 25 HP MOTOR

ITEM 32 – 14' JOHN BOAT, ALUMINUM FLAT BOAT WITH 15 HP MOTOR

ITEM 33 – SELF EXPLANATORY

ITEM 34 – 35 BBL OIL STORAGE BARGE, 16 FT ALUMINUM, TRAILABLE

ITEM 35 – 20 BBL OIL STORAGE BARGE, 16 FT ALUMINUM, TRAILABLE

ITEMS 36 – 38 – SELF EXPLANATORY

ITEM 39 – PRESSURE WASHER, COLD WATER 3,000 PSI

ITEM 40 – STEAM CLEANER, HOT WATER MACHINE 3,000 PSI

ITEMS 41 – 42 – SELF EXPLANATORY

ITEM 43 – WASH PUMP UNIT, 2" PUMP, SUCTION HOSE, DISCHARGE HOSE, STRAINER, NOZZLE

ITEMS 44 – 69 – SELF EXPLANATORY

ITEM 70 - 185 SFPM AIR COMPRESSOR

ITEM 71 – POWERED BY 20LB PROPANE BOTTLE

ITEM 72 – 2007 KW DRUM TRUCK WITH 40 DRUM CAPACITY

ITEM 73 – 2002 DRAGON VACUUM BOXES WITH 6" VALVES

ITEM 74 – VACUUM TRUCKS - 4 – 2004/2005 INTERNATIONALS, 70 BARREL LIQUID DOT 407 SPEC
1 – 2007 KW, 90 BARREL LIQUID DOT 407/412 SPEC
6 – 2005/2006 INTERNATIONALS, 130 BARREL LIQUID DOT 9400/9900

ITEM 75 – 2005 INTERNATIONAL 9700, CARRIES ONE ROLL-OFF CONTAINER

ITEM 76 – 2002 INTERNATIONAL 9400, CARRIES TWO ROLL-OFF CONTAINERS

ITEM 77 – 2007 DRAGON ROLL TOP, 72 CUBIC YARD CONTAINER, TRAILABLE

ITEM 78 – 2002 DRAGON ROLL TOP, 40 YD ROLL-0FF TRASH CONTAINER
ITEM 79– CAPABLE OF MOVING FLAMMABLE AND NON-FLAMMABLE LIQUIDS, SLUDGES, AND SOLIDS, AND WITH THE ADDITION OF VARIOUS ATTACHMENTS, IT CAN ENHANCE TANK BOTTOM REMOVAL
ITEM 80 - 248BBL CAPACITY OIL BARGE SET, 26FT ALUMINUM, TRAILABLE

ES&H does not guarantee to have any specific item at any one of our response locations. All equipment and consumable supplies listed at each location is based on an approximation of inventory during in-house audits.

UNITED STATES ENVIRONMENTAL SERVICES, LLC

UNITED STATES ENVIRONMENTAL SERVICES, L.L.C.

December 1, 2009

Hilcorp Energy Company
Attn: Mr. Cory Johnson
1201 Louisiana Street, Suite 1400
Houston, TX 77002

Dear Mr. Johnson:

This letter serves as an agreement between United States Environmental Services, L.L.C., ("USES"), an oil and hazardous material response contractor, and Hilcorp Energy Company that in the event of a discharge from one of your facilities in Louisiana, USES will provide emergency response services, including personnel and equipment. Our response time will be in accordance with the requirements of the Oil Pollution Act of 1990. In the event that USES's resources are already committed to another incident, USES will assist you in obtaining response services from another contractor.

USES is a Coast Guard-classified Oil Spill Removal Organization (OSRO), and we comply with National Preparedness for Response Exercise Program (PREP) guidelines. Enclosed are our OSRO classifications, our latest PREP reports and our equipment list. If you require additional information, please call us.

Sincerely,

Dennis H. Schenck
Spill Division

Encl: OSRO Classifications
PREP Report
Response Equipment List

CORPORATE OFFICES • 365 Canal Street, Suite 2500, New Orleans, LA 70130 • (504) 279-9930 • (504) 566-8309
2809 E. Judge Perez Drive, P.O. Box 949, Meraux, LA 70075 • (504) 279-9934 • Fax (504) 279-9926
6338 Highway 73, Geismar, LA 70734 • (225) 673-4200 • Fax (225) 677-9549
42156 Highway 23, P.O. Box 830, Venice, LA 70091 • (504) 534-2744 • Fax (504) 534-7058
1075 Mendell Davis Drive, Jackson, MS 39212 • (601) 372-3232 • Fax (601) 372-3356
13032 Highway 67 North, Biloxi, MS 39532 • (228) 396-3866 • Fax (228) 396-3836
1855 Veterans Drive, Southaven, MS 38671 • (662) 280-3232 • Fax (662) 280-3011
3750 Halls Mill Road, Mobile, AL 36693 • (251) 662-3500 • Fax (251) 662-3400
228 Regency Park, Alabaster, AL 35007 • (205) 663-8737 • Fax (205) 663-4404
301 Old Stone Bridge, Bldg. 3, Suite 301, Goodlettsville, TN 37032 • (615) 855-0010 • Fax (615) 855-0077
950 Seaco Avenue, Deer Park, TX 77536 • (281) 867-4100 • Fax (281) 867-4101
4850 Ward Drive, Beaumont, TX 77536 • (409) 842-5700 • Fax (409) 842-5710
261 Newman Drive, Sherwood, AR 72117 • (501) 753-0522 • Fax (501) 753-1022

24-Hour Emergency Response (888) 279-9930 All Service Locations

U.S. Department of Homeland Security

United States Coast Guard

Commanding Officer
National Strike Force
Coordination Center

1461 N. Road St. (US 17N)
Elizabeth City, NC 27909
Staff Symbol:
Phone: (252) 331-6000
FAX: (252) 331-6012

16450
04-0038
November 1, 2004

United States Environmental Services, L.L.C.
Attention: Robert George
2809 E. Judge Perez Drive
P.O. Box 949
Meraux, LA 70075

Dear Robert George,

This letter serves as the official statement by the National Strike Force Coordination Center of your classification as an Oil Spill Removal Organization (OSRO) as outlined in the Coast Guard OSRO Classification Guidelines dated 27 April 2001. A copy of this letter will be kept in your company file on these premises. Please feel free to contact my staff anytime you would like to visit and review your file.

Enclosure (1) is a copy of the classification summary sheet that identifies the classifications you received based on the resource data that you provided. This summary contains your classifications by operating area and selected COTP zones. These classifications were determined using core resource and legal/attestation documents you provided. Enclosure (2) contains Response Resource Assessment Branch (formerly the OSRO Branch) and Response Resource Inventory (RRI) contact information.

This notification reflects the information contained in the RRI as of September 23, 2004. Any equipment updates, which may have been submitted by your company in the interim, are not yet reflected in this classification notification. Currently the RRAB is developing processes to more uniformly address common OSRO issues such as changes in company ownership and the acquisition of additional resources. In the event that there is a change in your company's classification, you will receive another letter attesting to your latest classification levels.

A summary of the resource totals for Temporary Storage Capacity (TSC), Effective Daily Recovery Capacity (EDRC), and shoreline protection & containment booming can be forwarded to you upon request. A synopsis of the OSRO Classification standing, along with other useful information, is available on our web site:

http://www.uscg.mil/hq/nsfweb/nsfcc/ops/OSRO/links/osroinfoonclssifiedosro.html

If you would like more information regarding your classifications or any other matter, please contact the Response Resource Assessment Branch.

Sincerely,

A.M. CRICKARD
Chief, Logistics Inventory Division
U.S. Coast Guard
By direction

2 Enclosures

OSRO CLASSIFICATIONS

United States Environmental Services, L.L.C.
2809 E. Judge Perez Drive, P.O. Box 949
Meraux, LA 70075
OSRO 38

COTP Zone	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3	Vessel MMPD	Vessel WCD1	Vessel WCD2	Vessel WCD3
Corpus Christi, TX	River or Canal			X	X			X	X
Corpus Christi, TX	Inland			X				X	
Houston, TX	River or Canal			X	X	X	X	X	X
Houston, TX	Inland			X		X		X	
Huntington, WV	River or Canal			X	X	X	X	X	X
Huntington, WV	Inland			X		X	X	X	
Lower Mississippi River	River or Canal	X	X	X	X	X	X	X	X
Lower Mississippi River	Inland	X	X	X		X	X	X	
Mobile, AL	River or Canal	X	X	X	X	X	X	X	X
Mobile, AL	Inland	X	X	X		X	X	X	
Mobile (Panama City, FL)	River or Canal	X	X	X	X	X	X	X	X
Mobile (Panama City, FL)	Inland	X	X	X		X	X	X	
Morgan City, LA	River or Canal	X	X	X	X	X	X	X	X
Morgan City, LA	Inland	X	X	X		X	X	X	
New Orleans, LA	River or Canal	X	X	X	X	X	X	X	X
New Orleans, LA	Inland	X	X	X		X	X	X	
Ohio Valley	River or Canal			X	X	X	X	X	X
Ohio Valley	Inland			X		X	X	X	
Paducah, KY	River or Canal		X	X	X	X	X	X	X
Paducah, KY	Inland			X		X	X	X	
Pittsburg, PA	River or Canal			X	X			X	X
Pittsburg, PA	Inland			X				X	
Port Arthur, TX	River or Canal			X	X	X	X	X	X
Port Arthur, TX	Inland			X		X	X	X	
St. Petersburg, FL	River or Canal			X	X	X	X	X	X
St. Petersburg, FL	Inland			X		X	X	X	
Upper Mississippi River	River or Canal			X	X	X	X	X	X
Upper Mississippi River	Inland			X		X	X	X	

June 2009

PREP Exercise Evaluation

Date(s): 7/23/2008 Year: 2008 Office: USES Meraux, LA

Actual Response Announced Exercise Unannounced Exercise **(CIRCLE)**

QI Notification SMT Table Top Facility-Owned **OSRO-Owned** **Equipment Deployment** Other

Scenario, Location: Barge laden was struck crossing the Mississippi River and sank, releasing part of its cargo of 400,000 gallons of #6 fuel oil. USES was contacted to provide spill response resources to contain and recover the oil moving down river from New Orleans.

Time Started: 3:30 AM Time Completed: 20:00 PM

Which Response Plan components were exercised? (circle each that applies)

Notifications	**Staff Mobilization**	**Response Management System**
Discharge Control	Assessment	**Containment**
Recovery	**Protection**	Disposal
Communications	**Transportation**	**Personnel Support**
Equipment Maintenance/Support	**Procurement**	Documentation

Actions, Results: USES mobilized personnel and equipment in coordination with the RP's Response Management Team. Staging areas were identified and equipment deployed into the river to contain and recover oil and protect resources, including municipal and industrial water intakes. Additional equipment was mobilized from other USES and subcontractor locations to meet RP resource requests.

Deployed Equipment was (circle): Facility-owned **OSRO-owned** Both None Deployed

Equipment Type	Amount
18" Containment boom (14 Boom Trailers)	11,300 Feet
70-Barrel Vacuum Truck	5
20'-30' Fast Response Boats	14
Workboats	3
Drum Skimmers w/ associated compressors, hoses	3
Personnel Titles	**Number**
Project Manager	1
Health & Safety Manager	1
Transportation Coord/Logistics Coord/Field Clerk	5 Total
Supervisor/Foreman	20 Total
Boat/Equipment/Vacuum Truck Operators	20 Total
Repsonse Technicians	73

Was adequate FACILITY-owned equipment deployed to respond to AMPD?	N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?	Yes
Was the equipment deployed in its intended operating environment?	Yes
Are all personnel responsible for response operations in a comprehensive training program? Describe. **Yes - personnel have current HAZWOPER qualifications, and specific training on response equipment**	Yes
Is all response equipment covered by a comprehensive maintenance program? Describe. **Yes - all equipment is maintained according to manufacturer's recommendations.**	Yes
Was all deployed equipment operational? Describe any equipment failures.	Yes

Lessons Learned	Follow Up	
Description	Name	Due Date
None		

Certifying Signature: _____ Date: 12/30/2008

UNITED STATES ENVIRONMENTAL SERVICES, L.L.C.

March 9, 2009

Michael Schoch
Hilcorp Energy Company
1201 Louisiana, Suite 1400
Houston, TX 77002

Dear Mr. Schoch:

United States Environmental Services, L.L.C. (USES) appreciates the relationship it has had servicing the environmental and industrial cleaning requirements for Hilcorp Energy Company. I apologize in advance for our delayed response, but I wanted to ensure that we listed the exact discounts for Hilcorp. Per your request and pursuant to our agreement dated November 7, 2008, USES is submitting our current, updated, Standard Schedule of Rates, dated March 1, 2009, for your files. The rates reflect a 5% discount on labor, a 10% discount on equipment and additional discounts on sorbent boom and petroleum pads. A 10% discount will be given on truckload purchases of sorbents, and USES will charge all subcontracted charges and non-scheduled equipment, services and supplies at Cost plus 15%. This schedule will go into effect on March 23, 2009 for purposes of our contract.

Please acknowledge receipt of this notification by signing below and returning to me by either fax (504.910.9611) or e-mail (kmills@usesgroup.com).

If you have any questions, please feel free to contact us at your convenience at our New Orleans Corporate Office, 504-279-9930.

Again, thank you for your time and interest, and we look forward to serving you in the future.

Sincerely,

Kate E. Mills

Kate E. Mills
Corporate Contracts Manager

cc: Thomas P. Bayham
Chief Administrative Officer

Acknowledged and Accepted:	
Signature	
Name	Michael Schoch
Title	DIRECTOR; REG/ENV/SAFETY
Date	3/13/09

UNITED STATES ENVIRONMENTAL SERVICES, L.L.C.

United States Environmental Services, L.L.C.

Standard Schedule of Rates for Hilcorp Energy Company

1-888-279-9930

March 1, 2009

Additional Qualifiers for Hilcorp Energy Company

1. A 10% discount will be given on truckload purchases of sorbents.
2. Subcontractor charges and non-scheduled equipment, services, and supplies will be charged at Cost plus 15%.

LABOR

Industrial--Planned Action Work--Oil Spill Response

"Oil" is defined as crude oil, bunker oils or other petroleum products that are not listed or defined as DOT hazardous materials, OSHA regulated hazardous substances, CERCLA hazardous substances or RCRA hazardous waste.

	Hourly Rate Straight Time	Hourly Rate Overtime	Discounted Hourly Rates Straight Time	Discounted Hourly Rates Overtime
Epidemiologist	$125.00	$150.00	$118.75	$142.50
Certified Industrial Hygienist	$110.00	$135.00	$104.50	$128.25
Senior Project Manager	$100.00	$125.00	$95.00	$118.75
Chemist, Geologist, Biologist or other professional position	$80.00	$120.00	$76.00	$114.00
Safety Professional/Industrial Hygienist	$80.00	$120.00	$76.00	$114.00
Project Manager	$75.00	$112.50	$71.25	$106.88
Air Monitoring Specialist	$70.00	$105.00	$66.50	$99.75
Air Monitoring Technician	$55.00	$82.50	$52.25	$78.38
Radiation Safety Officer (RSO)	$60.00	$90.00	$57.00	$85.50
Health and Safety Manager	$60.00	$90.00	$57.00	$85.50
Transportation and Disposal Coordinator	$50.00	$75.00	$47.50	$71.25
Welder	$50.00	$75.00	$47.50	$71.25
Foreman	$46.00	$69.00	$43.70	$65.55
Logistics Administrator	$45.00	$67.50	$42.75	$64.13
Heavy Equipment Operator	$45.00	$67.50	$42.75	$64.13
Boat Operator	$42.00	$63.00	$39.90	$59.85
Mechanic	$42.00	$63.00	$39.90	$59.85
Truck Driver	$40.00	$60.00	$38.00	$57.00
Vacuum Truck Operator	$40.00	$60.00	$38.00	$57.00
Field Clerk	$38.00	$57.00	$36.10	$54.15
Recovery Technician.	$36.00	$54.00	$34.20	$51.30

Emergency Response:

Includes all materials not meeting the definition of "oil" referenced above.

	Straight Time	Overtime	Discounted Hourly Rates Straight Time	Discounted Hourly Rates Overtime
Epidemiologist	$125.00	$150.00	$118.75	$142.50
Certified Industrial Hygienist	$125.00	$150.00	$118.75	$142.50
Senior Project Manager	$120.00	$145.00	$114.00	$137.75
Safety Professional/Industrial Hygienist	$95.00	$142.50	$90.25	$135.38
Chemist, Geologist, Biologist or other professional position	$95.00	$142.50	$90.25	$135.38
Radiation Safety Officer (RSO)	$95.00	$142.50	$90.25	$135.38
Air Monitoring Specialist	$80.00	$120.00	$76.00	$114.00
Air MonitoringTechnician	$60.00	$90.00	$57.00	$85.50
Project Manager	$85.00	$127.50	$80.75	$121.13
Health and Safety Manager	$65.00	$97.50	$61.75	$92.63
Welder	$65.00	$97.50	$61.75	$92.63
Foreman	$60.00	$90.00	$57.00	$85.50
Heavy Equipment Operator	$58.00	$87.00	$55.10	$82.65
Transportation and Disposal Coordinator	$55.00	$82.50	$52.25	$78.38
Logistics Administrator	$55.00	$82.50	$52.25	$78.38
Boat Operator	$52.00	$78.00	$49.40	$74.10

Mechanic	$52.00	$78.00	**$49.40**	**$74.10**
Recovery Technician	$50.00	$75.00	**$47.50**	**$71.25**
Field Clerk	$48.00	$72.00	**$45.60**	**$68.40**
Truck Driver	$45.00	$67.50	**$42.75**	**$64.13**
Vacuum Truck Operator	$45.00	$67.50	**$42.75**	**$64.13**

Industrial Firefighting:

Battalion Chief	$175.00	$200.00	**$166.25**	**$190.00**
Firefighting Captain	$150.00	$175.00	**$142.50**	**$166.25**
Firefighting Safety Officer	$125.00	$150.00	**$118.75**	**$142.50**
Industrial Firefighter	$75.00	$112.50	**$71.25**	**$106.88**

VEHICLES, TRAILERS, VESSELS, HEAVY TRUCKS AND HEAVY EQUIPMENT

Vehicles: Daily rate & mileage charges are portal-to-portal.

Pickup truck and **automobile** mileage will be charged according to the cost per gallon of diesel fuel using the following schedule:

	Standard Rate	Discounted Rate	Unit
Gallon of Diesel ≤ $2.00	$0.60	**$0.54**	Mile
Gallon of Diesel = $2.01 - $2.50	$0.75	**$0.68**	Mile
Gallon of Diesel = $2.51 - $3.00	$0.90	**$0.81**	Mile
Gallon of Diesel = $3.01 - $3.50	$1.05	**$0.95**	Mile
Gallon of Diesel = $3.51 - $4.00	$1.20	**$1.08**	Mile
Gallon of Diesel = $4.01 - $4.50	$1.35	**$1.22**	Mile
Gallon of Diesel = $4.51 - $5.00	$1.50	**$1.35**	Mile
Gallon of Diesel = $5.01 - $5.50	$1.65	**$1.49**	Mile
Gallon of Diesel = $5.51 - $6.00	$1.80	**$1.62**	Mile
Gallon of Diesel = $6.01 - $6.50	$1.95	**$1.76**	Mile
Gallon of Diesel = $6.51 - $7.00	$2.10	**$1.89**	Mile
Gallon of Diesel = $7.01 - $7.50	$2.25	**$2.03**	Mile
Gallon of Diesel = $7.51 - $8.00	$2.40	**$2.16**	Mile

The cost per gallon of diesel fuel is based on the U.S. D.O.E. average cost for the Gulf-South Region. This average per gallon cost may be found at www.eia.doe.gov/

* If the cost of diesel fuel exceeds $8.00 per gallon, the mileage rate will increase $0.15 per every $0.50 increase in the cost of diesel fuel.

Automobile, Sport Utility Vehicle	$125.00	**$112.50**	Day
Pick-up Truck, 2WD (F-150 to F-350 or equivalent)	$150.00	**$135.00**	Day
Pick-up Truck, 2WD (F-450 to F-550 or equivalent)	$175.00	**$157.50**	Day
Pick-up Truck, 4WD (F-150 to F-350 or equivalent)	$200.00	**$180.00**	Day
Pick-up Truck, 4WD (F-450 to F-550 or equivalent)	$225.00	**$202.50**	Day
Passenger Van	$175.00	**$157.50**	Day
Stake Bed (One Ton 2WD)	$225.00	**$202.50**	Day
Stake Bed (One Ton 2WD), with hydraulic crane	$275.00	**$247.50**	Day

Vacuum Trucks and other Heavy Trucks: Charged portal-to-portal

Heavy truck (vacuum, dump, roll off, OTR, etc.) mileage will be charged according to the cost per gallon of diesel fuel using the following schedule:

Gallon of Diesel ≤ $2.00	$1.00	**$0.90**	Mile
Gallon of Diesel = $2.01 - $2.50	$1.25	**$1.13**	Mile
Gallon of Diesel = $2.51 - $3.00	$1.50	**$1.35**	Mile
Gallon of Diesel = $3.01 - $3.50	$1.75	**$1.58**	Mile
Gallon of Diesel = $3.51 - $4.00	$2.00	**$1.80**	Mile
Gallon of Diesel = $4.01 - $4.50	$2.25	**$2.03**	Mile
Gallon of Diesel = $4.51 - $5.00	$2.50	**$2.25**	Mile
Gallon of Diesel = $5.01 - $5.50	$2.75	**$2.48**	Mile
Gallon of Diesel = $5.51 - $6.00	$3.00	**$2.70**	Mile
Gallon of Diesel = $6.01 - $6.50	$3.25	**$2.93**	Mile
Gallon of Diesel = $6.51 - $7.00	$3.50	**$3.15**	Mile
Gallon of Diesel = $7.01 - $7.50	$3.75	**$3.38**	Mile
Gallon of Diesel = $7.51 - $8.00	$4.00	**$3.60**	Mile

The cost per gallon of diesel fuel is based on the U.S. D.O.E. average cost for the Gulf-South Region. This average per gallon cost may be found at www.eia.doe.gov/

* If the cost of diesel fuel exceeds $8.00 per gallon, the mileage rate will increase $0.25 per every $0.50 increase in the cost of diesel fuel.

Due to excessive fuel costs, USES will assess a fuel surcharge on vacuum truck hours-of-service. This surcharge only applies to vacuum truck time actually spent working and does not include travel time. The surcharge will apply as follows:

Cost of diesel less than $4.00/gallon: No Surcharge
Cost of diesel between $4.00 and $5.99/gallon: $5.00 per working hour.
Cost of diesel between $6.00 and $7.99/gallon: $10.00 per working hour.
Cost of diesel between $8.00 and $10.00/gallon: $15.00 per working hour.

The cost per gallon of diesel fuel is based on the U.S. D.O.E. average cost for the Gulf-South Region. This average per gallon cost may be found at www.eia.doe.gov/

Vacuum Truck, 70-80 Barrel (Operator and mileage not included)	$60.00	**$54.00**	Hour
Emergency Response	$70.00	**$63.00**	

Vacuum Truck, Stainless Steel 80 Barrel (Operator and mileage not included)	$90.00	**$81.00**	Hour
Emergency Response	$105.00	**$94.50**	
King Vac or equivalent (Operator and mileage not included)	$115.00	**$103.50**	Hour
Emergency Response	$135.00	**$121.50**	
Guzzler or equivalent (Operator and mileage not included)	$140.00	**$126.00**	Hour
Emergency Response	$150.00	**$135.00**	
Vacuum Truck Washout (Residue Only with Minimal Solids)	$350.00	**$315.00**	plus rinsate disposal
Dump Truck, to 16 Cubic Yards (Driver and mileage not included)	$55.00	**$49.50**	Hour
End-Dump Trailer with OTR (Driver and mileage not included)	$105.00	**$94.50**	Hour
Water Truck (Driver and mileage not included)	$65.00	**$58.50**	Hour
Box Trailer, Greater than 40' without Tractor	$350.00	**$315.00**	Day
Over-The-Road (OTR) Tractor (Driver, mileage, and permits not included)	$95.00	**$85.50**	Hour
OTR Standby (Not to exceed $560.00/Day)	$70.00	**$63.00**	Hour
OTR with 50 Ton Lowboy (Driver, mileage, and permits not included)	$125.00	**$112.50**	Hour
OTR with Roll Off Frame (Driver, mileage, and permits not included)	$115.00	**$103.50**	Hour
Roll Off Truck, Tri-axle with Tarp (Driver, mileage, and permits not included)	$95.00	**$85.50**	Hour
Vacuum Box (25 cubic yard)	$50.00	**$45.00**	Day
Roll-off Box (25 cubic yard)	$20.00	**$18.00**	Day
Liners, Roll-off	$35.00	**$31.50**	Each
Tank, Frac	$78.00	**$70.20**	Day
Frac Tank Containment Berm	$48.00	**$43.20**	Day
Tank, Poly Frac, 6,000-7,000 Gallons	$38.00	**$34.20**	Day

Heavy Equipment: (Does not include operator or fuel)

► **Fuel for all heavy equipment will be charged at Cost + 15%**

Backhoe, Rubber-Tire	$485.00	**$436.50**	Day
Forklift, to 5,500 LB Capacity	$175.00	**$157.50**	Day
Mini-Excavator	$385.00	**$346.50**	Day
Skid Steer Loader	$385.00	**$346.50**	Day
Cat 312 excavator or equivalent	$95.00	**$85.50**	Hour
Cat 315 excavator or equivalent	$110.00	**$99.00**	Hour
Cat 320 excavator or equivalent	$120.00	**$108.00**	Hour
Cat D4 dozer or equivalent	$75.00	**$67.50**	Hour
Cat D5 dozer or equivalent	$90.00	**$81.00**	Hour
Cat D6 dozer or equivalent	$160.00	**$144.00**	Hour
Cat D6R dozer or equivalent	$195.00	**$175.50**	Hour

Vessels*: Charged daily

Length			16'	18'	24'	28'	30' X 10'
	At Least						
	Less Than	16'	18'	24'	28'		Barge
TOTAL Horsepower	Over 300-HP				$648.00	$765.00	$720.00
	150-HP to 300-HP			$450.00	$549.00	$675.00	
	90-HP to less than 150-HP		$382.50	$427.50	$495.00	$585.00	
	50-HP to less than 90-HP	$292.50	$351.00	$382.50	$427.50		
	Less Than 50-HP	$180.00	$225.00				
	Go-Devil Motor	$225.00	$270.00				
	No Motor	$99.00	$126.00				

*** 10% discount is already reflected in the rates on the chart.**

"Goo-Gobbler" Skimming Vessels:

17' x 9' Non-Self-Propelled Barge, 500-Gallon Storage (Operator not included)	$1,100.00	**$990.00**	Day
21' Twin Motor Vessel, 25 BBL Storage (Operator not included)	$3,250.00	**$2,925.00**	Day
28' Twin Motor Vessel, 35 BBL Storage (Operator not included)	$3,850.00	**$3,465.00**	Day

► Fuel and two-cycle oil for all vessels will be charged at **Cost + 15%**.

► Vessels are equipped with paddles and personal flotation devices for **USES** personnel.

Trailers:

Response Trailer, Greater than 40'	$650.00	**$585.00**	Day
36' - 40' Response Trailer (Enclosed)	$550.00	**$495.00**	Day
32' - 35' Response Trailer (Enclosed)	$450.00	**$405.00**	Day
28' - 31' Response Trailer (Enclosed)	$350.00	**$315.00**	Day
20' - 27' Response Trailer (Enclosed)	$300.00	**$270.00**	Day
Response Trailer, Less than 20' (Enclosed)	$250.00	**$225.00**	Day
ATV (4-wheeler) Trailer	$50.00	**$45.00**	Day
ATV (4-wheeler) Trailer, All-Terrain	$75.00	**$67.50**	Day
Boom Trailer	$150.00	**$135.00**	Day
Boom Trailer with Work Boat, Motor, Pump, Spill Supplies	$350.00	**$315.00**	Day
Box Trailer (Greater than 40')	$350.00	**$315.00**	Day
Bunk Trailer, Mobile (12-16 Bunks)	$750.00	**$675.00**	Day
Command/Communications Trailer, 45' - 53'	$1,100.00	**$990.00**	Day
Command/Communications Trailer, 36' - 44'	$750.00	**$675.00**	Day
Command/Communications Trailer, 28' - 35'	$650.00	**$585.00**	Day
Confined Space Rescue Trailer (Equipment not included)	$350.00	**$315.00**	Day
Cook Trailer	$225.00	**$202.50**	Day
Equipment Trailer, Bumper-Pull, Greater than 20'	$200.00	**$180.00**	Day
Equipment Trailer, Bumper-Pull, Less than 20'	$175.00	**$157.50**	Day
Equipment Trailer, Gooseneck with Hydraulic Crane	$350.00	**$315.00**	Day
Equipment Trailer, Gooseneck Greater than 20', Dual Tandem Axle, 20K GVWR or Greater	$275.00	**$247.50**	Day

Equipment Trailer, Gooseneck Greater than 20', Low ProfileTandem Axle, 20K GVWR	$225.00	**$202.50**	Day
Freezer, Trailer-mounted walk-in with generator (Ice not included)	$250.00	**$225.00**	Day
Hazardous Categorization (HazCat) Lab Trailer	$650.00	**$585.00**	Day
Oil Spill Trailer (Enclosed) with Work Boat, Boom, Spill Supplies	$350.00	**$315.00**	Day
Tanker, MC-307 Stainless Steel	$350.00	**$315.00**	Day
Travel Trailer	$275.00	**$247.50**	Day

PUMPS, HOSE, FITTINGS AND ASSOCIATED EQUIPMENT

Pumps and Pumping Equipment:

Chemical Pumps and Equipment:

Air Diaphragm Pump, 2" Kynar	$450.00	**$405.00**	Day
Air Diaphragm Pump, 1" Polyethylene	$175.00	**$157.50**	Day
Air Diaphragm Pump, 2" Polyethylene	$275.00	**$247.50**	Day
Air Diaphragm Pump, 3" Polyethylene	$350.00	**$315.00**	Day
Air Diaphragm Pump, 2" Stainless Steel	$300.00	**$270.00**	Day
Chemical Pump, Manual	$25.00	**$22.50**	Day
Venturi Jet Pump, CPVC	$250.00	**$225.00**	Day
Venturi Jet Pump, Stainless	$175.00	**$157.50**	Day
Venturi Jet Pump, Cast Iron	$100.00	**$90.00**	Day
Venturi Jet Pump, Forged Steel	$100.00	**$90.00**	Day
LPG / Anhydrous Ammonia Pump, 3"	$800.00	**$720.00**	Day + Rebuild
Vane Pump, 2" Stainless Steel	$350.00	**$315.00**	Day
Vane Pump, 3" Stainless Steel	$450.00	**$405.00**	Day
Compressor, Corken	$1,300.00	**$1,170.00**	Day + Rebuild
Hydraulic Power Pack for Oil Skimmer	$100.00	**$90.00**	Day
Hydraulic Power Pack to 25hp	$350.00	**$315.00**	Day
Hydraulic Power Pack, 25.1 to 50hp	$450.00	**$405.00**	Day

Petroleum Pumps and Equipment:

Air Diaphragm Pump, 1" Aluminum	$100.00	**$90.00**	Day
Air Diaphragm Pump, 2" Aluminum	$150.00	**$135.00**	Day
Air Diaphragm Pump, 3" Alumnium	$175.00	**$157.50**	Day
Fuel Pump, 12 Volt	$50.00	**$45.00**	Day
Rotary Petroleum Pump, Manual	$25.00	**$22.50**	Day
Vane Pump, 2" Stainless Steel	$350.00	**$315.00**	Day
Vane Pump, 3" Stainless Steel	$450.00	**$405.00**	Day
Hydraulic Power Pack for Oil Skimmer	$100.00	**$90.00**	Day
Hydraulic Power Pack to 25hp	$350.00	**$315.00**	Day
Hydraulic Power Pack, 25.1 to 50hp	$450.00	**$405.00**	Day

Miscellaneous Pumps and Equipment:

Bulldog Pump	$60.00	**$54.00**	Day
Chemical Pump, Manual	$25.00	**$22.50**	Day
Diaphragm Pump, 3" Diesel	$225.00	**$202.50**	Day
Diaphragm Pump, 2" Diesel	$175.00	**$157.50**	Day
Drum Pump, Disposable	$25.00	**$22.50**	Each
Lutz Pump, 1"	$125.00	**$112.50**	Day
Submersible Pump, to 1"	$150.00	**$135.00**	Day
Trash Pump, 2" Diesel	$100.00	**$90.00**	Day
Trash Pump, 3" Diesel	$135.00	**$121.50**	Day
Trash Pump, 2" Gas	$90.00	**$81.00**	Day
Trash Pump, 3" Gas	$110.00	**$99.00**	Day

Hose:

Chemical Hose:

Chemical Hose, Stainless Steel Braided, 2"	$20.00	**$18.00**	Foot/Day
Chemical Hose, Teflon, 2"	$20.00	**$18.00**	Foot/Day
Chemical Hose, UHMWP or equivalent, 1"	$6.00	**$5.40**	Foot/Day
Chemical Hose, UHMWP or equivalent, 2"	$8.00	**$7.20**	Foot/Day
Chemical Hose, UHMWP or equivalent, 3"	$10.00	**$9.00**	Foot/Day
Chlorine Hose	$40.00	**$36.00**	Foot/Day+Hydrotest
LPG / Anhydrous Ammonia Hose	$20.00	**$18.00**	Foot/Day

Petroleum Hose:

Petroleum Hose, 1"	$1.50	**$1.35**	Foot/Day
Petroleum Hose, 2"	$2.00	**$1.80**	Foot/Day
Petroleum Hose, 3"	$2.50	**$2.25**	Foot/Day

Miscellaneous Hose:

Air Compressor Hose, 3/4", 50'	$15.00	**$13.50**	Day
Corrugated Polyethylene Hose, Flexible, 4" - 6"	$1.95	**$1.76**	Foot/Job
Fire Hose, 1.5" - 3.0"	$0.95	**$0.86**	Foot/Day
Fire Hose, 4.0" - 5.0"	$1.25	**$1.13**	Foot/Day
Hydraulic Hose	$2.50	**$2.25**	Foot/Day
Discharge Hose (Lay-flat hose), 1.5"-3.0", 25'	$15.00	**$13.50**	Day
Steam Hose, 1"	$1.00	**$0.90**	Foot/Day
Steam Hose, 2"	$1.50	**$1.35**	Foot/Day
Ventilation Duct Hose, 12" - 18", 25'	$50.00	**$45.00**	Day

Ventilation Duct Hose, 19" - 24", 25'	$75.00	**$67.50**	Day
Water Hose, 1/2" - 3/4", 50'	$25.00	**$22.50**	Job

Associated Fittings and Capping Kits:

Capping Kits:

Betts Emergency Unloading Valve	$350.00	**$315.00**	Day
Capping Kit, Chlorine "A"	$550.00	**$495.00**	Day + gasket replacement
Capping Kit, Chlorine "B"	$550.00	**$495.00**	Day + gasket replacement
Capping Kit, Chlorine "C"	$550.00	**$495.00**	Day + gasket replacement
Capping Kit, H_2S	$550.00	**$495.00**	Day + gasket replacement
Capping Kit, Midland	$850.00	**$765.00**	Day + gasket replacement
Cylinder Coffin	$750.00	**$675.00**	Day
Trident Quick Frame Magnetic Patch	$350.00	**$315.00**	Day
Conversion Kit, Metric Thread to Standard Pipe Thread	$350.00	**$315.00**	Day
Drum Vacuum, 2" Stainless Steel	$250.00	**$225.00**	Day
Fittings Charge for Transfers	$300.00	**$270.00**	Day
Fittings Charge for High Pressure Transfers	$450.00	**$405.00**	Day
Flowmeter, 2" Stainless Steel	$175.00	**$157.50**	Day

Gaskets:

1" Teflon/Viton	$6.00	**$5.40**	Each
1" Other Materials	$2.00	**$1.80**	Each
1.5" Teflon/Viton	$8.00	**$7.20**	Each
1.5" Other Materials	$3.00	**$2.70**	Each
2" Teflon/Viton	$10.00	**$9.00**	Each
2" Other Materials	$3.00	**$2.70**	Each
3" Teflon/Viton	$12.00	**$10.80**	Each
3" Other Materials	$4.00	**$3.60**	Each
4" Teflon/Viton	$19.00	**$17.10**	Each
4" Other Materials	$5.00	**$4.50**	Each
6" Teflon/Viton	$38.00	**$34.20**	Each
6" Other Materials	$8.00	**$7.20**	Each
Gasket Cutter Kit	$50.00	**$45.00**	Day
Gasket, Dome Lid, Teflon/Viton	$250.00	**$225.00**	Each
Gasket, Dome Lid, Other Materials	$100.00	**$90.00**	Each
Gasket Material	$200.00	**$180.00**	2' square sheet
High Pressure Gauge Test Kit	$75.00	**$67.50**	Day
"Lid Loc" Dome Clamp Set (MC-406/306 Model)	$300.00	**$270.00**	Day
"Lid Loc" Dome Clamp Set (MC-407/307 Model)	$350.00	**$315.00**	Day
Nitrogen Purge System (Includes 1 nitrogen cylinder)	$350.00	**$315.00**	Job
Rupture Disc	$75.00	**$67.50**	Each
Rupture Disc, ICD Intermodal Container	$175.00	**$157.50**	Each
Sight Glass, 2" Stainless Steel	$100.00	**$90.00**	Day
Steam Gate Valve, 1" (800#)	$20.00	**$18.00**	Day
Steam Gate Valve, 2" (800#)	$30.00	**$27.00**	Day
Stinger, Stainless Steel or Polyethylene	$65.00	**$58.50**	Day

Upon completion of projects involving chemical transfers, equipment such as pumps, hoses, gaskets, elastomers, valves, etc. will be subject to replacement/rebuilding. Any repairs, including pump rebuilds, will be invoiced at cost with no mark-up.

BOOM, SKIMMERS AND SORBENTS

Boom:

20" Containment Boom	$1.95	**$1.76**	Foot/Day
18" Containment Boom	$1.50	**$1.35**	Foot/Day
10" - 12" Containment Boom	$1.25	**$1.13**	Foot/Day
4" - 6" Containment Boom	$1.00	**$0.90**	Foot/Day
Containment Boom, Magnetic Hull Connector	$60.00	**$54.00**	Day
Boom Anchors			
22-Pound	$75.00	**$67.50**	Job
40-Pound	$125.00	**$112.50**	Job
65-Pound	$250.00	**$225.00**	Job
Anchor Marker Buoy	$40.00	**$36.00**	Job
Boom Lights, Electric Strobe	$20.00	**$18.00**	Day
Boom Lights, 12-Hour Chemical	$8.00	**$7.20**	Each

Skimmers:

Skimmer, Drum, 24"	$650.00	**$585.00**	Day
Skimmer, Drum, 36"	$750.00	**$675.00**	Day
Skimmer, Duck Bill	$25.00	**$22.50**	Day
Skimmer, Weir, 18" to 24"	$125.00	**$112.50**	Day

Sorbents:

Astrogel	$140.00	**$126.00**	Bag
Bio-Sorb	$90.00	**$81.00**	Bale

Cell-U-Sorb	$30.00	**$27.00**	Bag
Chemsorb Pillows	$18.00	**$16.20**	Each
Floor Dry	$16.00	**$14.40**	Bag
Industrial Mat, 3' x 150'	$225.00	**$202.50**	Each
Nature's Broom Absorbent, 40 lbs	$15.00	**$13.50**	Bag
Oil Gator	$28.00	**$25.20**	Bag
Oil Snare, Loose	$60.00	**$54.00**	15-lb. Box
Oil Snare, Rope, 50' Section	$80.00	**$72.00**	Bag
Sorbent Boom			
5" x 10' Section (4 Sections per Bag)	$105.00	$50.00	Bag
8" x 10' Section (4 Sections per Bag)	$155.00	$75.00	Bag
Sorbent Pads, Chemical, 100 per bale	$75.00	**$67.50**	Bale
Sorbent Pads, Petroleum, 100 per bale	$60.00	$32.00	Bale
Sorbent Roll, 3' x 100'	$120.00	**$108.00**	Roll
Sorbent Sweeps	$135.00	**$121.50**	Bale
Vermiculite, 4 cubic feet	$35.00	**$31.50**	Bag

HEALTH, SAFETY, MONITORING AND PERSONNEL PROTECTIVE EQUIPMENT

Protective Clothing:

Suits and Coveralls:

Chemical Resistant Suit, CPF-2 or Equivalent	$65.00	**$58.50**	Each
Chemical Resistant Suit, CPF-3 or Equivalent	$85.00	**$76.50**	Each
Chemical Resistant Suit, CPF-3 Fully Encapsulating	$190.00	**$171.00**	Each
Chemical Resistant Suit, CPF-3 (Encapsulating with Breathing Air Pass-Through)	$150.00	**$135.00**	Each
Chemical Resistant Suit, CPF-4 or Equivalent	$90.00	**$81.00**	Each
Chemical Resistant Suit, CPF-4 Fully Encapsulating	$235.00	**$211.50**	Each
Chemical Resistant Suit, CPF-4 (Encapsulating with Breathing Air Pass-Through)	$165.00	**$148.50**	Each
Chemical Resistant Suit, Tychem BR or Equivalent	$105.00	**$94.50**	Each
Chemical Resistant Suit, Tychem BR, Fully Encapsulating	$285.00	**$256.50**	Each
Firefighter Structural Turn-out Gear/Bunker Gear	$300.00	**$270.00**	Day
Flame Retardant Coveralls	$25.00	**$22.50**	Day
Level A, Disposable	$1,100.00	**$990.00**	Each
Level A, Disposable equipped with Breathing Air Pass-Through	$1,660.00	**$1,494.00**	Each
Level A, Flash Suit, Disposable	$3,325.00	**$2,992.50**	Each
Level D Modified (Includes 2 Tyvek/NexGen or poly-coated Tyvek coveralls & 2 pair of PVC, Nitrile or Neoprene gloves)	$50.00	**$45.00**	Man/Day
Level D Modified (Includes 2 CPF-2 coveralls and 2 pair of PVC, Nitrile or Neoprene gloves)	$140.00	**$126.00**	Man/Day
Responder (DuPont) with attached booties and gloves	$385.00	**$346.50**	Each
Responder (DuPont) Fully Encapsulating	$485.00	**$436.50**	Each
Thermopro (DuPont), coverall flash and chemical protection	$475.00	**$427.50**	Each
Tyvek/NexGen	$12.00	**$10.80**	Each
Tyvek Suit, PVC-Coated (QC or Equivalent)	$16.00	**$14.40**	Each

Gloves:

Gloves, Butyl, with inner gloves	$55.00	**$49.50**	Pair
Gloves, Inner	$1.00	**$0.90**	Pair
Gloves, Leather	$8.50	**$7.65**	Pair
Gloves, PVC, Nitrile, Neoprene, with inner gloves	$8.00	**$7.20**	Pair
Gloves, Natural Rubber/Neoprene Blend	$3.00	**$2.70**	Pair
Gloves, SilverShield or Equivalent	$6.00	**$5.40**	Pair
Gloves, Viton, with inner gloves	$75.00	**$67.50**	Pair
Gloves, PVA, with inner gloves	$35.00	**$31.50**	Pair
Gloves, Barrier, with inner gloves	$7.50	**$6.75**	Pair
Gloves, Cryogenic	$165.00	**$148.50**	Pair
Gloves, Level IV Puncture/Cut Resistant gloves	$80.00	**$72.00**	Pair

Boots and Boot Covers:

Boot, Chemical Resistant with Steel Toe	$20.00	**$18.00**	Pair/Day
Boot, Level A, Chemical Resistant with Steel Toe (Beta or Equivalent)	$30.00	**$27.00**	Pair/Day
Boot Covers, Latex	$8.00	**$7.20**	Pair
Boot Covers, SilverShield or Equivalent	$10.00	**$9.00**	Pair
Puncture Resistant Insoles	$16.00	**$14.40**	Pair
Metatarsal Guard	$10.00	**$9.00**	Pair/Day

Miscellaneous:

Chainsaw Chaps	$20.00	**$18.00**	Day
Level A Suit Pressure Test Kit	$35.00	**$31.50**	Test
Muffs, Hearing Protection, 3 Position	$5.00	**$4.50**	Day
Personal Flotation Device (For non boat crew personnel)	$15.00	**$13.50**	Day
Rain Suit	$20.00	**$18.00**	Each
Safety Vest, Fluorescent	$5.00	**$4.50**	Day
Snake Guards	$10.00	**$9.00**	Day
Splash Shield/Full Face Shield	$5.00	**$4.50**	Day
Survival Coat, Cold Weather/Flotation	$20.00	**$18.00**	Day
Survival Suit, Cold Weather/Flotation	$45.00	**$40.50**	Day
Tape, Chemical Resistant	$35.00	**$31.50**	Roll

Tape, Duct	$9.00	**$8.10**	Roll
Waders, Chest	$40.00	**$36.00**	Day
Fall Protection and Confined Space Entry Equipment:			
Confined Space Rescue Kit	$50.00	**$45.00**	Day
Confined Space Rescue Trailer (Equipment not included)	$350.00	**$315.00**	Day
Full Body Harness	$35.00	**$31.50**	Day
Life Safety Rope	$1.25	**$1.13**	Foot
Lock Out/Tag Out Kit	$50.00	**$45.00**	Job
Retrieval Tripod with Winch	$200.00	**$180.00**	Day
Stokes Stretcher with Flotation Kit	$100.00	**$90.00**	Day
Sked Rescue Stretcher W/Backboard (poly)	$100.00	**$90.00**	Day
Tank Car Entry Ladder	$30.00	**$27.00**	Day
Respiratory Protection:			
Air Hose, 50'	$12.00	**$10.80**	Section/Day
Breathing Air Trailer (Does not include ancillary equipment)	$300.00	**$270.00**	Day
Cascade System: Per Person including hip mounted unit, 50' air hose and mask	$225.00	**$202.50**	Day
Cascade System Bottle Refill	$25.00	**$22.50**	Bottle
Dust Mask, Disposable	$2.00	**$1.80**	Each
Porta Count Fit Test	$20.00	**$18.00**	Test
Porta Count Fit Test Analyzer	$100.00	**$90.00**	Day
Respirator, Advantage 1000 Chem/Bio APR	$125.00	**$112.50**	Day
Respirator, Disposable, N-95	$3.00	**$2.70**	Each
Respirator, Disposable, P-100 Particulate	$12.00	**$10.80**	Each
Respirator, Full Face, APR	$60.00	**$54.00**	Day
Respirator Cartridges, Advantage 1000 Chem/Bio	$120.00	**$108.00**	Each
Respirator Cartridges, Mercury/P-100	$60.00	**$54.00**	Pair
Respirator Cartridges, Organic Vapor/Acid Gas/ P-100	$40.00	**$36.00**	Pair
Respirator Cartridges, P-100 Particulate	$17.00	**$15.30**	Pair
Self Contained Breathing Apparatus (SCBA), Industrial	$225.00	**$202.50**	Day
Self Contained Breathing Apparatus (SCBA), NFPA-Rated	$350.00	**$315.00**	Day
SCBA Bottle Refill	$20.00	**$18.00**	Bottle
Traffic Control Equipment:			
Traffic Control Trailer with barrels, cones, signs, sign lights, signal flags, etc. for 0.25 - 1.0 mile of lane closure	$1,100.00	**$990.00**	Day
Individual barrels, cones, signs, sign lights, signal flags, etc. for less than 0.25 or greater than 1.0 mile lane closure	$25.00	**$22.50**	Each/Day
Traffic Barricades, Water Filled	$35.00	**$31.50**	Day
Flashing Arrow Trailer, Solar Powered	$250.00	**$225.00**	Day
Traffic Wand LED Light	$10.00	**$9.00**	Day
Traffic Safety Vest	$5.00	**$4.50**	Day
Traffic Control Supervisor	$75.00/Hr, $112.50/OT	**$71.25**/Hour	**$106.88**/OT Rate
Traffic Control Technician	$55.00/Hr, $82.50/OT	**$52.25**/Hour	**$78.38**/OT Rate
Field Instrumentation and Related Supplies:			
Air Monitoring Equipment:			
4-Gas Meter Plus PID	$275.00	**$247.50**	Day
Benzene Meter	$300.00	**$270.00**	Day
Compound-specific filter tube	$15.00	**$13.50**	Each
Colorimetric Detector Tube	$16.00	**$14.40**	Each
Colorimetric Tube Pump	$75.00	**$67.50**	Day
Combustible Gas Indicator/4-Gas Meter	$125.00	**$112.50**	Day
Jerome 431-X Portable Mercury Vapor Analyzer	$275.00	**$247.50**	Day
Laboratory Analysis for Filter Tubes, Vacuum Canisters and Tedlar Bags	Cost + 20%	**Cost + 15%**	
Lumex Mercury Analyzer	$750.00	**$675.00**	Day
Miran SapphIRe Portable Ambient Air Analyzer	$750.00	**$675.00**	Day
OVA (FID)	$300.00	**$270.00**	Day
OVM (PID)	$250.00	**$225.00**	Day
OVM (PID), ppbRAE	$300.00	**$270.00**	Day
Random Aerosol Monitor (Mini Ram)	$150.00	**$135.00**	Day
Sampling Pump, Personnel	$50.00	**$45.00**	Day
Sampling Tube, Charcoal	$10.00	**$9.00**	Tube
Sampling Tube, PUF	$30.00-60.00	**$27.00-54.00**	Tube
Sampling Tube, Silica Gel	$18.00	**$16.20**	Tube
Sampling Tube, TDT	$75.00	**$67.50**	Tube
Sampling Tube, Teflon/Tygon, to 1/4" I.D.	$4.00	**$3.60**	Foot
Tedlar Bag	$60.00	**$54.00**	Bag
Toxic Gas Detector, Multiple Gases	$225.00	**$202.50**	Day
Toxic Gas Detector, Single Gas	$150.00	**$135.00**	Day
Toxic Gas Detector, Single Gas - Personal	$35.00	**$31.50**	Day

Vacuum Canister	$55.00	**$49.50**	Canister
Weather Station, Portable with Computer Interphase	$225.00	**$202.50**	Day
Testing/Sampling Equipment:			
Bailer, Polyethylene (Disposable)	$20.00	**$18.00**	Each
Biological Threat Alert Kit	$250.00	**$225.00**	Day
Biological Threat Tests	$75.00	**$67.50**	Each
Clor-N-Oil Test Kit	$30.00	**$27.00**	Each
Clor-N-Soil Test Kit	$42.00	**$37.80**	Each
Clor-D-Tect Test Kit	$36.00	**$32.40**	Each
Coliwasa, Disposable Glass	$18.00	**$16.20**	Each
Conductivity Meter	$75.00	**$67.50**	Day
HazCat Testing			
Hazardous Categorization (HazCat) Lab Trailer	$650.00	**$585.00**	Day
HazCat Kit	$75.00	**$67.50**	Day
Portable Vented Hood with Explosion Proof Exhaust Fan	$150.00	**$135.00**	Day
Sample (7 Step Process for Unknowns)	$6.00	**$5.40**	Sample
Additional Tests	$1.00	**$0.90**	Each
Cyanide Test Kit	$65.00	**$58.50**	Kit
Interface Probe, Oil/Water	$175.00	**$157.50**	Day
Ohm Meter for Ground Testing	$100.00	**$90.00**	Day
pH Indicator Spray	$15.00	**$13.50**	Liter
pH Indicator Strips	$35.00	**$31.50**	Pack
pH Meter	$75.00	**$67.50**	Day
pH Pen	$30.00	**$27.00**	Day
Radiation Survey Meter	$150.00	**$135.00**	Day
Sample Bottles, 4-12 ounce	$6.00	**$5.40**	Each
Sample Bottles, 16-32 ounce	$8.00	**$7.20**	Each
Sample Bottles, VOC	$12.00	**$10.80**	Each
Sample Kit	$30.00	**$27.00**	Each
Soil Auger, Stainless Steel	$55.00	**$49.50**	Day
Thermometer, Infrared Laser	$65.00	**$58.50**	Day

TOOLS AND RELATED EQUIPMENT, HAND AND POWER

Air Compressor, to 12 CFM	$65.00	**$58.50**	Day
Air Compressor, trailer-mounted (110 - 185 CFM)	$225.00	**$202.50**	Day
Air Compressor, trailer-mounted (250 CFM)	$275.00	**$247.50**	Day
Air Horn	$50.00	**$45.00**	Day
Blower, Leaf	$80.00	**$72.00**	Day
Chain, 3/8" to 5/8", 25'	$10.00	**$9.00**	Day
Chain Saw	$85.00	**$76.50**	Day
Chop Saw	$85.00	**$76.50**	Day
Chop Saw Blade	$30.00	**$27.00**	Each
Coppus Blower	$65.00	**$58.50**	Day
Cutting Torch, Gauges & Gas (1 oxygen & 1 acetylene cylinder)	$200.00	**$180.00**	Day
Drill, Pneumatic	$35.00	**$31.50**	Day
Drill Kit, Pneumatic for drilling tankers	$150.00	**$135.00**	Day
Exhaust Blower, Non-Intrinsically Safe	$45.00	**$40.50**	Day
Extension Cord, Electrical	$8.00	**$7.20**	Day
Fan, Industrial 36" - 48", Non-Intrinsically Safe	$35.00	**$31.50**	Day
Fan, Intrinsically-Safe Blower/Exhaust with 50' Duct	$125.00	**$112.50**	Day
Flare Stand, Portable 2" - 4"	$325.00	**$292.50**	Day+Assist Gas
Hand Tools (Shovels, Rakes, Nets, Pitchforks, etc.)	$20.00	**$18.00**	Each/Job
Hand Tools, Non-Sparking	$20.00	**$18.00**	Per Tool
Hand Tools, Pneumatic, Miscellaneous	$35.00	**$31.50**	Day
Hand Tools, Power (Skill Saw, Reciprocating Saw, Drill, Band Saw, etc.)	$25.00	**$22.50**	Day
Heat Gun	$35.00	**$31.50**	Day
Heater, Room	$25.00	**$22.50**	Day
Heater, Torpedo (fuel not included)	$50.00	**$45.00**	Day
Impact Wrench, 1"	$50.00	**$45.00**	Day
Ladder, Step or Extension	$20.00	**$18.00**	Day
Level, Construction Laser	$100.00	**$90.00**	Day
Line Jetter, 35 GPM, 2,000 PSI	$450.00	**$405.00**	Day
Nippers, Metal Cutting, Pneumatic	$60.00	**$54.00**	Day
Pallet Jack, Pneumatic	$35.00	**$31.50**	Day
Pallet Puller	$15.00	**$13.50**	Day
Pipe Cutter and Threader (Manual)	$45.00	**$40.50**	Day
Reciprocating Saw Blade	$3.00	**$2.70**	Each
Spreader, Truck Mounted (Dry to 300-lb. Capacity)	$100.00	**$90.00**	Day
Tank Gauging Stick, 10' - 12'	$10.00	**$9.00**	Day
Tape Measure, 100' - 300'	$5.00	**$4.50**	Day
Tape, Oil Gauging (1/2" x 75')	$20.00	**$18.00**	Day
Tape, Roller-Wheel	$10.00	**$9.00**	Day
Tool Kit, Manual, SAE/Metric	$25.00	**$22.50**	Day

Vise, Portable Pipe	$25.00	**$22.50**	Day
Weed Eater, Industrial	$85.00	**$76.50**	Day
Weed Eater, Industrial, with Tiller Attachment	$95.00	**$85.50**	Day
Welding Machine, Portable with rods, hood, hand tools, etc.	$275.00	**$247.50**	Day
Wheelbarrow	$25.00	**$22.50**	Day

DECONTAMINATION, CLEANING SUPPLIES AND NEUTRALIZING AGENTS

Biological Decontamination Equipment:

Degreaser, Foaming for Food-Handling Surfaces	$16.00	**$14.40**	Quart
Foamer, Pump Sprayer	$35.00	**$31.50**	Day
Foamer, 10-gallon (Pneumatic)	$175.00	**$157.50**	Day
Foamer, 25-gallon (Pneumatic)	$225.00	**$202.50**	Day
Fogger/Fumigator, Pneumatic	$225.00	**$202.50**	Day
Hand Sanitizer, 2-oz	$4.00	**$3.60**	Bottle
Hand Sanitizer, 8-oz	$8.00	**$7.20**	Bottle
RelyOn Disinfectant	$26.50	**$23.85**	Pound of Powder
RelyOn Tablets (50 Tablets)	$37.50	**$33.75**	Jar
Sterilex Ultra Kleen Disinfectant	$55.00	**$49.50**	Gallon
Virkon-S Disinfectant	$10.00	**$9.00**	Pound of Powder

Decontamination Equipment:

Brushes, Decontamination/Scrub	$15.00	**$13.50**	Job
Brushes, Decontamination/Scrub with 4' - 6' Handle	$20.00	**$18.00**	Job
Containment Pool, Pop-up (20 gallons)	$115.00	**$103.50**	Each
Containment Pool, Pop-up (100 gallons)	$160.00	**$144.00**	Each
Emergency Shower, Portable	$100.00	**$90.00**	Day
Eye Wash Station, Portable	$20.00	**$18.00**	Day
Personnel Decon Station (1 poly pool, brushes, decon solution, rubber matting, 2 pump sprayers)	$95.00	**$85.50**	Job
Pool, Decontamination (Disposable)	$25.00	**$22.50**	Job
Pool, Decontamination, 25' x 50' (Multi-Use)	$275.00	**$247.50**	Day
Pool, Decontamination, 25' x 100' (Multi-Use)	$425.00	**$382.50**	Day
Sprayer, Pump	$38.00	**$34.20**	Job

Cleaning Supplies, Neutralizing Agents and Inoculants:

Alcohol, Isopropyl (Pesticide Grade)	$20.00	**$18.00**	Liter
Bleach, Household Strength (5%)	$8.00	**$7.20**	Gallon
Citric Acid, 50 lbs	$55.00	**$49.50**	Bag
Citrus Cleaner	$18.00	**$16.20**	Gallon
"D-Limonene"	$26.00	**$23.40**	Gallon
Degreaser, Foaming for Food-Handling Surfaces	$15.00	**$13.50**	Quart
Degreaser, General Purpose Petroleum Based	$25.00	**$22.50**	Gallon
Degreaser, Hot Tank, 55-Gallon Drum	$515.00	**$463.50**	Drum
Degreaser, Hot Tank	$12.00	**$10.80**	Gallon
Degreaser, VC Cleaner	$18.00	**$16.20**	Gallon
Degreaser, "Walter", 55-Gallon Drum	$525.00	**$472.50**	Drum
Degreaser, "Walter"	$18.00	**$16.20**	Gallon
Detergent (Dawn, Joy, etc.)	$4.00	**$3.60**	12 oz
Detergent, Liqui-Nox	$25.00	**$22.50**	Quart
Detergent, Phosphate Free (Alconox, Alcojet), 4 lbs	$35.00	**$31.50**	Box
Ferrous Sulfate, 50 lbs	$35.00	**$31.50**	Bag
Hand Cleaner	$5.00	**$4.50**	Tube
Hydrochloric/Muratic Acid (Minimum 30% Strength)	$7.00	**$6.30**	Gallon
Hydrochloric/Muratic Acid, 55-Gallon Drum	$185.00	**$166.50**	Drum
Hydrogen Peroxide, 55-Gallon Drum	$310.00	**$279.00**	Drum
"Less-Than-Ten"	$225.00	**$202.50**	5 Gallons
Lime, Agricultural, 50 lbs	$12.00	**$10.80**	Bag
Lime, Hydrated, 50 lbs	$12.00	**$10.80**	Bag
Lubricant/Rust Inhibitor (WD-40, LPS, Liquid Wrench, etc.)	$25.00	**$22.50**	Gallon
Lubricant/Rust Inhibitor (WD-40, LPS, Liquid Wrench, etc.)	$9.00	**$8.10**	12-oz Spray
Micro Blaze	$225.00	**$202.50**	5-Gallons
Micro Blaze	$2,250.00	**$2,025.00**	55-Gallon Drum
Simple Green	$18.00	**$16.20**	Gallon
Simple Green	$85.00	**$76.50**	5-Gallons
Simple Green, 55-Gallon Drum	$750.00	**$675.00**	Drum
Super Clean	$18.00	**$16.20**	Gallon
Soda Ash, 50 lbs	$16.00	**$14.40**	Bag
Sodium Bicarbonate, 50 lbs (Industrial Grade)	$22.00	**$19.80**	Bag
Sodium Hydroxide Solution (Minimum 50% Strength)	$8.00	**$7.20**	Gallon
Sodium Hydroxide Solution, 55-Gallon Drum	$250.00	**$225.00**	Drum
Sodium Hypochlorite Solution (Minimum 10% Strength)	$5.00	**$4.50**	Gallon
Sodium Hypochlorite Solution, 55-Gallon Drum	$150.00	**$135.00**	Drum
Trisodium Phosphate, 5 lbs	$12.00	**$10.80**	Bag
Trisodium Phosphate, 50 lbs	$80.00	**$72.00**	Bag

Mercury Spill Control Equipment:

Carpet Knives	$15.00	**$13.50**	Each
Exhaust Blower	$35.00	**$31.50**	Day
Heat Gun, Electric	$35.00	**$31.50**	Day
Heater, Room	$25.00	**$22.50**	Day
Heater, Torpedo (fuel not included)	$50.00	**$45.00**	Day
Jerome 431-X Portable Mercury Vapor Analyzer	$275.00	**$247.50**	Day
Lumex Mercury Analyzer	$750.00	**$675.00**	Day
Mercon Solution	$55.00	**$49.50**	Gallon
Mercon Solution, 55 Gallon Drum	$2,200.00	**$1,980.00**	Drum
Mercon Wipes (Package of 70)	$65.00	**$58.50**	Each
CS-102, 55-Gallon Drum	$2,000.00	**$1,800.00**	Drum
CS-102, 1-Gallon	$60.00	**$54.00**	Gallon
Mercury Granular Absorbent	$130.00	**$117.00**	2,500 grams
Mercury Granular Absorbent	$65.00	**$58.50**	1,000 grams
Mercury Indicator Powder	$65.00	**$58.50**	250 grams
Mercury Vacuum	$225.00	**$202.50**	Day
Torch, Propane	$20.00	**$18.00**	Day
Propane Cylinders, 20 oz	$6.00	**$5.40**	Each

FIREFIGHTING EQUIPMENT

Fire Extinguishers:			
Fire Extinguisher, Dry Chemical 20 lb unit	$10.00	**$9.00**	Day
Refill (If used)	$35.00	**$31.50**	Each
Fire Extinguisher, PKP 20 lb unit	$15.00	**$13.50**	Day
Refill (If used)	$100.00	**$90.00**	Each
Fire Extinguisher, PKP 350 lb wheeled unit	$150.00	**$135.00**	Day
Refill (If used)	$800.00	**$720.00**	Each
Fire Extinguisher, 30 lb Metal X	$20.00	**$18.00**	Day
Refill (If used)	$150.00	**$135.00**	Each
Fire Pumps and Fire Support Trailers:			
Fire Trailer with 1,100 GPM Fire Pump	$1,500.00	**$1,350.00**	Day
Fire Trailer with 2,500 GPM Fire Pump	$2,000.00	**$1,800.00**	Day
Fire Pump, Darley 575 GPM Hercules	$750.00	**$675.00**	Day
Fire Boss (Trailer-mounted twin agent fire fighting system)	$950.00	**$855.00**	Day
Refill (If used)	$1,500.00	**$1,350.00**	Each
24' Fire Support Trailer	$450.00	**$405.00**	Day
36' Fire Support Trailer	$750.00	**$675.00**	Day
36' Low Profile Gooseneck Trailer	$250.00	**$225.00**	Day
Foam and Foam Equipment:			
Foam, AFFF (3%)	$150.00	**$135.00**	5 Gallons
Foam, AFFF (3%), 55-Gallon Drum	$1,500.00	**$1,350.00**	Each
Foam, AR-AFFF, (3 x 6%)	$165.00	**$148.50**	5 Gallons
Foam, AR-AFFF, (3 x 6%), 55-Gallon Drum	$1,550.00	**$1,395.00**	Each
Foam, AR-AFFF, (3 x 3%)	$170.00	**$153.00**	5 Gallons
Foam, AR-AFFF, (3 x 3%), 55-Gallon Drum	$1,600.00	**$1,440.00**	Each
Foam, Class A (1%)	$135.00	**$121.50**	5 Gallons
Foam, Class A (1%), 55-Gallon Drum	$1,200.00	**$1,080.00**	Each
Foam, X-TRA High Expansion	$150.00	**$135.00**	5 Gallons
Foam Eductor, 1.5" 95 GPM	$100.00	**$90.00**	Day
Foam Eductor, 2.5" 250 GPM	$150.00	**$135.00**	Day
Foam Nozzle, High Expansion 25 GPM	$125.00	**$112.50**	Day
Foam Nozzle, Medium Expansion 240 GPM	$125.00	**$112.50**	Day
Foam Nozzle, 1,000 GPM Self Educting Master Stream	$125.00	**$112.50**	Day
Foam Nozzle, 500 GPM Self Educting Master Stream	$125.00	**$112.50**	Day
Fire Nozzles and Monitors:			
Cellar Nozzle, 95 GPM	$75.00	**$67.50**	Day
Cellar Nozzle, with Applicator, 95 GPM	$100.00	**$90.00**	Day
Fog Nozzle, 1.5" Automatic	$125.00	**$112.50**	Day
Fog Nozzle, Turbojet 2.5"	$175.00	**$157.50**	Day
Turbojet Nozzle, 1.5" Adjustable	$100.00	**$90.00**	Day
Monitor, 2.5" Quick Attack with 500 GPM Nozzle	$250.00	**$225.00**	Day
Monitor, 5.0" Storz Single-Inlet with 1,000 GPM Nozzle	$300.00	**$270.00**	Day
Monitor, Oscillating with Nozzle, 375 GPM	$275.00	**$247.50**	Day
Monitor, Inlet with Stacked Tips, 2.5"	$300.00	**$270.00**	Day
Stacked Tips Set for Monitor	$50.00	**$45.00**	Day
Piercing Applicator, 1.5", 125 GPM (3' or 6')	$125.00	**$112.50**	Day
Daspit Tool Rim Clamp Nozzle System	$1,500.00	**$1,350.00**	Day
Adapters, Fittings and Valves:			
Double Female Adapter, 2.5"	$15.00	**$13.50**	Day
Double Male Adapter, 2.5"	$15.00	**$13.50**	Day
Gated Valve, 2.5" NH	$60.00	**$54.00**	Day
Gated Wye, 2.5" x (2) 1.5"	$60.00	**$54.00**	Day
Hose Clamp, Hebert LDH	$50.00	**$45.00**	Day

Manifold, Storz LDH 5" x 5" x (4) 2.5"	$125.00	$112.50	Day
Manifold, Storz LDH 5" x (3) 2.5"	$125.00	$112.50	Day
Storz Gate Valve, LDH 6" NH X 5"	$125.00	$112.50	Day
Storz Gate Valve, LDH 5" Storz X 5"	$125.00	$112.50	Day
Storz Adapter, 2.5" NHF x 5"	$25.00	$22.50	Day
Storz Adapter, 4.5" Female NH x 5"	$25.00	$22.50	Day
Storz Adapter, 5" Female NH x 5"	$25.00	$22.50	Day
Storz Adapter, 6" Female NH x 5"	$25.00	$22.50	Day
Storz Outlet Siamese Clappered, (2) 2.5" x 5"	$25.00	$22.50	Day
Water Thief with (2) 1.5" x (1) 2.5"	$125.00	$112.50	Day
Water Supply Equipment:			
Basket Strainer, 6"	$15.00	$13.50	Day
Fire Hose, 1.5" - 3.0"	$0.95	$0.86	Foot/Day
Fire Hose, 4.0" - 5.0"	$1.25	$1.13	Foot/Day
Floating Strainer, 6"	$100.00	$90.00	Day
Suction Hose, 6" x 10' with Camlock fittings	$50.00	$45.00	Day
Suction Hose, 4" NH X 10'	$35.00	$31.50	Day
Suction Hose Strainer, 4" NH	$10.00	$9.00	Day
Water Tank, Folding, 2,100 gallons	$150.00	$135.00	Day
Fire Service Ladders:			
Ladder, 10' Folding Attic	$35.00	$31.50	Day
Ladder, 14' Roof with Hooks	$35.00	$31.50	Day
Ladder, 24' Extension	$35.00	$31.50	Day
Forcible Entry Tools:			
Axe, Flathead	$20.00	$18.00	Each/Job
Bolt Cutters, 18" Insulated	$20.00	$18.00	Each/Job
Houligan Tool	$20.00	$18.00	Each/Job
Pry Bar/Pinch Bar, 51"	$20.00	$18.00	Each/Job
Saw, K-12 Abrasive	$150.00	$135.00	Day
Sledge Hammer	$20.00	$18.00	Each/Job
Ventilation Equipment:			
Fan, Gasoline PPV	$150.00	$135.00	Day
Smoke Ejector, Electric	$200.00	$180.00	Day
Miscellaneous Tools and Equipment:			
Wrench, Adjustable Hydrant	$10.00	$9.00	Day
Wrench, Spanner	$5.00	$4.50	Day
Wrench, Stortz Spanner	$5.00	$4.50	Day
Thermal Imaging Camera with Wireless Transmission	$250.00	$225.00	Day

COMMUNICATIONS AND OFFICE EQUIPMENT

Cellular Phone	$15.00	$13.50	Day
Satellite Phone	$50.00	$45.00	Day
Airtime	$2.00	$1.80	Minute
Copier, Portable	$35.00	$31.50	Day
Camera, Digital	$15.00	$13.50	Day
Camera, Video	$75.00	$67.50	Day
Camera, Web	$75.00	$67.50	Day
Electronic Copies of Reports, Documents, Photographs on CD	$10.00	$9.00	Each
Fax Machine	$55.00	$49.50	Day
Global Positioning System Receiver	$15.00	$13.50	Day
Laptop Computer with Printer	$55.00	$49.50	Day
Radio, 2-way Hand-Held	$30.00	$27.00	Day
Radio, 2-way Hand-Held (Intrinsically Safe)	$60.00	$54.00	Day
Wireless Data Card for Remote Internet Access	$10.00	$9.00	Day

MISCELLANEOUS EQUIPMENT AND SUPPLIES

All-Terrain Vehicles:			
ATV (4-wheeler)	$300.00	$270.00	Day
ATV (4-wheeler) Trailer	$50.00	$45.00	Day
ATV (4-wheeler) Trailer, All-Terrain	$75.00	$67.50	Day
ATV - Utility Vehicle (Mule, Gator or equivalent)	$375.00	$337.50	Day
Amphibious 8-wheel Vehicle	$550.00	$495.00	Day
Binoculars	$10.00	$9.00	Day
Bird Scare Gun with Propane Bottle	$35.00	$31.50	Day
Propane Bottle Refills	Cost + 20%	Cost + 15%	
Blast-Resistant Container Sampler	$500.00	$450.00	Day
Butterworth Spin-Jet Nozzle, Stainless Steel	$195.00	$175.50	Day
Carbon, Vapor Phase, 55-Gallon Drum	$900.00	$810.00	Drum
Carbon Scrubber with Pre-Filters, 750 to 1,000-Gallon Unit	$500.00	$450.00	Day
Cartridge Filters, Replacement for Pre-Filters	Cost + 20%	Cost + 15%	
Carbon, Replacement	Cost + 20%	Cost + 15%	
Containment Berm, Portable (10'-15' x 10'-15')	$30.00	$27.00	Day
Containment Berm, Portable (10'-12' x 50')	$48.00	$43.20	Day

Drums and Small Containers:			
95-Gallon Poly Overpack	$250.00	**$225.00**	Each
85-Gallon Steel Recovery	$225.00	**$202.50**	Each
55-Gallon Closed/Open Top Steel (New)	$85.00	**$76.50**	Each
55-Gallon Closed/Open Top Poly (New)	$85.00	**$76.50**	Each
30-Gallon Closed/Open Top Steel (New)	$110.00	**$99.00**	Each
30-Gallon Closed/Open Top Poly (New)	$75.00	**$67.50**	Each
15-Gallon Closed/Open Top Poly (New)	$65.00	**$58.50**	Each
20-Gallon Pollution Can (New)	$25.00	**$22.50**	Each
5-Gallon Bucket with Lid	$14.00	**$12.60**	Each
5-Gallon Lab-Pack Bucket with Screw Top	$28.00	**$25.20**	Each
Box, Cubic Yard	$105.00	**$94.50**	Each
Box, Lab Pack, 55-Gallon	$35.00	**$31.50**	Each
Drum Dolly	$25.00	**$22.50**	Day
Drum Insert, 55 Gallon (Polyethylene)	$35.00	**$31.50**	Each
Drum Labels and Placards	$2.00	**$1.80**	Each
Drum Lift	$20.00	**$18.00**	Day
Drum Liners, 1.8 mil	$0.95	**$0.86**	Each
Drum Liners, 3.0 mil	$1.35	**$1.22**	Each
Drum Liners, 6.0 mil	$2.30	**$2.07**	Each
Drum Pump - Disposable	$30.00	**$27.00**	Each
Drum Wrench, Non-Sparking	$10.00	**$9.00**	Day
Fan, Cool Mist	$50.00	**$45.00**	Day
Fence, Construction Safety, 100'	$65.00	**$58.50**	Roll
Fence, Silt, 100'	$55.00	**$49.50**	Roll
Flare Stand, Portable 2" - 4"	$325.00	**$292.50**	Day
Generators, Power/Electrical:			
Generator to 4 KW	$125.00	**$112.50**	Day
Generator, 4.1 to 8 KW	$175.00	**$157.50**	Day
Generator, 8.1 to 15 KW	$225.00	**$202.50**	Day
Generator, 15.1 to 25 KW	$275.00	**$247.50**	Day
Generator, 25.1 to 35 KW	$325.00	**$292.50**	Day
Generator, 35.1 to 45 KW	$375.00	**$337.50**	Day
Generator, 45.1 to 55 KW	$400.00	**$360.00**	Day
Generator, 55.1 to 65 KW	$450.00	**$405.00**	Day
Grounding/Bonding Equipment, Rods and Cables	$10.00	**$9.00**	Each/Day
Hose Wrap, 2"	$3.00	**$2.70**	Per 25'
Hose Wrap, 4"	$9.00	**$8.10**	Per 25'
Inverter to 1000 Watts	$10.00	**$9.00**	Day
Labels and Forms:			
Drum Labels and Placards	$2.00	**$1.80**	Each
Form, Bill of Lading	$5.00	**$4.50**	Each
Form, Waste Manifest	$5.00	**$4.50**	Each
Leak Detection Liquid, Inert (8-ounce)	$10.00	**$9.00**	Day
Lighting:			
Flashlight, Intrinsically Safe	$12.00	**$10.80**	Day
Flashlight, Non-Intrinsically Safe	$6.00	**$5.40**	Day
Flood Light, Explosion Proof	$100.00	**$90.00**	Day
Light Plant, Trailer Mounted	$250.00	**$225.00**	Day
Light Stand, Portable	$35.00	**$31.50**	Day
Streamlight "Lite Box" 20-Watt Hand Lantern	$20.00	**$18.00**	Day
Lock Out/Tag Out Kit	$50.00	**$45.00**	Job
NFPA 704 Marking System, Magnetic	$10.00	**$9.00**	Day
Pallet	$20.00	**$18.00**	Job
Paste, Kolor Kut	$8.00	**$7.20**	Tube
Plugging, Epoxy Stick	$12.00	**$10.80**	Each
Plugging/Patching Kit	$50.00	**$45.00**	Plug/Patch
Polyethylene Bags, 6 mil (50" x 33")	$85.00	**$76.50**	Roll of 50
Polyethylene Sheeting, 20' x 100', 4 mil	$85.00	**$76.50**	Roll
Polyethylene Sheeting, 20' x 100', 6 mil	$105.00	**$94.50**	Roll
Polyethylene Sheeting, 40' x 100', 4 mil	$160.00	**$144.00**	Roll
Polyethylene Sheeting, 40' x 100', 6 mil	$195.00	**$175.50**	Roll
Pressure Washing Equipment:			
Hydroblaster, to 10,000 psi	$575.00	**$517.50**	Day
Hydroblaster, 10,001 to 20,000 psi	$675.00	**$607.50**	Day
Pressure Washer	$150.00	**$135.00**	Day
Pressure Washer Hose, 50' (3,500 psi)	$25.00	**$22.50**	Day
Pressure Washer Nozzle, Turbo (3,500 psi)	$20.00	**$18.00**	Day + Rebuild
Pressure Washer Wand, Telescopic (3,500 psi)	$25.00	**$22.50**	Day
Pressure Washer-Hot Water	$225.00	**$202.50**	Day
Pressure Washer-Hot Water, trailer-mounted, self-contained	$500.00	**$450.00**	Day
Rope:			
Polypropylene:			
1/4", 600' spool	$35.00	**$31.50**	Spool
1/4" (<1/2 spool)	$0.18	**$0.16**	Foot

3/8", 600' spool	$65.00	**$58.50**	Spool
3/8" (<1/2 spool)	$0.20	**$0.18**	Foot
1/2", 600' spool	$120.00	**$108.00**	Spool
1/2" (<1/2 spool)	$0.25	**$0.23**	Foot
3/4", 600' spool	$180.00	**$162.00**	Spool
3/4" (<1/2 spool)	$0.45	**$0.41**	Foot
Poly-Dacron/Nylon:			
3/8", 600' spool	$130.00	**$117.00**	Spool
3/8" (<1/2 spool)	$0.45	**$0.41**	Foot
1/2", 600' spool	$250.00	**$225.00**	Spool
1/2" (<1/2 spool)	$0.85	**$0.77**	Foot
3/4", 600' spool	$350.00	**$315.00**	Spool
3/4" (<1/2 spool)	$1.20	**$1.08**	Foot
Shelter, Pop-up (10' x 10')	$35.00	**$31.50**	Day
Silicone Caulk	$12.00	**$10.80**	Tube
Stakes, Wood	$1.50	**$1.35**	Each
Storage Tanks, Bulk:			
Tank, Polyethylene to 2,000 Gallons	$75.00	**$67.50**	Day
Tote Container, Polyethylene	$35.00	**$31.50**	Day
Stress Relief (sports drinks, bottled water, vitamin water etc.)	$10.00	**$9.00**	Man/Day
Stretch Wrap	$27.00	**$24.30**	Roll
"T" Post	$7.00	**$6.30**	Each
"T" Post Driver	$10.00	**$9.00**	Day
Table, Polyethylene	$12.00	**$10.80**	Day
Tape:			
Barrier	$20.00	**$18.00**	Roll
Chemical Resistant	$35.00	**$31.50**	Roll
Duct	$9.00	**$8.10**	Roll
Electrical	$2.00	**$1.80**	Roll
Teflon	$3.00	**$2.70**	Roll
Tarpaulin, 15' x 15'	$25.00	**$22.50**	Day
Teflon Packing Material	$60.00	**$54.00**	1-lb/Roll
Tubing, Teflon/Tygon, to 1/4" I.D.	$5.00	**$4.50**	Foot
Vacuum Equipment:			
Drum Vacuum, 2" Stainless Steel	$275.00	**$247.50**	Day
HEPA Vacuum	$175.00	**$157.50**	Day
Line Jetter, 35 GPM, 2,000 PSI	$450.00	**$405.00**	Day
Mercury Vacuum	$225.00	**$202.50**	Day
Wet/Dry Vacuum	$50.00	**$45.00**	Day

Terms and Conditions

1. Personnel are charged Portal-to-Portal, with a four-hour minimum upon activation.
2. Straight Time rates apply to the first eight hours worked between 0800 and 1200, and between 1300 and 1700 Monday through Friday. All other hours worked, including Saturdays, Sundays and holidays, will be charged at the Overtime rate, except that Christmas Day shall be charged at double the Straight Time rate. The following are paid holidays for USES employees: New Years Day, Mardi Gras Day (Mobile and Louisiana Offices only), Good Friday, Memorial Day, Independence Day, Labor Day, and Thanksgiving Day. When these holidays fall on a weekend, the nearer weekday will be charged at the Overtime rate as well.
3. Subsistence will be charged at $125.00 per day per person for work performed fifty miles from the employee's normal U.S. Environmental Services location when overnight accommodations are required. When overnight accommodations are not required, but work exceeds 12 hours, $40.00 per day per person will apply to cover meals and incidentals.
4. To ensure proper hydration, ice, water and sports drinks will be provided to site workers at a charge of $10.00 per employee per day (will appear as "Stress Relief" on the invoice).
5. Response to incidents involving chemical or biological terrorism, real or perceived, will be charged at 1.5 times the referenced rate schedule.
6. Subcontractor charges and non-scheduled equipment, services, and supplies will be charged at **Cost plus 15%.**
7. Applicable federal, state and local taxes, except income and ad valorem, as they pertain to services, equipment rental, sales of material, manufacturer repair, delivery and/or transportation shall be charged to the customer.
8. Certificates of Insurance will be issued upon request, and include coverage for Workers' Compensation, U.S. Longshoremen and Harbor Workers' Act, Jones Act, General Liability, Ship Repairers, Terminal Operators, and automobile/vehicle.
9. Equipment is billed portal-to-portal, from time of activation.
   a. Equipment billed on an hourly basis will be billed for a minimum of four hours upon activation.
   b. Equipment billed on a daily basis will be billed for a full day upon activation, unless the response is canceled within the first four hours, and the equipment has not been used, in which case it will be charged at half the daily rate.
   c. Equipment held in reserve, either on site or at the dispatch point, for the exclusive benefit of the customer, will be billed at a standby rate equal to half the standard rate until released by the customer.
   d. Equipment damaged beyond economical repair, and not the fault of USES, will be replaced at the customer's expense with no mark up.
10. Disposal of recovered product, contaminated materials and all waste materials (hazardous and non-hazardous) is the customer's responsibility and liability. USES does not take ownership, responsibility or liability of materials and wastes. The customer understands and agrees that USES (a) has not caused or created the environmental conditions that are the subject of our services; (b) have not, and do not, and will not, own or take title to the material, substances, wastes, or contaminated media that are addressed as part of our services or that we may collect, containerize, excavate, accumulate or dispose of as part of our services. The customer agrees to indemnify USES and hold us harmless from and against all claims, costs, losses and damages arising out of or relating to (x) any existing environmental condition that is the subject of our services; (y) any allegation or claim that we are liable as an owner or operator; or (z) any allegation or claim that we are liable as a handler, generator, arranger, transporter, treater, storer or disposer of any material, wastes, substances or contaminated media.

11. USES will charge a waste storage fee for waste materials that are transported to a secure USES facility for storage pending disposal. A charge of $25.00/drum/job and $75.00/rolloff container/job will apply. This fee will only be charged when the waste material is stored at a secure facility owned or operated by USES.
12. All operations are conducted at the direction of the customer; however, USES retains the exclusive right to make specific assignments of equipment operators and crews for response operations. USES supervisors and employees shall not be required to perform any operations they consider unsafe or illegal.
13. A restocking, equipment decontamination and maintenance charge will apply to each response trailer following an emergency response. This charge will be on a Time and Materials basis.
14. **Only Applies to Mississippi Projects Involving Soil Excavation:** In order to comply with the Mississippi State Tax Codes (Mississippi Code Annotated, Section 27-65-21), please be advised that projects involving the excavation of soil will be subject to the following rate schedule adjustments and/or taxes:
    a. Non-residential projects involving the excavation of soil that have a value of $10,000.00 or less will be subject to 7% Mississippi State Sales Tax. The only exceptions are local, state and federal governmental agencies.
    b. All residential projects involving the excavation of soil will be subject to 7% Mississippi State Sales Tax regardless of the project value. The only exceptions are local, state and federal governmental agencies.
    c. For non-residential excavation projects exceeding $10,000.00, USES is assessed a 3.5% Contractor's Tax in accordance with the Mississippi State Tax Codes (Mississippi Code Annotated, Section 27-65-21). Per Mississippi State Tax Commission regulations, this tax must be included in the contractor's rates and subcontracted services and cannot appear as a line item on the invoice. As a result, for projects over $10,000.00 involving soil excavation, USES rates for labor, equipment, materials, services and subcontracted services will be increased by a multiplier of 1.0362694 in order to comply with the Mississippi State Tax Commission. The result is that USES will recognize net revenue of $100.00; however, the customer will be charged $103.63 [i.e. a charge of $103.63 less (0.035% x 103.63) = $100.00].
    d. With regard to the markup of subcontracted services included with USES invoicing, all subcontracted services will be marked up by the applicable handling fee, 20% as per our Rate Schedule, and the multiplier of 1.0362694 will be applied against the marked up total. This will result in an effective mark-up/handling fee of 24.35% [i.e. $100.00 x 1.20% = $120.00, $120.00 x 1.0362694 = $124.35]. In effect, USES will charge $124.35, but will realize $120.00, or $124.35 less (124.35 x 0.035) = $120.00.
15. Expendable items may be subject to price increases due to market cost fluctuations. Examples of these items include PPE, sorbent materials, polyethylene sheeting, drums, drum liners, cleaning/neutralizing agents and other consumables.
16. Invoices for goods and services pursuant to these terms and conditions will be issued at the conclusion of the project or phase of project. Prompt payment is expected on all invoices, and interest at the rate of 1.5% per month will be charged on all invoices outstanding for more than 30 days. Should this rate exceed the maximum permissable charges under applicable state law then the interest rate charged will be the maximum permitted pursuant to said law. In addition to the above, USES reserves the right to stop work and remove equipment on any project or work site for which invoices are not paid within 30 days of issuance.

UNITED STATES ENVIRONMENTAL SERVICES, L.L.C.

EMERGENCY RESPONSE EQUIPMENT LIST

24-Hour Emergency Number: 888-279-9930

CORPORATE OFFICE ***24-Hour Emergency Numbers:*** ***888-279-9930 (or) 504-279-9930*** 365 Canal Street, Suite 2500 New Orleans, Louisiana 70130 Fax: 504-566-8309	***NEW ORLEANS, LOUISIANA*** ***24-Hour Emergency Numbers:*** ***504-279-9934*** 2809 East Judge Perez Drive Meraux, Louisiana 70075 Fax: 504-279-7756
BATON ROUGE, LOUISIANA ***24-Hour Emergency Numbers:*** ***888-267-4901 (or) 225-673-4200*** 6338 Highway 73 Geismar, Louisiana 70734 Fax: 225-677-9549	***VENICE, LOUISIANA*** ***24-Hour Emergency Number:*** ***985-534-2744*** 42156 Hwy. 23 South Venice, Louisiana 70091 Fax: 985-534-2013
JACKSON, MISSISSIPPI ***24-Hour Emergency Number:*** ***601-372-3232*** 1075 Mendell Davis Drive Jackson, Mississippi 39272 Fax: 601-372-3356	***BILOXI, MISSISSIPPI*** ***24-Hour Emergency Number:*** ***228-396-3866*** 13032 Hwy 67 North Biloxi, Mississippi 39532 Fax: 228-396-3836
MEMPHIS, TENNESSEE ***24-Hour Emergency Numbers:*** ***866-281-3232 (or) 662-280-3232*** 1855 Veterans Drive Southaven, Mississippi 38671 Fax: 662-280-3011	***NASHVILLE, TENNESSEE*** ***24-Hour Emergency Number:*** ***615-855-0010*** 301 Old Stone Bridge, Building 3, Suite 301 Goodlettsville, Tennessee 37072 Fax: 615-855-0077
LITTLE ROCK, ARKANSAS ***24-Hour Emergency Number:*** ***501-753-0522*** 1309 North Hills Boulevard, Suite 212 North Little Rock, Arkansas 72114 Fax: 501-753-1022	***MOBILE, ALABAMA*** ***24-Hour Emergency Number:*** ***251-662-3500*** 3750 Halls Mill Road Mobile, Alabama 36693 Fax: 251-662-3400
BIRMINGHAM, ALABAMA ***24-Hour Emergency Number:*** ***205-663-8737*** 228 Regency Park Alabaster, Alabama 35007 Fax: 205-663-4404	***HOUSTON, TEXAS*** ***24-Hour Emergency Number:*** ***281-867-4100*** 950 Seaco Ave. Deer Park, Texas 77536 Fax: 281-867-4101
BEAUMONT, TEXAS ***24-Hour Emergency Number:*** ***409-842-5700*** 4850 Ward Drive Beaumont, Texas 77705 Fax: 409-842-5710	***LAREDO, TEXAS*** ***24-Hour Emergency Number:*** ***877-398-9911*** 4401 Highway 359, Suite 1 Laredo, Texas 78046 Fax: 956-722-9914

RESPONSE EQUIPMENT (Meraux, Louisiana and Service Locations)

Containment Boom, Meraux, Louisiana

Qty (ft.)	Model	Size	Description
6000	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric
1000	Miniboom	10"	Quick Connect, 50 ft. sections, 22 oz. Fabric

*Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Meraux, Louisiana*

Qty.	Type	EDRC* (Barrels)	Description
1	Goo Gobbler	770	30" Aluminum Cylinder Skimmer
1	Goo Gobbler	616	24" Aluminum Cylinder Skimmer
1	Pelican	240	24" Aluminum Weir Skimmer
5	Vacuum Truck	500	70-Barrel Capacity

Temporary Storage Capacity, Meraux, Louisiana (Minimum in Inventory)

Qty.	Type	Capacity	Description
3	Salvage Drums	85 Gal.	Steel
3	Overpack Drums	95 Gal.	Poly
3	Open Top Drums	55 Gal.	Steel
3	Open Top Drums	55 Gal.	Poly

Vessels and Motors, Meraux, Louisiana

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Fast Response Vessel	28	2-150	35	175	2,000	4
2	Fast Response Vessel	26	2-150	35	175	2,000	4
1	Fast Response Vessel	24	2-115	35	150	1,750	4
1	Fast Response Vessel	18	90	30	150	1,500	4
12	Jon Boats	16	25	25	30	1,000	2

Transportation Equipment, Meraux, Louisiana

Qty.	Description	Qty.	Description
20	Pick-up Trucks	2	28' Boom Trailer
2	20' Oil Spill Response Trailer	4	All Terrain Vehicles with Trailers
2	12' Oil Spill Response Trailer	1	38' Gooseneck Trailer

Supplies, Consumable, Meraux, Louisiana (Minimum in Inventory)

Qty.	Description	Qty.	Description
100	Boxes, Oil Snare	7	100-count Absorbent Pads
250	8" Absorbent Boom	100	Oil Snare Rope
250	5" Absorbent Boom	1	5 Gal. pail of Micro Blaze
2	Buckets of Absorbent	4	Bundle of Pads Chemical
2	Small Bags of Vermiculite	2	Bundle of Pads Oil
1	Bucket of Citric Acid		

Personal Protective Equipment, Meraux, Louisiana

Qty.	Description	Qty.	Description
8	Level A Suits	72	Pair, PVC Gloves
248	NexGen Suits	72	Pair, Nitrile Gloves
72	Level B Suit, CPF2	74	Pair, Silver Shield Gloves
72	Level B Suit, CPF3	74	Pair, Silver Shield Booties
50	Pair, Butyl Gloves	74	Latex Booties
14	Boxes, Inner Gloves	12	Pair, Neoprene Gloves
4	Sets of Bunker Gear	12	Pairs, Cotton Gloves
12	Rain Suits	12	Pairs, Leather Work Gloves
4	Size 15 Level A Outer Boots	4	Harness, Full Body

Respiratory Protective Equipment, Meraux, Louisiana

Qty.	Description	Qty.	Description
4	SCBA 60 Minute	5	Boxes of GME P-100 type Cartridges (6ea.) 30 total
4	60 Minute Spare Air Bottles	5	Boxes of Mersorb Cartridges
5	Air Purifying Respirators		

Safety Equipment, Meraux, Louisiana

Qty.	Description	Qty.	Description
6	Combustible Gas Detector/4-Gas Meter	2	Benzene Meter

RESPONSE EQUIPMENT (Meraux, Louisiana and Service Locations)

Pumps and Miscellaneous Supplies, Meraux, Louisiana

Qty.	Description	Qty.	Description
1	2" Poly Chem Air Diaphragm	1	Wheel Barrow Portable Air Compressor
1	1" Poly Chem Air Diaphragm	200	Ft, 2" Acid/Chemical Hose w/Stainless Steel Fittings w/Strainer
1	2" Stainless Steel Air Diaphragm	200	Ft, 2" Acid /Chemical Hose with Poly Fittings with Strainers
1	2" Gasoline Trash Pump	100	Ft, 1" Acid/Chemical Hose with Poly Fittings with Strainers
1	2" Aluminum Air Diaphragm	100	Ft, 2" Petroleum Hose with Strainers
1	1" Aluminum Air Diaphragm	100	Ft, 1" Petroleum Hose with Strainers
1	Betts Evacuator Valve	100	Ft, 2" Discharge Hose with Strainers
1	Dewalt 6500 kW Generator	1	2" Double Diaphragm Poly Pump w/Teflon/Viton Elastomers
1	Pressure Washer 2600 psi w/ ext. rod	1	2" Double Diaphragm S.S. Pump w/Teflon/Viton Elastomers
1	Rebuilt Kit for Diaphragm Pumps	1	1" Double Diaphragm Aluminum Pump
8	Cans of Foam (for pluging & patching)	1	Regulator for Diaphragm Pump w/Water Condensate Filter
1	Wooden Plug and Wedge Kit (Cedar Shakes)	1	2" Wash Pump w/Related Fitting/Hose for Suction and Discharge
1	Plug Compound	100	Ft, 1" Hose w/Aluminum Fittings
2	A & E Patch Kit	100	Ft, 1 1/2" Rag Hose with Strainers
1	Trident Quick Frame Magnetic Patch		

Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, bushings, reducers and couplings.

Communications, Meraux, Louisiana

Qty.	Description	Qty.	Description
27	VHF Hand Held	30	Cellular Telephones with nationwide coverage
1	Motorola, 851-855 MHz Command Base		

River Front, Dock Barge, Marrero, Louisiana

Qty.	Description
600	Feet, 18" Containment boom

20' x 8' x 3' Twin Engine Deck Boats, Mississippi River, Louisiana

Qty.	Location
1	Marrero, Louisiana, LMR Mile 96
1	Harvey, Louisiana, LMR Mle 95
1	New Orleans, Louisiana, LMR Mile 90

Hazardous Materials Response Trailers, Three units - 16', Chalmette, Algiers and Jefferson, Louisiana

Qty.	Description	Qty.	Description
4	55 Gallon Open Top Drums	3	55 Gallon Closed Top Drums
3	Bales, 5" Absorbent Boom	4	Bales, Absorbent Pads
1	Generator	3	Rolls, 6 Mil Visquene
2	Rolls, 6 Mil Pollution Bags	2	Transfer Pump
2	Cases, Protective Clothing	1	85 Gallon Recovery Drum
6	Gallons, Citra-Solv PCB Cleaner	1	Weedeater/Fuel Can
20	Boxes, Clor-N-Oil Test Kits	15	"Patch and Plug" Kits

Response Equipment Storage Boxes, Mississippi River, Algiers, Louisiana

Qty.	Description	Qty.	Description
300	Feet, 18" Containment boom	25	Gallons, Sea Wash Cleaner
5	55 Gallon Open Top Drums	25	Gallons, VC Degreaser
15	Bales, 8" Absorbent Boom	2	2.5 Gallon Chemical Sprayer
9	100' Absorbent Sweep		PPE - Coveralls, gloves
25	Bales, 100 Sorbent Pads	1	Roll, Sorbent Matting

Response Equipment Storage Boxes, two (2) units - Harvey and Belle Chasse, Louisiana

Qty.	Description	Qty.	Description
5	55 Gallon Open Top Drums	25	Gallons, Sea Wash Cleaner
15	Bales, 8" Absorbent Boom	25	Gallons, VC Degreaser
9	100' Absorbent Sweep	2	2.5 Gallon Chemical Sprayer
25	Bales, 100 Sorbent Pads		PPE - Coveralls, gloves
300	Feet, 18" Containment Boom (Client owned)		

RESPONSE EQUIPMENT (Meraux, Louisiana and Service Locations)

20 Ft. Emergency Response Equipment Trailer, Hahnville, Louisiana

Qty.	Description	Qty.	Description
500	Feet, 18" Containment Boom		PPE - Poly-Coated Tyvek Suits
15	Bales, 5" Absorbent Boom	4	Doz. PVC Gloves
30	Bales, 100 Sorbent Pads	4	95-Gallon Poly. Overpack Spill Kits

20 Ft. Emergency Response Equipment Boxes, Two (2), Amelia, Louisiana

Qty.	Description	Qty.	Description
500	Feet, 18" Containment Boom		PPE - Poly-Coated and White Tyvek, gloves
6	55 Gallon Open Top Drums	25	Bales, 100 Sorbent Pads
15	Bales, 8" Absorbent Boom		Rolls of Pollution Bags, 20-Gallon Pollution Cans

Emergency Response Equipment, Conex Box, 20' x 8' x 8', Fourchon, Louisiana

Qty.	Description	Qty.	Description
25	40' Bags of 8" Sorbent Boom		PPE - Poly-Coated Tyvek and White Tyvek
25	40' Bags of 5" Sorbent Boom	25	Bundles of Sorbent Pads
25	Bundles of Sorbent Pads	20	Rolls of Sorbent Rolls

20 Ft. Emergency Response Equipment Trailer, Lafitte, Louisiana

Qty.	Description	Qty.	Description
1,000	Feet, 18" Containment Boom	21	Bales, Sorbent Pads
2	Jon Boats, 18' with 25 HP engine	1	Gas Centrifugal Pump with Washing Setup
10	Bales, 8" Sorbent Boom		PPE - Coveralls, gloves

RESPONSE EQUIPMENT (Geismar, Louisiana and Service Locations)

Containment Boom, Geismar, Louisiana

Qty. (ft.)	Model	Size	Description
1,000	River	18"	Quick Connect,100 ft. sections, 22 oz. Fabric

*Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Geismar ,Louisiana*

Vacuum Trucl	Type	EDRC* (Barrels)	Description
Vacuum Trucl	Pelican	240	24" Aluminum Weir Skimmer
Vacuum Trucl	Vacuum Truck	500	80-Barrel Capacity

Temporary Storage Capacity, Geismar ,Louisiana (Minimum in Inventory)

Qty.	Type	Capacity	Description
10	Overpack Drums	95 Gal.	Polyethylene
10	Overpack Drums	85 Gal.	Steel
25	Open Top Drums	55 Gal.	

Vessels and Motors, Geismar, Louisiana

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
3	Jon Boats	16	25	25	30	1,000	2

Transportation Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
6	Stake Trucks	1	32' HazMat Response Trailer/Chemical Transfer Unit
18	Pick-up Trucks	1	20' Equipment Trailer for Hydrocarbon Spills
2	4-WD ATVs with trailer	1	24' Remediation/Construction Trailer
1	20' Boom Trailer	1	12' Remediation/Construction Trailer
1	32' Industrial Division Trailer	1	20' Industrial Division Trailer

Supplies, Consumable, Geismar, Louisiana (Minimum in Inventory)

Qty.	Description	Qty.	Description
25	Bales, Absorbent Boom	40	Bags, Absorbent Particulate
50	Bales, Absorbent Pads	15	Boxes, Oil Snare

Personal Protective Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
6	Level A Suits	36	Pair, PVC Gloves
40	NexGen Suits	48	Pair, Nitrile Gloves
24	Level B Suit, CPF2	12	Pair, Silver Shield Gloves
32	Level B Suit, CPF3	12	Pair, Silver Shield Booties
40	Poly-Coated Tyvek Suits	20	Latex Booties
6	Bunker Gear (used for fire fighting)	500	Pair, Inner Gloves

Respiratory Protective Equipment, Geismar, Louisiana

Qty.	Description
8	MSA Self-Contained Breathing Apparatus
8	MSA 60-Minute Spare Bottles
20	MSA Ultra Twin Respirators, Full Face

Safety Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
1	4 Gas Passport with Chlorine Sensor	1	LEL/O_2/H_2S Meter
2	Draeger Pump	2	Rae Entryrae
2	Multi Rae Plus 4-Gas with PID	1	MSA Passport
1	ITX Multi Gas with Chlorine	1	Industrial Scientific
1	Jerome Meter	1	HazCat Kit
3	MSA Orion 4 Gas		

RESPONSE EQUIPMENT (Geismar, Louisiana and Service Locations)

Pumps and Miscellaneous Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
1	3" Poly Chem Air Diaphragm	150	Feet, 3" Acid/Chemical Hose with Stainless Steel Fittings with Strainers
2	2" Poly Chem Air Diaphragm	150	Feet, 2" Acid/Chemical Hose with Stainless Steel Fittings with Strainers
2	1" Poly Chem Air Diaphragm	150	Feet, 1" Acid/Chemical Hose with Stainless Steel Fittings with Strainers
4	3" Stainless Steel Air Diaphragm	150	Feet, 2" Acid/Chemical Hose with Poly Fittings with Strainers
2	2" Stainless Steel Air Diaphragm	150	Feet, 1" Acid/Chemical Hose with Poly Fittings with Strainers
4	2" Gasoline Trash Pump	150	Feet, 2" Petroleum Hose with Strainers
1	3" Diesel Pump	100	Feet, 1" Petroleum Hose with Strainers
1	2" Aluminum Air Diaphragm	100	Feet, 2" Discharge Hose with Strainers
2	1" Aluminum Air Diaphragm	100	Feet, 1 1/2" Rag Hose with Strainers
1	Lutz Chemical Pump	1	Midland Capping Kit
2	Betts Evacuator Valve	1	Chlorine "C" Kit
1	O Ring Kit	1	Haz-Hammock
1	Iso Container Conversion Kit	1	A & E Patch Kit
1	6500 kW Generator	1	Trident Quick Frame Magnetic Patch
1	4000-watt Light Tower	1	Wheel Barrow Portable Air Compressor
1	5000-lb. Fork Lift and Pallet Jack	1	185 CFM Air Compressor
1	Drill Kit for Drilling Tankers	3	Lid Lock Dome Clamps
2	Nitrogen Cylinders with Nitrogen Purge Kit	50	Feet, 3/16 Stainless Steel Pressurehose With Related Fittings
200	Feet, No. 2 Ground wire with clamps	1	Chain Saw
4	Copper Coated Grounding Rods	1	Mercury Vacuum

Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, brushings, reducers, and couplings.

Communications, Geismar, Louisiana

Qty.	Type	Frequency	Range, Mi.	Description
8	Motorola Hand-Held	851-866 MHz	20-30	Intrinsically Safe
25	Cellular Telephones		Nationwide	Hand Held
3	GPS Units			Hand Held
5	Digital Cameras			
3	Lazer Heat Guns			

Heavy Equipment, Geismar, Louisiana

Qty.	Description
3	Bobcat Skid Steer
2	Volvo Excavator
1	Mini Excavator
5	Bobcat MT 52 Dingo
1	4-Wheel Drive John Deere Extended Hoe with Front-Loader

Industrial Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
2	10,000/20,000 psi Hydro Blaster	2	4,000 psi Hot/Cold Water Pressure Washer
1	3D Nozzel with Attachments		

Remediation/Construction Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
1	20" Toolbox (Miscellaneous Hand Tools)	1	Threading Oiler
1	4-Point Cable Harness	1	Rigid Pipe Vise
1	2" Pneaumatic Diaphragm Pump with hoses	5	Miscellaneous Pipe Wrenches (up to 48")
1	3,000 psi Pressure Washer	1	Dewalt 18V Cordless Drill, Circular Saw, Reciprocating Saw, and Work Light
4	15-Ton Shackle	1	Tap and Die Set
1	15-Ton Swivel	1	True RMS Digital Multimeter with miscellaneous electrical tools
1	Venturi Blower	1	5KW Dewalt Generator
4	10-Ton Shackle	3	3" x 20' Nylon Slings
2	10-Ton Hooks		

Comprehensive supply of hand tools, sorbent materials, placards, PPE, and other miscellaneous supplies.

RESPONSE EQUIPMENT (Venice, Louisiana and Service Locations)

Containment Boom, Venice, Louisiana

Qty. (ft.)	Model	Size	Description
4,000	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric

Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Venice, Louisiana

Qty.	Type	EDRC* (Barrels)	Description
1	Goo Gobbler	616	24" Aluminum Cylinder Skimmer
1	Drum Skimmer Gobbler	180	Mounted on 9' x 17' Platform, 5L Diesel Pump, 1600 GPH, 500 gal. Storage Capacity
1	Pelican	240	24" Aluminum Weir Skimmer

Temporary Storage Capacity, Venice, Louisiana (Minimum in Inventory)

Qty.	Type	Capacity	Description
50	Open Top Drum	55 Gal.	

Vessels and Motors, Venice, Louisiana

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Fast Response Vessel	30	2 - 200	35	150	2,500	4
1	Fast Response Vessel	26	2 - 150	35	150	2,000	4
1	Fast Response Vessel	18	90	30	150	1,500	4
4	Jon Boats	16	25	25	30	1,000	2

Transportation Equipment, Venice, Louisiana

Qty.	Description	Qty.	Description
3	Pick-up Trucks	1	28' Boom Trailer
1	20' Emergency Response Trailer		

Supplies, Consumable, Venice, Louisiana (Minimum in Inventory)

Qty.	Description	Qty.	Description
350	Bales, Sorbent Pads	250	Bales, 5" Sorbent Boom
250	Bales, 8" Sorbent Boom	25	Bags, Floor Dry

Safety Equipment, Venice, Louisiana

Qty.	Description	Qty.	Description
1	Combustible Gas Detector/4-Gas Meter		

Pumps and Miscellaneous Supplies, Venice, Louisiana

Qty.	Description	Qty.	Description
2	2" Diesel Pump	2	2" Gas Pump

Communications, Venice, Louisiana

Qty.	Type	Frequency	Range, Mi.	Description
4	VHF Hand Held	851-866 MHz	20 - 30	MTX 8000 B7
3	Cellular Telephone		Nationwide	Hand Held

18' Spill Response Trailer - Empire, Louisiana

Qty.	Description	Qty.	Description
20	Bales, Sorbent Pads	10	Two-Piece Rain Suits
4	40' Bags, 8" Sorbent Boom		PPE - Yellow and White Tyvek Suits
4	40' Bags, 5" Sorbent Boom	1	Cases, PVC Gloves
1	2" Weir Skimmers	1	2" Wash Pumps with Hoses

RESPONSE EQUIPMENT (Jackson, Mississippi and Service Locations)

Containment Boom Jackson, Mississippi

Qty. (ft.)	Model	Size	Description
2,000	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric
400	Miniboom	10	Quick Connect, 50 ft. sections, 22 oz. Fabric

*Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Jackson, MS*

Qty.	Type	EDRC* (Barrels)	Description
1	Vacuum Truck	500	70-Barrel Capacity, Stainless Steel
1	King-Vac	500	70-Barrel Capacity
1	Guzzler	500	60-Barrel Capacity
1	Goo Gobbler	616	24" Aluminum Cylinder Skimmer with Hydraulic Pack
1	Goo Gobbler	616	24" Aluminum Cylinder Skimmer with Pneumatic Pack

Temporary Storage Capacity, Jackson, Mississippi (Minimum in Inventory)

Qty.	Type	Capacity	Description
15	Overpack Drums	95 Gal.	Polyethylene
30	Overpack Drums	85 Gal.	Steel
100	Open Top Drums	55 Gal.	Steel
36	Open Top Drums	55 Gal.	Polyethylene
36	Closed Top Drums	55 Gal.	Steel
18	Closed Top Drums	55 Gal.	Polyethylene
4	Storage Tanks	1,100 Gal.	Polyethylene
1	Skid-Mounted Tank	5,000 Gal.	Steel
1	Tote-Container	250 Ga.	Polyethylene

Vessels and Motors, Jackson, Mississippi

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Fast Response Vessel	20	2 - 88	60	150	2,500	6
1	Work Boat	18	90	40	40	1,250	4
1	Work Boat	16	25	25	30	1,000	2
1	Work Boat	14	15	25	30	350	2
3	Work Boat	12				150	2

Transportation Equipment, Jackson, Mississippi

Qty.	Description	Qty.	Description
18	Pick-up Trucks	1	36' HazMat Response Trailer/Chemical Transfer Unit
1	6,000-Gallon Stainless Steel Tanker	1	53' Command/Communications Trailer
2	20' Equipment Trailer	1	53' Bunkhouse Trailer
1	16' Equipment Trailer with sides	1	32' Mobile Command Post with Field Laboratory
1	16' Oil Spill Response Trailer	1	Traffic Control Trailer with Traffic Control Equipment
1	25' Equipment Trailer with hydraulic crane	1	PPE Trailer
3	25' Gooseneck Equipment Trailer	2	25' Equipment Trailer
1	36' Response Trailer	1	18' Equipment Trailer
2	4-WD ATVs	1	8' Equipment Trailer
4	Over the Road Trucks with Roll Off Frames		

Supplies, Consumable, Jackson, Mississippi (Minimum in Inventory)

Qty.	Description	Qty.	Description
50	Bales, Sorbent Pads	10	Bags, Vermiculite
25	Bags, 8" Sorbent Boom, 40'	50	Bales, Fiberperl / Cell-u-Sorb
30	Bags, Citric Acid	25	Bags, Hydrated Lime
150	Bags, Oil-Gator	25	Bags, FloorDri
25	Bales, Chemical Pads	10	Micro-Blaze
25	Bags, Ferrous Sulfate		

Personal Protective Equipment, Jackson, Mississippi

Qty.	Description	Qty.	Description
12	Level A Suits, DuPont Tychem	200	Pair, Nitrile Gloves
1	Level A Suit Tester	200	Pair, Neoprene Gloves
20	Fully-Encap. Level B suits, CPF 3 & 4	50	Pair, SilverShield Gloves
100	Level B Suits, CPF 3	50	Pair, SilverShield Boot Covers
150	Level B Suits, CPF 2	50	Pair, Rubber Boot Covers
250	NexGen Suits	1,000	Pair, Nitrile Inner Gloves

RESPONSE EQUIPMENT (Jackson, Mississippi and Service Locations)

Breathing Air Trailer, Jackson, Mississippi

Qty.	Description
12	High Pressure (6,000 psi) Grade-D Breathing Air Cylinders

Respiratory Protective Equipment, Jackson, Mississippi

Qty.	Description
1	Breathing Air Trailer (Grade D) consisting of 12 6,000 PSI Cylinders
9	MSA Self-Contained Breathing Apparatus (SCBA), 60 minutes, including 12 NFPA-Compliant SCBAs
7	Hip-Mounted Breathing Air Units
30	Air-Purifying Respirators

Safety Equipment, Jackson, Mississippi

Qty.	Description	Qty.	Description
1	Blast Shield with Remotely-Operated Drill Press	400	Chemical-Specific Colorimetric Detector Tubes
1	HazCat Kit	1	Hydrogen Cyanide Detector
1	Portable Weather Station	1	Ammonia Detector
1	Random Aerosol Monitor (RAM)	1	Vented Exhaust Hood, Portable
3	Photoionization Detector (PID)	12	Mustang Flotation Jackets
1	Flame Ionization Detector (FID)	8	Mustang Survival/Flotation Suits
1	Lumex Portable Mercury Vapor Analyzer	1	Passport
4	Colormetric Tube Pumps	2	MSA Watchman
2	Entry Rae 4-Gas Meter	2	Radiation Survey Meter
1	Guardian Biological Agent Detector		

Pumps, Transfer and Miscellaneous Equipment, Jackson, Mississippi

Qty.	Description	Qty.	Description
1	Stainless Steel Betts Valve	1	3" Stainless Steel Vane Pump
1	Vac-U-Max Stainless Steel Drum Pump	1	LPG / Anhydrous Ammonia Pump
1	Corken Compressor (Chlorine)	1	4,300-Watt Generator
1	Nitrogen Purge System for Chemical Transfers	2	2" Stainless Steel Air Diaphragm Pump, Viton Elastomers
1	3" Flare Stack	1	2" Stainless Steel Air Diaphragm Pump, Teflon Elastomers
320	Feet, 2" Stainless Steel LPG / Anhydrous	3	1" Polypropylene Air Diaphragm Pump, Viton Elastomers
	Ammonia Transfer Hose	2	2" Polypropylene Air Diaphragm Pump, Viton Elastomers
140	Feet, 2" Resistoflex Chemical Hose	4	2" Gas Wash Pump
220	Feet, 2" Teflon Chemical Transfer Hose	4	1" Wash Pump
3	Coppus Blower	3	1 1/2"High Pressure Washer Pump
150	Feet, 2" U.H.M.W.P. Chemical Transfer Hose	2	3" Gas Trash Pump
150	Feet, 1" U.H.M.W.P. Chemical Transfer Hose	4	2" Aluminum Air Daiphragm Pump
100	Feet, 2" Chemical Transfer Hose with Poly Fittings	1	60 kw Generator
200	Feet, 1" Monel Chlorine Transfer Hose	1	Carbon Filter Unit 2000lb. Capacity
300	Feet, Hydraulic Hose	2	Biological Fogging Units
1	Magnetic Patch	1	21.7 hp Hydraulic Power Pack
1	Chlorine "C" Kit	6	2" 1000 P.S.I. Stainless Steel Shutdown Valves
1	6,600-Watt Generator	1	Remote Emergency Shutdown System (3 shutdown locations)
30	3¼ " Acme Brass Adapters	2	2" Sightglass, backflow valves
1	185 CFM Air Compressor	1	High-Pressure Steam Cleaner
1	Butterworth	1	Portable Light Tower 4000-Watt
1	Explosion-Proof Lighting	1	2" Kynar Versamatic Diaphragm Pump
1	40 KVA Generator	2	7,200-Watt Generators
1	Haz-Hammock	2	Pressure Washer-Hot Water, trailer-mounted, self-contained

Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, bushings, reducers and couplings.

Communications and Electronics, Jackson, Mississippi

Qty.	Type	Frequency	Range, Mi.	Description
12	Motorola Hand-Held	851-866 MHz	5	Intrinsically Safe
25	Cellular Telephone		Nationwide	Hand Held
10	GPS Units			Hand Held
2	Lazar Temperature Guns			
10	Digital Cameras			

Mercury Spill Equipment and Supplies, Jackson, Mississippi

Qty.	Description	Qty.	Description
2	Mercury Vacuum	25	Pounds, Mercury Granular Absorbent

15	Gallons, Mercon Solution	10	Mercury Indicator Powder

RESPONSE EQUIPMENT (Jackson, Mississippi and Service Locations)

Heavy Equipment, Jackson, Mississippi

Qty.	Description
2	4-Wheel Drive Cat Rubber-Tire Backhoe with Extend-a-hoe Attachment
1	Catepillar 320 Trackhoe
1	Catepillar D5M Bull Dozer
1	Catepillar Skid Steer (bob cat)
1	Mini Excavator
1	Sheep's foot compactor (60" drum)
1	18 Yard tandem dump truck
1	End-Dump Trailer
1	2,000 gallon water truck
1	Tractor trailer with lo-boy

Firefighting Equipment and Supplies, Jackson, Mississippi

Qty.	Description	Qty.	Description
1	Akron 536 Cellar Nozzle	1	Firefighting Trailer with foam capability and 2,500 GPM pump
1	Akron 911 Oscillating Monitor with Nozzle	1	Firefighting Trailer with foam capability and 1,100 GPM pump
1	Akron 3443 Quick-Attack Monitor	1	Firefighting Support Trailer
1	Portable Monitor	18	NFPA-Compliant Firefighting Turnout/Bunker Gear
500	Feet, 3" LDH (Supply Line) Fire Hose	10	DuPont Tychem® CPF Thermo Pro (chemical and fire-resistant,
500	Feet, 5" LDH (Supply Line) Fire Hose		level B suits)
200	Gallons, AFFF and High-Expansion Foam	8	NFPA-Compliant Self-Contained Breathing Apparatus (SCBA)
115	Gallons, X-TRA High Expansion Foam	8	Spare Bottles of Air
1	K-12 Abrasive Saw	2	350-lb. Wheeled Purple K Fire Extinguishers
1	2,100-Gallon Water Tank, Portable	6	20-lb. Cartridge Purple K Fire Extinguishers
120	Feet, 6" Suction Hose with Camlock Fittings	4	30-lb. Metal X Fire Extinguishers
1	1/2" 95 GPM in-line Foam Eductor	1	Tempest PPV Fan, Gasoline
2	2 1/2" in-line Foam Eductor	1	500 GPM Self Educting Foam Master Stream Nozzle
2	750 Cu/min 25 GPM Hi-Ex Foam Nozzle w/Eductor	1	1000 GPM Self Educting Foam Master Stream Nozzle
1	Smoke Ejector	4	1 1/2" Turbojet Nozzle w/ Pistol Grip
2	2 1/2" X (2) 1 1/2" Gated Wye	1	Elkart Chief Nozzle
1	(2)2 1/2" x 5" Storz Outlet Siamese Clappered	3	Turbojet Fog Nozzle
1	Water Thief w/(2) 1 1/2" x (1) 2 1/2"	1	6" Nercyrt Nozzle
1	LDH Manifold 5" Storz x (4) 2 1/2"	1	3" Piercing Nozzle
1	LDH Manifold 5" Storz x (3) 2 1/2"	1	Stacked Tips Set for Monitor
2	2 1/2" NH Gated Valve	1	250 GPM Medium Expansion 2 1/2" Nozzle
1	2 1/2" Double Female Adapter	6	6" x 20" Suction Hose w/ Camlock Fittings
1	2 1/2" Double Male Adapter	1	6" Basket Strainer
4	6" Female nh x 5" Storz Adapter	1	6" Floating Strainer
1	5" Female nh x 5" Storz Adaptor	1	2100 Gal. Portable/Folding Water Tank
3	4 1/2" Female nh x 5" Storz Adapter	1	Gasoline PPV Fan
2	2 1/2 nhf x 5" Storz Adapter	1	Stokes Stretcher w/Floatation Kit
1	Herbert LDH Hose Clamp	1	Long Hand Board (Plastic)
1	Eyewash Station	1	Sled
1	First Aid Kit	1	Confined Space Rescue Kit
1	Fire Boss, twin agent (AFFF Foam and PKP Extinguishing Agents)		
1	Darley Hercules Portable Fire Pump, rated at 575 GPM		
6	Radios		

Comprehensive supply of ladders, tools and accessorites, including Akron turbojet nozzles, flathead axes, pike poles, etc.

Traffic Control Equipment, Jackson, Mississippi

Qty.	Description	Qty.	Description
1	Solar Powered Arrow Board	4	Roadwork Ahead Signs
1	Truck with flashing lights	4	Right/Left Lane Closed One Mile Signs
1	24' Foot Equipment Trailer	4	Right/Left Lane Closed One-Half Mile Signs
2	Stop and Slow Flagger Paddles with 6' Staff	2	Right/Left Lane Closed 1500 Feet Signs
10	Personnel Clip On Fashing Lights	4	Lane Diversion/ Lane Ends Signs
4	Flaggers Flags	2	Reduced Speed Ahead Signs
8	Blinking Lights	2	Speed Limit 60 Signs
12	Flagman's Reflective Vests	2	One Lane Road Ahead Signs
50	Traffic Control Cones	2	Be Prepared to Stop Signs
70	Tires (to keep barrels in place)	2	Flagman Ahead Signs
180	Feet, Traffic Control Interlocking Barricades	2	Shoulder Work Signs
10	Tripod Sign Stands	2	End Road Work Signs
20	H Style Sign Stands	1	Speeding Fines Doubled When Workers Are Present Sign
4	Lighted Hand Wands	4	Blank MPH Signs
60	Traffic Control Barrels	1	Road Closed Authorized Personnel Only Sign
2	Exit Signs	1	Right Shoulder Closed w/Next xx Miles Plaque
2	Yield Signs	1	Right Shoulder Closed w/xx Feet Plaque
2	Road Work One Mile Signs	1	Left Shoulder Closed w/Next xx Miles Plaque
		1	Left Shoulder Closed w/xx Feet Plaque

RESPONSE EQUIPMENT (Memphis, Tennessee and Service Locations)

Containment Boom, Memphis, Tennessee

Qty. (ft.)	Model	Size	Description
1,800	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric
500	Large Creek	15"	Quick Connect, 100 ft. sections, 22 oz. Fabric
300	Large Creek	12"	Quick Connect, 50 ft. sections, 22 oz. Fabric
850	Miniboom (Creek)	6"	Quick Connect, 50 ft. sections, 22 oz. Fabric

*Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Memphis, Tennessee*

Qty.	Type	EDRC* (Barrels)	Description
1	Vacuum Truck	500	80-Barrel Capacity, Stainless Steel
2	Crucial	240	36" Drum Skimmer

Temporary Storage Capacity, Memphis, Tennessee (Minimum in Inventory)

Qty.	Type	Capacity	Description
8	Overpack Drums	95 Gal.	Polyethylene
8	Overpack Drums	85 Gal.	Steel
25	Open Top Drums	55 Gal.	Polyethylene
30	Open Top Drums	55 Gal.	Steel
2	Portable Tank	1,000 Gal.	Polyethylene

Vessels and Motors, Memphis, Tennessee

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Work Boat	24	2 - 115	50	70 to 80	1,000	4
2	Work Boat	16	25	20	30 to 40	800	2
5	Work Boat	14	9.9	20	30 to 40	800	2
3	Work Boat	12	9.9	20	30 to 40	800	2

Transportation Equipment, Memphis, Tennessee

Qty.	Description	Qty.	Description
7	Pick-up Trucks	1	25' Equipment Trailer with hydraulic crane
1	20' Equipment Trailer (Enclosed)	1	20' Oil Spill Response Trailer
1	16' Landscape Trailer with sides	1	16' Oil Spill Response Trailer
1	20' Equipment Trailer with sides	1	16' Enclosed PPE Trailer
1	18' Equipment Trailer w/ Bumper Pull (10,000 lbs.)		
1	36' HazMat Response Trailer/Chemical Transfer Unit with Command Center		

Supplies, Consumable, Memphis, Tennessee (Minimum in Inventory)

Qty.	Description	Qty.	Description
84	Bales, Sorbent Pads	6	Bags, Vermiculite
180	Bales, Chemical Pads	180	Bales, Oil Pads
60	Bales, 5" Sorbent Boom	8	Bags, Cell-U-Sorb
25	Bags, Citric Acid	25	Bags, Sodium Bicarbonate
180	Bags, Oil-Gator	75	Pails, 5-Gallon, Micro Blaze
25	Bags, Hydrated Lime	56	Bags, Soda Ash

Personal Protective Equipment, Memphis, Tennessee

Qty.	Description	Qty.	Description
4	Fully-Encapsulating Level A Suits	24	Pair, Nitrile Gloves
1	Level A Suit Tester	12	Pair, Butyl Gloves
24	Level B Suits, Kappler CPF 3	4	Boxes, Nitrile Inner Gloves
24	Level B Suits, Kappler CPF 2	24	Pair, Latex Boot Covers
48	NexGen (Kappler) Suits	24	Pair, SilverShield Gloves
24	Pair, PVC Gloves	24	Pair, SilverShield Foot Covers
2	Leather Work Gloves	8	Size 15 Level "A" Outer Boots
5	Sets of Bunker Gear	12	Rain Suits
5	USCG Type V Exposure Suits	4	USCG Type III Float Coats
50	Poly Tyvek Suits		

Respiratory Protective Equipment, Memphis, Tennessee

Qty.	Description
1	MSA Self-Contained Breathing Apparatus
2	MSA SCBA Spare Bottles (30-minute)
4	Hip-Mounted Breathing Air Units
4	Scott Self-Contained Breathing Apparatus
4	Scott SCBA Spare Bottles (60-minute)
600	Feet, MSA Hard Line for Breathing Air
10	Boxes, GME P-100 type Cartridges (6 ea.)
6	Boxes, MersorbCartridges
15	Air-Purifying Respirators

RESPONSE EQUIPMENT (Memphis, Tennessee and Service Locations)

Safety Equipment, Memphis, Tennessee

Qty.	Description	Qty.	Description
1	Combustible Gas Detector/4-Gas Meter	1	Colorimetric Tube Draeger Pump
2	MultiRae / 5-Gas PID	1	Ph Meter
1	UltraRae - Benzene Specific	40	H2S Meters
1	EntryRae / 5-Gas PID	1	Radiation Survey Meter
1	Haz Cat Kit	1	Handheld Weather Station
2	Colorimetric Tube MSA Pump & assortment of detector tubes		

Pumps and Miscellaneous Equipment, Memphis, Tennessee

Qty.	Description	Qty.	Description
7	Ft, 2" Teflon (TFPE) Chemical Transfer Hose	2	3" Aluminum Air Diaphragm Pump
6	Ft, 1" Chemflex Chemical Transfer Hose	1	Chlorine C Kit
250	Feet, 2" Petroleum Hose	1	Haz-Hammock
500	Feet, 3" Petroleum Hose	2	Copper Coated Grounding Rods
2	2" Trash Pumps	1	2" Wash Pump
1	3" Trash Pump	2	Lutz Electric Hydrocarbon Pump
8	Manual Hydrocarbon Pumps	2	High Pressure Rail Car Test Kit
2	Pressure washer 2600 psi		
1	Magnetic Patch Kit		
1	25 lb. Bottle LPG for Flare		
3	Rebuild Kits		
1	Self-Contained Steam Cleaner, Trailer Mounted		
1	2" Stainless Steel Air Diaphragm Pump, Viton Elastomers		
1	2" Stainless Steel Air Diaphragm Pump, Teflon Elastomers		
2	1" Polypropylene Air Diaphragm Pump, Viton Elastomers		
1	2" Polypropylene Air Diaphragm Pump, Viton Elastomers		

Communications, Memphis, Tennessee

Qty.	Type	Frequency	Range, Mi.	Description
5	Vertex Hand-Held	151-158 MHz	2-5	Intrinsically Safe
4	Marine Hand-Held/Mobile	Marine Band	2-5	Uniden
16	Cellular Telephone		Nationwide	Hand Held

RESPONSE EQUIPMENT (Nashville, Tennessee and Service Locations)

Containment Boom, Nashville, Tennessee

Quantity (ft.)	Model	Size	Description
1,000	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric
100	River	18"	Quick Disconnect 50 ft. sections, 22 oz. Fabric
200	Miniboom	6"	Quick Connect, 50 ft. sections, 22 oz. Fabric

*Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Nashville, Tennessee*

Qty.	Type	EDRC* (Barrels)	Description
1	Vacuum Truck	500	80-Barrel Capacity, Stainless Steel
1	Vacumax		

Temporary Storage Capacity, Nashville, Tennessee (Minimum in Inventory)

Qty.	Type	Capacity	Description
5	Overpack Drums	95 Gal.	Polyethylene
5	Overpack Drums	85 Gal.	Steel
10	Open Top Drums	55 Gal.	Polyethylene
25	Open Top Drums	55 Gal.	Steel

Vessels and Motors, Nashville, Tennessee

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Work Boat	16	70	35	70 to 80	1,000	2

Transportation Equipment, Nashville, Tennessee

Qty.	Description	Qty.	Description
5	Pick-up Trucks (2) F-250 and (3) F-350	1	20' Equipment Trailer
1	12' Equipment Trailer (Lab Packing/Bio Response)	1	16' Closed Type Cargo Response Trailer
1	14' Electric Lift Dump Trailer	1	10' Utility Trailer

Supplies, Consumable, Nashville, Tennessee (Minimum in Inventory)

Qty.	Description	Qty.	Description
25	Bales, Oil Absorbent Pads	20	Bags, Vermiculite
25	Bales, Chemical Pads	50	Bucket of Absorbent (floor dry)
5	Gallons of Citric Degreaser	5	Gallons of Micro Blaze
5	Gallons of Sodium Biocarbonate	50	Gallons of Citric Acid
25	Bales, 5" Sorbent Boom	50	Gallons of Soda Ash

Personal Protective Equipment, Nashville, Tennessee

Qty.	Description	Qty.	Description
4	Level A Suits (Tychem TK)	72	Pair, Leather Work Gloves
24	Level B Suits, Kappler CPF 3	24	Pair, Nitrile Gloves
24	CPF 2	24	Pair, PVC Gloves
48	Poly Coated Tyvek	12	Boxes, Nitrile Inner Gloves
12	Pair, Silver Shield Gloves	12	Pair, Butyl Gloves
12	Pair, Silver Shield Foot Covers	4	Size 15 Level A Outer Boots
12	Rain suits	12	Pair, Neoprene Gloves
4	Sets of Bunker Gear	50	Pair, Latex Boot Covers

Respiratory Protective Equipment, Nashville, Tennessee

Qty.	Description
4	MSA Self-Contained Breathing Apparatus with 30 minute bottles
4	MSA SCBA Spare Bottles (30-minute)
3	MSA Mersorb Respirator Cartridges, 6 per box
8	Air-Purifying Respirators, MSA Ultra Elite
5	Boxes of Mersorb Cartridges
5	Boxes of GME P-100 Cartridges, 6 per box

Safety Equipment, Nashville, Tennessee

Qty.	Description	Qty.	Description
1	Combustible Gas Detector/4-Gas Meter	1	Jerome 431-X Portable Mercury Vapor Analyzer
1	Miller Full Body Harness "Standard"	4	First Aid/Fire Ext./Eye Wash Stations
1	Miller Full Body Harness "Revolution"	1	Tripod Confined Space Entry/Rescue
3	Fall Protection Lanyards	1	12" Electric Air Mover w/air duct
1	Haz Cat Kit	1	Lockout/Tagout Kit (Large)
1	Complete set of Decon Equipment		

RESPONSE EQUIPMENT (Nashville, Tennessee and Service Locations)

Pumps and Miscellaneous Equipment, Nashville, Tennessee

Qty.	Description	Qty.	Description
100	Ft, 2" Chemical 200 Transfer Hose w/Poly	1	2" Stainless Steel Air Diaphragm Pump, Teflon Elastomers
200	Ft, 2" Chemical 200 Transfer Hose w/SS	100	1" Hose w/ Aluminum Fittings
200	Ft, 3" Petro. Transfer Hose	1	12 CFM Portable Air Compressor
1	2" Aluminum Double Diaphragm Pump, Buna	2	4,000 P.S.I. Pressure Washers
1	2" Poly Double Diaphragm Pump, Teflon	1	Complete Torch Kit
2	2" Wash Pump	100	Feet, 3/8" Air Hose
1	Pressure Washer 2600 psi	100	Feet, 3/8" Nitrogen Hose
1	Fire Hose w/Cam Lock Fitting	1	A-E Patch Kit
1	Plug Compound	1	Wooden Plug and Wedge Kit
4	Rebuild Kits for Each Diaphragm Pump	1	Regulator for Diaphragm Pump
2	Complete Set of S.S. and Poly Assorted Fittings	1	Haz-Hammock
2	Portable Generators 7K	1	Chlorine "C" Kit
4	Stream Lights (Portable Flash Lights Rechargable)	1	Midland Kit
3	Portable Lights	1	Pressure Relief Device O Ring Kit
1	Fire Hose, 200 ft.	1	Assorted Hose Gaskets (Viton) (Teflon) (Buna)

Communications, Nashville, Tennessee

Qty.	Type	Frequency	Range, Mi.	Description
5	Cellular Telephone		Nationwide	Hand Held

RESPONSE EQUIPMENT (Little Rock, Arkansas and Service Locations)

Containment Boom, Little Rock, Arkansas

Qty. (ft.)	Model	Size	Description
1,000	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric
500	Miniboom	6"	Quick Connect, 50 ft. sections, 22 oz. Fabric

*Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Little Rock, Arkansas*

Qty.	Type	EDRC* (Barrels)	Description
1	Guzzler	500	70-Barrel Capacity
2	Goo Gobbler	500	48" Double-Barrel Skimmer

Temporary Storage Capacity, Little Rock, Arkansas (Minimum in Inventory)

Qty.	Type	Capacity	Description
6	Roll Drum Liners		

Vessels and Motors, Little Rock, Arkansas

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Work Boat	16	25	20	30 to 40	800	2
1	Work Boat	14	20	15	15 to 20	600	2

Transportation Equipment, Little Rock, Arkansas

Qty.	Description	Qty.	Description
7	Pick-up Trucks	2	20' Gooseneck Trailer
1	24' HazMat Response Trailer	1	16' Oil Spill Response Trailer, bumper pull

Supplies, Consumable, Little Rock, Arkansas (Minimum in Inventory)

Qty.	Description	Qty.	Description
50	Bales, Sorbent Pads	20	Bales, Oil Pads
20	Bales, Chemical Pads	20	Bags, Oil Dry
10	Bales, 5" Sorbent Boom	30	Bags, Cell-U-Sorb
10	Bags, Citric Acid	10	Bags, Sodium Bicarbonate
40	Bags, Oil-Gator	10	Bags, Sodum Bisulfite
2	Pails, Absorbent (floor dry)	10	Pails, 5-Gallon, Micro Blaze
20	Bags, Hydrated Lime		

Personal Protective Equipment, Little Rock, Arkansas

Qty.	Description	Qty.	Description
4	Level A Suits	24	Pair, Nitrile Gloves
24	Level B Suits, Kappler CPF 3	24	Pair, PVC Gloves
24	Level B Suits, Kappler CPF 2	4	Boxes, Nitrile Inner Gloves
48	NexGen (Kappler) Suits	24	Pair, Latex Boot Covers
24	Pair, SilverShield Gloves	4	Size 15 Level "A" Outer Boots

Respiratory Protective Equipment, Little Rock, Arkansas

Qty.	Description
4	MSA Self-Contained Breathing Apparatus
4	MSA SCBA Spare Bottles (60-minute)
5	Boxes of GME P-100 type Cartridges (6 ea.) 30 total
5	Air-Purifying Respirators

Safety Equipment, Little Rock, Arkansas

Qty.	Description
1	Haz Cat Kit
2	Combustible Gas Detector/4-Gas Meter
1	First Aid Kit

RESPONSE EQUIPMENT (Little Rock, Arkansas and Service Locations)

Pumps and Miscellaneous Equipment, Little Rock, Arkansas

Qty.	Description	Qty.	Description
100'	Ft. 2" Double Diaphram S.S. Pump Teflon/Viton	1	Regulator for Diaphragm Pump w/ Water Condensate Filter
100'	Feet, 2" Chemical Hose w/S.S. Fittings	1	Stainless Steel Fitting Box
100'	1" Hose w/ Aluminum Fittings	1	Haz-Hammock
1	2" Double Diaphragm S.S. Pump	1	2" Double Diaphragm Poly Pump
2	1" Double Diaphragm Poly Pump	1	2" Trash Pump
1	O-Ring Kit	2	Portable Generator 5500
		1	A-E Kit

Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, bushings, reducers and couplings.

Communications, Little Rock, Arkansas

Qty.	Type	Frequency	Range, Mi.	Description
1	Nextel Two-Way Radio		Nationwide	Hand Held
14	Cellular Telephone		Nationwide	Hand Held

Heavy Equipment, Little Rock, Arkansas

Qty.	Description
1	Komatsu Mini Excavator
1	Catepillar Skid Steer (bob cat)

RESPONSE EQUIPMENT (Mobile, Alabama and Service Locations)

Containment Boom, Mobile, Alabama

Qty. (ft.)	Model	Size	Description
800	ACME, Miniboom	10"	Quick Connect, 50 ft. sections, 22 oz. Fabric
5,000	ACME, River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric

*Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Mobile, Alabama*

Qty.	Type	EDRC* (Barrels)	Description
1	Vacuum Truck	500	70-Barrel Capacity, Stainless Steel
2	Vacuum Truck	500	70-Barrel Capacity
1	Tri-axle Roll Off Truck		60,000-Pound Capacity Hoist System with Auto Tarp
1	Goo Gobbler	616	24" Aluminum Cylinder Skimmer with Pneumatic Tank
2	Skim Pack	300	

Temporary Storage Capacity, Mobile, Alabama (Minimum in Inventory)

Qty.	Type	Capacity	Description
1	Poly Storage Tank	3,000 Gal.	Designed for Chemical Storage
1	Poly Storage Tank	300 Gal.	Designed for Chemical Storage
1	Skid-Mounted Tank	1,000 Gal.	Steel
2	Skid-Mounted Tank	500 Gal.	Steel
125	Open Top Drum	55 Gal.	Steel and Poly
20	Overpack Drum	95 Gal.	Steel
10	Overpack Drum	85 Ga.	Polyethylene

Vessels and Motors, Mobile, Alabama

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Fast Response Vessel	26	300	50	250	5,500	6
1	Fast Response Vessel	20	115	57	100	1,800	4
1	Response Vessel	18	50	35	30	1,000	3
1	Work Boat	16	25	30	50	1,300	2

Transportation Equipment, Mobile, Alabama

Qty.	Description	Qty.	Description
11	Pick-up Truck	1	Stake Body Truck with Hydraulic Crane
2	4-WD ATV	1	26' Hazardous Materials/Chemical Transfer Trailer
1	12' ATV Trailer	1	21' Emergency Response/Oil Spill Trailer
1	20' Equipment Trailer	1	16' Confined Space/High Angle Rescue Trailer
1	18' Equipment Trailer	1	14' Enclosed Drum Transport Trailer
1	18' Equipment Trailer with sides	1	10,000 psi Hydro Blaster
1	20' Boom Trailers		

Supplies, Consumable, Mobile, Alabama (Minimum in Inventory)

Qty.	Description	Qty.	Description
100	Bales, Absorbent Pads	30	Boxes, Absorbent Oil Snare
60	Bales, Absorbent Boom, 5"	20	Bales, Absorbent Chemical Boom, 6"
100	Bags, Oil Gator	20	Bags, Absorbent Vermiculite
30	Bags, Citric Acid	25	Bales, Chemical Pads
20	Micro-Blaze	50	Bags, Cell-U-Sorb
20	Bales, Oil Sweep	20	Bags, Sodium Bicarbonate

Personal Protective Equipment, Mobile, Alabama

Qty.	Description	Qty.	Description
8	Fully-Encapsulating Level A Suits	144	Pair, Nitrile Gloves
30	Level B Suits, Kappler CPF 3	120	Pair, Neoprene Gloves
60	Level B Suits, Kappler CPF 2	500	Pair, Nitrile Inner Gloves
6	Firefighter Bunker Gear	100	Pair, Latex Boot Covers
500	NexGen (Kappler) Suits	30	Pair, SilverShield Gloves
2	USCG Type V Exposure Suits	4	USCG Type III Float Coats

Respiratory Protective Equipment, Mobile, Alabama

Qty.	Description
4	High Pressure (6,000 psi) Grade-D Breathing Air Cylinders
10	MSA Self-Contained Breathing Apparatus
6	MSA SCBA Spare Bottles (60-minute)
2	Hip-Mounted Breathing Air Units
4	MSA Breathing Air
300	Feet, MSA Hard Line for Breathing Air
20	Air-Purifying Respirators

Safety Equipment, Mobile, Alabama

Qty.	Description	Qty.	Description
1	Combustible Gas Detector/4-Gas Meter	1	Colorimetric Tube Draeger Pump
1	Combustible Gas Detector/5-Gas PID	1	Colorimetric Tube MSA Pump & assortment of detector tubes
1	Radiation Survey Meter	1	Ammonia Detector
1	Haz-Cat Kit	10	H2S Detector

RESPONSE EQUIPMENT (Mobile, Alabama and Service Locations)

Pumps and Miscellaneous Equipment, Mobile, Alabama

Qty.	Description	Qty.	Description
1	3" Stainless Steel Air Diapragm Pump	1	SS Betts Emergency Unloading Valve
1	2" Polypropylene Air Diaphragm Pump	1	1" Simmer Petroleum Pump
3	2" Stainless Steel Air Diaphragm Pump	2	3" Wash Pump
2	1" Stainless Chem Air Diaphragm Pump	6	2" Wash Pump
2	1" Polypropylene Air Diaphragm Pump	1	Nonsparking Tool Kit
100	Feet, 2" Petroleum Transfer Hose, Brass Fittings	1	2D Butterworth
100	Feet, 2" Acid/Chemical Hose, Stainless Fittings	1	2" Sightglass, Backflow Valves
10	Decontamination Pool	1	Chlorine "A" Kit
2	High-Pressure Steam Cleaner	1	Nitrogen Purge System for Chemical Transfers
1	225 Amps, 6,000 Watts Miller Welding Machine	1	185 CFM Air Compressor
1	Recovery Winch and Harness	1	Chlorine "B" Kit
2	Wheel Barrow Portable Air Compressor	1	Chlorine "C" Kit
1	Set, "Lid Loc" Dome Clamps	100	Feet, 2" Acid/Chemical Hose, Polypropylene Fittings
	Explosion Proof Lighting	1	5,000-Watt Generator
Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, bushings, reducers and couplings.			

Communications, Mobile, Alabama

Qty.	Type	Frequency	Range, Mi.	Description
12	Motorola Hand Held		> 100	MPKA Hand Held
15	Cellular Telephone		Nationwide	Hand Held
2	Satellite Phone/Radio		Unlimited	Portable
8	GPS Units			Hand Held
6	Digital Cameras			

Industrial Equipment, Mobile, Alabama

Qty.	Description	Qty.	Description
1	10,000 psi Hydro Blaster	1	4,000 psi Hot/Cold Water Pressure Washer
2	Bulldog Pumps	2	3,500 Cold Water Pressure Washer
1	2D Butterworth Nozzle with attachments	1	Venturi Blower and Copus Blower

Containment Boom, Biloxi, Mississippi

Qty. (ft.)	Model	Size	Description
1,100	ACME, River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric

Temporary Storage Capacity, Biloxi, Mississippi (Minimum in Inventory)

Qty.	Type	Capacity	Weight (lbs.)	Description
1	Poly Storage Tank	300 Gal.		Designed for chemical storage
5	Close Top Drums	55 Gal.		Steel
2	Overpack Drum	95 Gal.	50	Steel
1	Overpack Drum	95 Gal.	50	Poly
1	Overpack Drum	30 Gal.		Poly

Vessels and Motors, Biloxi, Mississippi

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Work Boat	16	25	25	30	1,000	2

RESPONSE EQUIPMENT (Jackson, Mississippi and Service Locations)

Transportation Equipment, Biloxi, Mississippi

Qty.	Description	Qty.	Description
2	Pick-up Truck	1	16' Emergency Response Trailer

Supplies, Consumable, Biloxi, Mississippi (Minimum in Inventory)

Qty.	Description	Qty.	Description
36	Bales, Absorbent Pads	30	Boxes, Absorbent Oil Snare
24	Bales, Absorbent Boom, 5"	20	Bales, Absorbent Chemical Boom, 6"
20	Bales, Oil Sweep	50	Bags, Absorbent Particulate

Personal Protective Equipment, Biloxi, Mississippi

Qty.	Description	Qty.	Description
20	Level B Suits, Kappler CPF 2	20	Pair, Neoprene Gloves
30	NexGen (Kappler) Suits	20	Pair, Rubber Boot Covers

Safety Equipment, Biloxi, Mississippi

Qty.	Description	Qty.	Description
1	Combustible Gas Detector/4-Gas Meter	1	HazCat Kit
1	Photoionization Detector (PID)		

Communications, Biloxi, Mississippi

Qty.	Type	Frequency	Range, Mi.	Description
2	Cellular Telephone		Nationwide	Hand Held
3	GPS Units			Hand Held
2	Digital Cameras			

Pumps and Miscellaneous Equipment, Biloxi, Mississippi

Qty.	Description
1	1" Aluminum Air Diaphragm Pump
1	1" Polypropylene Air Diaphragm Pump
1	2" Wash Pump
1	5,000-Watt Generator

RESPONSE EQUIPMENT (Birmingham, Alabama and Service Locations)

Containment Boom, Birmingham, Alabama

Qty. (ft.)	Model	Size	Description
2,500	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric

Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Birmingham, Alabama

Qty.	Type	EDRC* (Barrels)	Description
1	Stainless Vacuum Truck	500	80-Barrel Capacity

Temporary Storage Capacity, Birmingham, Alabama (Minimum in Inventory)

Qty.	Type	Capacity	Description
5	Overpack Drums	95 Gal.	Polyethylene
10	Open Top Drums	55 Gal.	Polyethylene
20	Open Top Drums	55 Gal.	Steel

Vessels and Motors, Birmingham, Alabama

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
2	Jon Boat	16	20	20	20	750	4

Transportation Equipment, Birmingham, Alabama

Qty.	Description	Qty.	Description
3	Pick-up Trucks	1	20' Equipment Trailer with sides
1	16' HazMat/Oil Spill Response Trailer	1	36' Hazmat/Oil Spill Response Trailer
1	20' Equipment Trailer		

Supplies, Consumable, Birmingham, Alabama (Minimum in Inventory)

Qty.	Description	Qty.	Description
10	Bales, Sorbent Pads	10	Bags, Vermiculite
10	Bales, Chemical Pads	20	Bags, Oil Dry
10	Bales, 5" Sorbent Boom	30	Bags, Cell-U-Sorb
20	Bags, Citric Acid	30	Bags, Sodium Bicarbonate
30	Bags, Lime	20	Bags, Soda Ash
60	Bags, Oil-Gator		

Personal Protective Equipment, Birmingham, Alabama

Qty.	Description	Qty.	Description
4	Fully-Encapsulating Level A Suits	144	Pair, Nitrile Gloves
30	Level B Suits, Kappler CPF 3	120	Pair, Neoprene Gloves
60	Level B Suits, Kappler CPF 2	500	Pair, Nitrile Inner Gloves
60	NexGen (Kappler) Suits	100	Pair, Latex Boot Covers
30	Pair, SilverShield Gloves	2	Size 15 Level A Outer Boots

Respiratory Protective Equipment, Birmingham, Alabama

Qty.	Description
4	MSA Self-Contained Breathing Apparatus
4	MSA SCBA Spare Bottles (60-minute)
2	Hip-Mounted Breathing Air Units
4	MSA Breathing Air
600	Feet, MSA Hard Line for Breathing Air
5	Boxes of Mersorb Cartridges
6	Air-Purifying Respirators

Safety Equipment, Birmingham, Alabama

Qty.	Description	Qty.	Description
1	Combustible Gas Detector/4-Gas Meter	1	Colorimetric Tube Draeger Pump
1	Combustible Gas Detector/5-Gas PID	1	Colorimetric Tube MSA Pump & assortment of detector tubes

RESPONSE EQUIPMENT (Birmingham, Alabama and Service Locations)

Pumps and Miscellaneous Equipment, Birmingham, Alabama

Qty.	Description	Qty.	Description
200	Ft, 2" UHMWP Chemical Transfer Hose	1	2" Stainless Steel Air Diaphragm Pump, Viton & Teflon Elastomers
20	Ft, 1" Chemflex Chemical Transfer Hose	2	2" Polypropylene Air Diaphragm Pump, Viton Elastomers
60	Feet, 4" Petroleum Hose	1	1" Aluminum Air Diaphragm Pump, Viton Elastomers
200	Feet, 2" Petroleum Hose	1	2" Polypropylene Air Diaphragm Pump, Teflon Elastomers
1	3" Trash Pumps	2	Rebuild Kits for 2"
2	2" Trash Pump	100	Feet, Chemical Hose with Poly Fittings 20' Sections
1	Regulator for Diaphragm Pump	1	Flare and Kit
1	Nitrogen Regulator	1	Compressed Air Regulator
1	1" Air Dryer with Cowfoot Fittings	1	Haz-Hammock
1	Chlorine C Kit	1	Pressure Relief Device - O Ring Kit
1	A-E Patch Kit	2	50' Firehose With Cam Lock Fittings
Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, bushings, reducers and couplings.			

Communications, Birmingham, Alabama

Qty.	Type	Frequency	Range, Mi.	Description
6	Cellular Telephone		Nationwide	Hand Held

RESPONSE EQUIPMENT (Beaumont, Texas and Service Locations)

Containment Boom, Houston, Texas

Qty. (ft.)	Model	Size	Description
2,000	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric
4,000	Creek	10"	

Temporary Storage Capacity, Beaumont, Texas (Minimum in Inventory)

Qty.	Type	Capacity	Description
5	Overpack Drums	95 Gal.	Polyethylene
5	Overpack Drums	85 Gal.	Steel
20	Open Top Drums	55 Gal.	Polyethylene
20	Open Top Drums	55 Gal.	Steel
10	Closed Top Drums	55 Gal.	Polyethylene
10	Closed Top Drums	55 Gal.	Steel

Vessels and Motors, Beaumont, Texas

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Work Boat	15	25	30	15	1,000	2

Transportation Equipment, Beaumont, Texas

Qty.	Description	Qty.	Description
4	Pick-up Trucks	1	14' Enclosed Response Trailer
1	24' Enclosed Response Trailer		
1	20' Boom Trailer		
1	24' Marine Response Trailer		

Supplies, Consumable, Beaumont, Texas (Minimum in Inventory)

Qty.	Description	Qty.	Description
50	Bales, Sorbent Pads	25	Bales, Chemical Pads
35	Bags, 8" Sorbent Boom, 40'	20	Sorbent Roll
50	Bags, 5" Sorbent Boom, 40'		

Personal Protective Equipment, Beaumont, Texas

Qty.	Description	Qty.	Description
2	Level A Suits	40	Poly Coated Tyvek Suits
40	NexGen Suits	40	Level B Suite, CPF3
40	Level B Suits, CPF2	50	Latex Booties
500	Pair, Inner Gloves	80	Pair, PVC Gloves
120	Pair, Nitrile Gloves	20	Pair, Silver Shield Gloves
20	Pair, Silver Shield Booties		

Respiratory Protective Equipment, Beaumont, Texas

Qty.	Description
2	MSA Self Contained Breathing Apparatus with 60 Minute Bottles
2	MSA 60 Minute Spare Bottles
8	MSA Ultra Twin Respirators, Full Face

Safety Equipment, Beaumont, Texas

Qty.	Description
2	Combustible Gas Detector/4-Gas Meter

RESPONSE EQUIPMENT (Beaumont, Texas and Service Locations)

Pumps and Miscellaneous Equipment, Beaumont, Texas

Qty.	Description	Qty.	Description
1	2" Stainless Steel Chemical Air Diaphragm Pump	1	Drum Dolly
1	2" Poly Chem Air Diaphragm Pump	100	Feet, 2" Acid/Chemical Hose with Poly Fittings
1	1" Stainless Steel Chemical Air Diaphragm Pump	100	Feet, 1" Acid/Chemical Hose with Poly Fittings
1	1" Poly Chem Air Diaphragm Pump	100	Feet, 2" Acid/Chemical Hose with Stainless Fittings
2	2" Gasoline Trash Pump	100	Feet, 1" Acid/Chemical Hose with Stainless Fittings
1	6000 kW Generator	1	Wheel Barrow Portable Air Compressor
1	3500 kW Generator		
Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, bushings, reducers and couplings.			

Communications, Beaumont, Texas

Qty.	Type	Frequency	Range, Mi.	Description
3	Cellular Telephones		Nationwide	Hand Held

RESPONSE EQUIPMENT (Houston, Texas and Service Locations)

Containment Boom, Houston, Texas

Qty. (ft.)	Model	Size	Description
1,400	River	20"	Quick Connect, 100 ft. sections, 22 oz. Fabric
1,500	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric
100	Creek	6"	
1,000	River	10"	Quick Connect, 100 ft. sections, 22 oz. Fabric

*Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Houston, Texas*

Qty.	Type	EDRC* (Barrels)	Description
1	Vacuum Truck	500	70-Barrel Capacity
1	Goo Gobbler	616	24" Aluminum Cylinder Skimmer with Hydraulic Pack
1	Guzzler Air Mover	70	

Temporary Storage Capacity, Houston, Texas (Minimum in Inventory)

Qty.	Type	Capacity	Description
14	Overpack Drums	95 Gal.	Polyethylene
14	Overpack Drums	85 Gal.	Steel
20	Open Top Drums	55 Gal.	Polyethylene
20	Open Top Drums	55 Gal.	Steel

Vessels and Motors, Houston, Texas

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
1	Fast Response Boat	26	2 - 150	55	60	5,000	6
3	Work Boat	16	25	25	15	1,000	2

Transportation Equipment, Houston, Texas

Qty.	Description	Qty.	Description
9	Pick-up Trucks	3	20' Flatbed Gooseneck Trailer
1	70 BBL Vac Truck (Freightliner)	1	20' Equipment / Utility Trailer
1	32' Chemical Transfer Trailer	1	20' Boom Trailer
1	24' HazMat Response Trailer	1	24' Demolition Trailer with Office
1	16' Oil Spill Trailer	1	28' Flatbed Goosneck Trailer
1	Semi Tractor	1	Rolloff Trailer

Supplies, Consumable, Houston, Texas (Minimum in Inventory)

Qty.	Description	Qty.	Description
100	Bales, Sorbent Pads	100	Bales, Chemical Pads
100	Bags, 8" Sorbent Boom, 40'	150	Bags, Oil Snare

Personal Protective Equipment, Houston, Texas

Qty.	Description	Qty.	Description
8	Level A Suits	40	Poly Coated Tyvek Suits
40	NexGen Suits	40	Level B Suite, CPF3
40	Level B Suits, CPF2	50	Latex Booties
500	Pair, Inner Gloves	80	Pair, PVC Gloves
120	Pair, Nitrile Gloves	20	Pair, Silver Shield Gloves
20	Pair, Silver Shield Booties		

Respiratory Protective Equipment, Houston, Texas

Qty.	Description
8	MSA Self Contained Breathing Apparatus with 60 Minute Bottles
8	MSA 60 Minute Spare Bottles
22	MSA Ultra Twin Respirators, Full Face

RESPONSE EQUIPMENT (Houston, Texas and Service Locations)

Safety Equipment, Houston, Texas

Qty.	Description	Qty.	Description
4	Combustible Gas Detector/4-Gas Meter	3	Photoionization Detector
1	Radiation Survey Meter		

Pumps and Miscellaneous Equipment, Houston, Texas

Qty.	Description	Qty.	Description
1	3" Poly Chem Air Diaphragm Pump	100	Feet, 2" Acid/Chemical Hose with Poly Fittings
2	2" Stainless Steel Chemical Air Diaphragm Pump	100	Feet, 1" Acid/Chemical Hose with Poly Fittings
2	2" Poly Chem Air Diaphragm Pump	400	Feet, 3" Acid/Chemical Hose with Stainless Fittings
1	1" Stainless Steel Chemical Air Diaphragm Pump	100	Feet, 2" Acid/Chemical Hose with Stainless Fittings
1	1" Poly Chem Air Diaphragm Pump	300	Feet, 1" Acid/Chemical Hose with Stainless Fittings
1	Blackmer 2" Stainless Steel Vein Pump	100	Feet, 2" Discharge Hose with Strainers
5	2" Gasoline Trash Pump	500	Feet, 1 1/2" Rag Hose with Strainers
1	2" Diesel Trash Pump	1	North Star 13,500 kW Generator
400	Feet, 2" Petroleum Hose with Strainers	1	Wheel Barrow Portable Air Compressor
100	Feet, 1" Petroleum Hose with Strainers	2	Drum Dolly
2	Dewalt 6500 kW Generator	1	Drum Lifting Device, Drum Sling
Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, bushings, reducers and couplings.			

Communications, Houston, Texas

Qty.	Type	Frequency	Range, Mi.	Description
6	Motorola Hand-Held	851-866 MHz	5	Intrinsically Safe
20	Cellular Telephones		Nationwide	Hand Held

Heavy Equipment, Houston, Texas

Qty.	Description
1	Trackhoe - Volvo 210

Thermal Oxidizer, Houston, Texas

Qty.	Description
1	1000 SCFM Self-Contained, Portable Thermal Oxidizer with 300 feet of 4" Stainless Hose

RESPONSE EQUIPMENT (Laredo, Texas and Service Locations)

Temporary Storage Capacity, Laredo, Texas (Minimum in Inventory)

Qty.	Type	Capacity	Description
10	Overpack Drums	95 Gal.	Polyethylene
10	Overpack Drums	85 Gal.	Steel
12	Open Top Drums	55 Gal.	Polyethylene
10	Open Top Drums	55 Gal.	Steel

Transportation Equipment, Laredo, Texas

Qty.	Description	Qty.	Description
3	Pick-up Trucks	1	28' HazMat Response Trailer/Chemical Transfer Unit
1	24' Equipment Trailer	1	18' Equipment Trailer

Supplies, Consumable, Laredo, Texas (Minimum in Inventory)

Qty.	Description	Qty.	Description
24	Bales, Sorbent Pads	12	Bags, Vermiculite
12	Bags, 8" Sorbent Boom, 40'	24	Bales, Fiberperl / Cell-u-Sorb
12	Bags, Citric Acid	6	Bags, Hydrated Lime
24	Bags, Oil-Gator	24	Bags, FloorDri
24	Bales, Chemical Pads	12	Micro-Blaze

Personal Protective Equipment, Laredo, Texas

Qty.	Description	Qty.	Description
4	Level A Suits, DuPont Tychem	240	Pair, Nitrile Gloves
60	Level B Suits, CPF 3	240	Pair, Neoprene Gloves
60	Level B Suits, CPF 2	50	Pair, Rubber Boot Covers
240	NexGen Suits	1,000	Pair, Nitrile Inner Gloves

Respiratory Protective Equipment, Laredo, Texas

Qty.	Description
4	Scott Self-Contained Breathing Apparatus
12	Air-Purifying Respirators

Safety Equipment, Laredo, Texas

Qty.	Description	Qty.	Description
5	Combustible Gas Detector/4-Gas Meter with PID	120	Chemical-Specific Colorimetric Detector Tubes
1	Colorimetric Tube Drager Pump		

Pumps and Miscellaneous Equipment, Laredo, Texas

Qty.	Description	Qty.	Description
160	Feet, 2" U.H.M.W.P. Chemical Transfer Hose	1	Stainless Steel Air Diaphragm Pump, Viton Elastomers
160	Feet, 1" U.H.M.W.P. Chemical Transfer Hose	1	2" Polypropylene Air Diaphragm Pump, Viton Elastomers
100	Feet, 2" Petroleum Hose	1	1" Polypropylene Air Diaphragm Pump, Viton Elastomers
100	Feet, 2" Suction Hose	1	3" Aluminum Air Diaphragm Pump
300	Feet, 2" Discharge Hose	1	2" Aluminum Air Diaphragm Pump
1	2" Trash Pump		
Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, bushings, reducers and couplings.			

Communications and Electronics, Laredo, Texas

Qty.	Type	Frequency	Range, Mi.	Description
2	Cellular Telephone		Nationwide	Hand Held
1	GPS Units			Hand Held
2	Digital Cameras			

Industrial Equipment, Laredo, Texas

Qty.	Description	Qty.	Description
1	3,200 psi Pressure Washer		

DEMOLITION EQUIPMENT (All Service Locations)

Heavy Equipment, Houston, Texas

Qty.	Description
1	Trackhoe - Komatsu PC300LS
1	LaBounty MSD-70 Shear attachment for PC300
1	Trackhoe - Linkbelt 330
1	Genesis 600 MagnumR- Shear attachment for Linkbelt 330
2	4-Wheel Drive Cat Rubber-Tire Backhoe with Extend-a-hoe Attachment
1	Catepillar 320 Trackhoe
1	Catepillar D5M Bull Dozer
1	Catepillar Skid Steer (bob cat)
1	Linkbelt 130 Excavator
1	Grapple attachment for PC 300
1	18 Yard tandem dump truck
1	2,000 gallon water truck
1	Tractor trailer with lo-boy
1	4-Wheel Drive Rubber-Tire Backhoe
1	15 Yard tandem dump truck
1	24' Pindle hitch lowboy trailer