

**COMPANY CORE PLAN TABLE OF CONTENTS****FRONT OF BOOK****SECTION 1 INFORMATION SUMMARY****SECTION 2 IMMEDIATE NOTIFICATIONS****SECTION 3 SPILL DETECTION/MITIGATION****SECTION 4 OIL SPILL REMOVAL ORGANIZATIONS****SECTION 5 RESPONSE ACTIVITIES****SECTION 6 INCIDENT COMMAND SYSTEM****SECTION 7 JOB SITE SAFETY PLAN****SECTION 8 CLEANUP PROCEDURES****SECTION 9 ESTIMATING SPILL VOLUMES****SECTION 10 WASTE MANAGEMENT****SECTION 11 COMMUNICATIONS****SECTION 12 TRAINING AND DRILLS****SECTION 13 PLAN REVIEW AND UPDATE PROCEDURES****SECTION 14 PUBLIC RELATIONS****SECTION 15 DOCUMENTATION / ICS FORMS****SECTION 16 MSDS****SECTION 17 GLOSSARY****SECTION 18 RELEASE EXERCISES-HES706****SECTION 19 CHEVRON FUNCTIONAL & WORLDWIDE TEAM RESOURCES****SECTION 20 GAS PIPELINES & FACILITIES NORTH AMERICA EOP****TEXAS STATE APPENDIX TABLE OF CONTENTS****BEAUMONT TERMINAL ERAP****FRONT POCKET INFORMATION****FRONT OF BOOK****SECTION 1A INFORMATION SUMMARY****SECTION 1B BEAUMONT TERMINAL FRP****SECTION 1C VAN PIPELINE SYSTEM****SECTION 2 NOTIFICATIONS****SECTION 3 RESOURCES****SECTION 4 WASTE MANAGEMENT****SECTION 5 DISPERSANTS****SECTION 6 SAMPLING****SECTION 7 SPILL IMPACT****SECTION 8B SENSITIVE INFO-MAPS H - N****SECTION 8C SENSITIVE INFO-MAPS N - W****SECTION 8E SENSITIVE INFO-MAPS SABINE & GALVESTON****SECTION 8F HOUSTON AREA SENSITIVE INFO****SECTION 8G ORANGE, BRAZORIA & ADDITIONAL AREA SENSITIVE INFO-MAPS****SECTION 9A HURRICANE PLAN****SECTION 9B HURRICANE PLAN - BEAUMONT****SECTION 9C HURRICANE PLAN - MONT BELVIEU****SECTION 9D HURRICANE PLAN - SOUR LAKE****SECTION 10 SWEENY COMPLEX PIPELINE EMERGENCIES****AGENCY CROSS REFERENCE**

COMPANY PLAN DEFINITION



COMPANY EMERGENCY RESPONSE PLAN CORE PLAN

DOT/PHMSA Sequence Number 210

**THIS CORE PLAN COMBINED WITH THE APPLICABLE STATE APPENDIX
ESTABLISHES EMERGENCY RESPONSE PLANNING CRITERIA FOR:**

**CHEVRON PIPE LINE COMPANY
CHEVRON MIDSTREAM PIPELINES, LLC (FORMERLY TEXACO PIPELINES LLC)
BRIDGELINE HOLDINGS, L.P. (BHLP)
NECHES GAS DISTRIBUTION COMPANY (NGDC)
SABINE PIPE LINE (SPLLLC)
TEXACO EXPLORATION AND PRODUCING INC. (TEPI)
CHEVRON PETROCHEMICAL PIPELINE, LLC
CHEVRON CORPORATION
(HEREIN REFERRED TO AS "COMPANY")**

Prepared by:
Chevron Pipe Line Company
4800 Fournace Place
Bellaire, TX 77401
(800) 762-3404 or (877) 596-2800

COMPANY CORE PLAN

FRONT OF BOOK

CERTIFICATIONS

CERTIFICATIONS

Qualified Individual

Chevron Pipe Line Company (Company) is authorizing all of its employees who are trained in Incident Command and who are functioning as the Incident Commander (IC) to be the Qualified Individual (QI). This financial authority is unique to spills and emergency releases and is not a part of the Company's routine delegation of authority guidelines.

In the event of an oil spill or emergency release, Company employees who will be responding as Incident Commanders (IC/QIs) have the authority to:

1. Activate the Emergency Response Plan.
2. Activate and engage in contracting with oil spill removal organizations. Commit resources from within the Company, through the Corporate Oil Spill Coordinator/Staff, outside contractors, MSRC, cooperatives, and as directed by the Federal or State On-Scene Coordinator.
3. Act as liaison with Federal or State On-Scene Coordinator and other Federal and State officials.
4. Obligate funds required to carry out all necessary or directed response activities.

The response organization is critical to the management of an emergency response because of the large geographic areas covered by the Company. Immediate response in remote areas is managed by local personnel who may be replaced by additional personnel if the magnitude of the spill warrants. The response of the additional personnel may take some time due to geography. It is impossible to name the specific individual who will be IC in advance. It will depend on the location of the spill, the size of the spill, and whether it is the initial response or a later phase in the clean up process.

Various federal and state agencies have recognized the need for owners/operators who use a tiered response to allow for the transfer of authority upward as the extent of a spill is assessed. Agencies also acknowledge that response efforts often involve 24- hour efforts, and authorities must be transferred in this "shift" works situation.

National Contingency Plan / Area Contingency Plan Consistency

Company (Operator) certifies that it has reviewed the National Contingency Plan (NCP) and each applicable Area Contingency Plan, and that this Emergency Response Plan is consistent with the existing NCP and each existing applicable ACP.

Per applicable geographical areas, the following Area Contingency Plans have been reviewed for consistency with Company's Emergency Response Plan:

- US EPA Region 6 Integrated ACP (Facilities in Texas and New Mexico)
- South Louisiana/Acadia Region ACP (Morgan City)
- New Orleans/Baton Rouge ACP
- US EPA Region 8 ACP (Facilities in Utah and Colorado)
- US EPA Region 9 Regional Contingency Plan (Facilities in California)
- US EPA Region 10 ACP (Facilities in Idaho, Oregon and Washington)
- San Francisco Oil Spill Contingency Plan (N. California Bay Area Facility)
- Los Angeles/Long Beach ACP (S. California Los Angeles Facility)

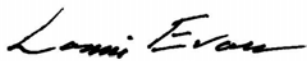
CERTIFICATION OF RESOURCES

The Company hereby certifies to the Pipeline Hazardous Materials Safety Administration (PHMSA) of the Department of Transportation that we have identified and ensured by contract or other means to be approved by the PHMSA, the availability of private personnel and equipment to respond, to the maximum extent practicable, up to and including a worst case discharge or a substantial threat of such a discharge.

STATEMENT OF SIGNIFICANT AND SUBSTANTIAL HARM

The Company hereby submits to the Pipeline Hazardous Materials Safety Administration of the Department of Transportation that we have identified, as required by 49 CFR, Part 194.107 and Part 194.103, the pipeline sections in each Response Zone that can be expected to cause significant and substantial harm to the environment in the event of a discharge of oil or products into or on navigable waters, adjoining shorelines, public drinking water intakes, or other environmentally sensitive areas. Each pipeline segment meeting the significant harm definition is identified, as required, in the applicable State Appendices.

Signature:



Date:

15 Mar 2010

Printed Name and Title:

Lonnie Evans, CEM, Emergency Response Specialist
4800 Fournace Place, Rm. E320B, Bellaire, TX 77401-2324
Tel 713-432-3406, LonnieJEvans@chevron.com

COMPANY CORE PLAN

FRONT OF BOOK

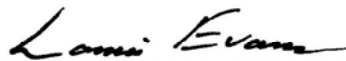
CERTIFICATION OF SIGNIFICANT AND SUBSTANTIAL HARM

CERTIFICATION OF SIGNIFICANT AND SUBSTANTIAL HARM

STATEMENT OF SIGNIFICANT AND SUBSTANTIAL HARM

The Company hereby submits to the Pipeline Hazardous Materials Safety Administration of the Department of Transportation that we have identified, as required by 49 CFR, Part 194.107 and Part 194.103, the pipeline sections in each Response Zone that can be expected to cause significant and substantial harm to the environment in the event of a discharge of oil or products into or on navigable waters, adjoining shorelines, public drinking water intakes, or other environmentally sensitive areas. Each pipeline segment meeting the significant harm definition is identified, as required, in the applicable State Appendices.

Signature:



Date:

15 Mar 2010

Printed Name

Lonnie Evans, CEM

Title:

Emergency Response Specialist

Address

4800 Fournace Place, Rm. E320B

Bellaire, TX 77401-2324

Phone

Tel 713-432-3406

Email

LonnieJEvans@chevron.com

REGULATORY COMPLIANCE

This Company Core Plan combined with the applicable State Appendix in addition to implementing Company policy, addresses the following State and Federal requirements:

- State of Washington Chapter 173-182 WAC, Oil Spill Contingency Planning.
- Oil Pollution Act of 1990: 49 CFR 194 Response Plans for Onshore Oil Pipelines (Department of Transportation).
- Oil Pollution Act of 1990: Bureau of Safety and Environmental Enforcement - Spill Response Plans for Offshore Facilities including State Submerged Lands and Pipelines.
- Oil Pollution Act of 1990: 33 CFR Parts 150 and 154 Response Plans for Marine Transportation Related Facilities (USCG).
- Oil Pollution Act of 1990: 40 CFR Parts 9 and 112 Oil Pollution Prevention; Non-Transportation Related Onshore Facilities (USEPA).
- Bureau of Safety and Environmental Enforcement – Notice to Leases (NTL) 92-04.
- A cross-reference between the format of this Plan and applicable regulations is provided in the State Appendix Plan.

DOT APPROVAL LETTER



U.S. Department
of Transportation

**Pipeline and
Hazardous Materials Safety
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

May 10, 2005

Certified Mail –7003 3110 0003 2602 9832-Return Receipt Requested

Mr. Tracy Long
ChevronTexaco Pipeline Company
2811 Hayes Road
Houston, TX 77082

**Re: OPS Plan Sequence Numbers 210 Core Plan
189 Louisiana Response Zone
206 California Response Zone
211 Northwest Response Zone
217 Texas Response Zone**

Dear Mr. Long,

Your Facility Response Plan (FRP) is approved in accordance with 49 CFR Part 194, *Response Plans for Onshore Transportation-Related Oil Pipelines*. The Pipeline and Hazardous Materials Safety Administration (PHMSA) commends you for developing a plan that reflects the characteristics of your company, the facility it operates, and the environment it strives to protect. In approving your plan, we have determined that your January and March 2005 revisions have adequately addressed the findings in our letter dated 25 January 2005. On the basis of the information we reviewed, your response plan now satisfies the minimum response planning standards established by 49 CFR Part 194.

We accept as true all information in the plan but reserve the right to verify its validity and accuracy. We will advise you of any deficiencies discovered during our ongoing quality control activities and you will have the opportunity to correct such deficiencies.

Response planning is an ongoing process. The preparation, submission, review, and approval of a response plan are only the first steps in the process of developing an effective national response planning program. We will continue to help you refine and improve your plan. We trust that you will continue to improve your plan as you gain new knowledge and discover better practices, whether through responses to actual spills or through evaluations of drills and exercises.

Note that this approval will expire on May 10, 2010, which is five years from the date of this letter. Although we have approved the plan, we expect you to maintain your plan's compliance with 49 CFR 194, including making and submitting any required revisions to the plan as specified in 49 CFR 194.121(a) and (b).

COMPANY CORE PLAN

FRONT OF BOOK

Please refer to the "OPS Plan Sequence Numbers" listed above in all plan-related correspondence, including e-mails. E-mail is the preferred method for submitting inquiries, questions and comments to me at le.herrick@dot.gov. You can also telephone me at (202) 366-5523 or fax me at (202) 366-4566. Thank you for your cooperation.

Sincerely,



L. E. Herrick
Response Plans Officer

Enclosure

cc: EPA IV, EPA VI, EPA VIII, EPA IX, EPA X, MSO Morgan City, MSO New Orleans, MSO Port Arthur, MSO Galveston/Houston and MSO LA/LB.

Ext. # 9391

File # 2355, 2406

Act. # 9068

UPDATE NOTICE

UPDATE NOTICE
COMPANY EMERGENCY RESPONSE PLAN
CORE PLAN
VOLUME I

To All Holders of the Company ERPs:

Revision Number: New Publication of Core Plan, Volume I

Date: June 2002

[illegible]

Insert this Update Notice in the front of your ERP Volume 1 Core Plan Volume I with previous historical Update Notices.

Sign the enclosed acknowledgment letter and mail to PTS, Inc. in the enclosed self addressed envelope to acknowledge receipt of the new ERP Core Plan Volume I.

UPDATE NOTICE

Revision # 0001

To All Holders of the Core Plan

Revision Date: February 2003

This sheet contains instructions for switching out pages in your Core Company Emergency Response Plan (Core Plan). Please follow the attached flowchart. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator Tracy Long via e-mail when you have completed updating your ERP.

Remove Existing Pages	Replace With New Print Out Pages
Front of Book <ul style="list-style-type: none"> No pages are to be removed. 	Front of Book <ul style="list-style-type: none"> Insert new signed Certifications page at the end of Front of Book.
Master Table of Contents <ul style="list-style-type: none"> Remove existing Table of Contents page for Sections 14/15 and Sections 15/16 (back to back). 	Master Table of Contents <p>Print and replace with new Table of Contents for Sections 14/15 and Sections 15/16 (back to back). (This is the first set of Table of Contents in the date file).</p>
Section 2, Immediate Notifications <ul style="list-style-type: none"> Remove entire existing Section. 	Section 2, Immediate Notifications <p>Print new and replace existing with entire new Section.</p>
Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> Remove pages 15/16. 	Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> Print new and replace existing with new pages 15/16.
Section 15, Documentation <ul style="list-style-type: none"> Remove the Table of Contents and pages 45-49, located just behind the ICS forms. 	Section 15, Documentation <ul style="list-style-type: none"> Print new and replace existing with new Table of Contents and pages 45-50. (This is the second set of Table of Contents in the date file).
	Front of Book <p>Once your switchout process is complete, add this update notice to your Core Plan Front of Book.</p>

UPDATE/REVISION NOTICE**Revision # 0002****To All Holders of the Core Plan****Revision Date: July 2003****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file.
- This sheet contains instructions for switching out pages in your Core Plan Emergency Response Plan. Please follow the attached flowchart. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator Tracy Long via e-mail when you have completed updating your ERP.
- If you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail at ptsdoug@hazassist.com.

Remove Existing Pages	Replace With New Print Out Pages
Core Plan CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	Core Plan CD <ul style="list-style-type: none"> • Replace with new electronic version of the Core Plan provided
Binder Cover <ul style="list-style-type: none"> • Remove front cover 	Binder Cover <ul style="list-style-type: none"> • Insert new cover provided
Front of Book <ul style="list-style-type: none"> • Remove entire section 	Front of Book <ul style="list-style-type: none"> • Print entire section single sided
Table of Contents Remove table of contents pages as follows: <ul style="list-style-type: none"> • Page with Section 1 Table of Contents with back page Section 2 Table of Contents • Page with Section 3 Table of Contents with back page Section 4 Table of Contents • Page with Section 20 Table of Contents page that begins with 62 and ends with 82, back of page begins with 82 and ends with 92 	Table of Contents Replace table of contents pages as follows: <ul style="list-style-type: none"> • Print Table of Contents page Section 1 Information Summary and Section 2 Immediate Notifications print double sided (back to back) • Print Table of Contents Section 3 Spill Detection / Mitigation with back page Section 4 Oil Spill Removal Organizations print double sided (back to back) • Print Table of Contents Section 20 Gas Pipelines & Facilities N. American EOP page that begins with 62 and ends with 82, back of page begins with 82 and ends with 95
Section 1, Information Summary <ul style="list-style-type: none"> • Remove Table of Contents • Remove pages 1 through 4 	Section 1, Information Summary <ul style="list-style-type: none"> • Print Table of Contents single sided • Print pages 1 through 4 double sided (back to back)

UPDATE/REVISION NOTICE**Revision # 0002****To All Holders of the Core Plan****Revision Date: July 2003**

Remove Existing Pages	Replace With New Print Out Pages
Section 2, Immediate Notifications <ul style="list-style-type: none"> Remove pages 1 and 2 Remove page 5 Remove pages 6 and 7 	Section 2, Immediate Notifications <ul style="list-style-type: none"> Print pages 1 and 2 double sided (back to back) Print page 5 single sided Print pages 6 and 7 double sided (back to back)
Section 4, OSRO Information <ul style="list-style-type: none"> Remove Table of Contents page Remove pages 5 and 6 New to add 	Section 4, OSRO Information <ul style="list-style-type: none"> Print Table of Contents page single sided Print pages 5 and 6 double sided (back to back) Print pages 7 and 8 double sided (back to back)
Section 7, Job Site Safety Plan <ul style="list-style-type: none"> Remove entire section 	Section 7, Job Site Safety Plan <ul style="list-style-type: none"> Print title page single sided Print Table of Contents page single sided Print pages 1 through 10 double sided (back to back) Print page 11 single sided
Section 19, Functional & WW Team Response <ul style="list-style-type: none"> Remove pages 17 through 22 	Section 19, Functional & WW Team Response <ul style="list-style-type: none"> Print pages 17 through 22 double sided (back to back)
Section 20 Gas Pipelines & Facilities N. American EOP <ul style="list-style-type: none"> Remove Table of Contents page that begins with 62 and ends with 82, back of page begins with 82 and ends with 92 New to add 	Section 20 Gas Pipelines & Facilities N. American EOP <ul style="list-style-type: none"> Print Table of Contents page that begins with 62 and ends with 82, back of page begins with 82 and ends with 95 Print pages 93 and 94 double sided (back to back) Print page 95 single sided
Front of Book Once your switch-out process is complete, print this update notice double sided and insert it in your Core Plan Front of Book behind previous Update/Revision Notices	
Notify the Emergency Response Coordinator Tracy Long via e-mail when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0003****To All Holders of the Core Plan****Revision Date: February 2004****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file.
- This sheet contains instructions for updating your Core Emergency Response Plan. Please follow the attached flowchart. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: ptsdoug@hazassist.com.

Remove Existing Pages	Replace With New Print Out Pages
Core Plan CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Core Plan provided
Table of Contents <ul style="list-style-type: none"> • Section 3/4 Table of Contents (double sided) • Section 12/13 Table of Contents (double sided) 	Table of Contents <ul style="list-style-type: none"> • Print Section 3/4 Table of Contents (double sided) • Print Section 12/13 Table of Contents (double sided)
Section 1, Information Summary <ul style="list-style-type: none"> • Remove page 1/2 (double sided) • Remove page 3/4 (double sided) 	Section 1, Information Summary <ul style="list-style-type: none"> • Print page 1/2 double sided • Print page 3/4 single sided
Section 2, Notifications <ul style="list-style-type: none"> • Remove page 1/2 (double sided) 	Section 2, Notifications <ul style="list-style-type: none"> • Print page 1/2 double sided
Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> • Remove page 1/2 (double sided) • Remove page 3/4 (double sided) • Remove all 11 X 17 color Emergency Response Guide First Responder foldout pages (pages 18 through 33) 	Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> • Print page 1/2 double sided • Print page 3/4 double sided • Replace with new, enclosed 11 X 17 color Emergency Response Guide First Responder foldout pages (pages 18 through 33)
Section 4, Oil Spill Removal Organizations <ul style="list-style-type: none"> • Remove Table of Contents (single sided) • Remove page 3/4 (double sided) • Remove page 5/6 (double sided) 	Section 4, Oil Spill Removal Organizations <ul style="list-style-type: none"> • Print Table of Contents single sided • Print page 3/4 double sided • Print page 5/6 double sided

Revision # 0003**To All Holders of the Core Plan****Revision Date: February 2004****Section 13, Plan Review & Updates**

- Remove Table of Contents (single sided)
- Remove page 1 (single sided)

Section 13, Plan Review & Updates

- Print Table of Contents single sided
- Print page 1 single sided

Section 18, ER Spill Exercises (HES 706)

- Remove entire section

Section 18, ER Spill Exercises (HES 706)

- Print title page single sided
- Print first two pages of table of contents double sided
- Print third page of table of contents single sided
- Print page 1 through 16 double sided
- Print page 17 through 23 single sided
- Print page 24 through 33 double sided
- Print page 34 through 41 (end) single sided

Section 19, Chevron Functional & WW Team Resources

- Remove page 41/42 (double sided)

Section 19, Chevron Functional & WW Team Resources

- Print page 41/42 double sided

Front of Book

Once your update process is completed, print this Update/Revision Notice single sided and add this update notice to your Core Plan Front of Book following any previous update notices.

Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.

UPDATE/REVISION NOTICE**Revision # 0004****To All Holders of the Core Plan****Revision Date: May 2004****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- This sheet contains instructions for updating your Core Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: doug.flaherty@ptseps.com.

Remove Existing Pages	Replace with New Pages
Core Plan CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Core Plan provided
Section 1, Information Summary <ul style="list-style-type: none"> • Pages 1 through 4 	Section 1, Information Summary <ul style="list-style-type: none"> • Pages 1 through 4
Front of Book Once your update process is completed, insert this Update/Revision Notice in your Core Plan Front of Book following any previous update notices. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0005****To All Holders of the Core Plan****Revision Date: September 2004****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- This sheet contains instructions for updating your Core Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: doug.flaherty@ptseps.com.

Remove Existing Pages	Replace with New Pages
Core Plan CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Core Plan provided
Table of Contents <ul style="list-style-type: none"> • Sections 3 and 4 Table of Contents double sided • Sections 7 and 8 Table of Contents double sided • Section 19 Table of Contents double sided 	Table of Contents <ul style="list-style-type: none"> • Print Sections 3 and 4 Table of Contents double sided • Print Section 7 and first page of Section 8 Table of Contents double sided • Print Section 19 Table of Contents double sided
Section 1, Information Summary <ul style="list-style-type: none"> • Remove page 1/2 double sided 	Section 1, Information Summary <ul style="list-style-type: none"> • Print page 1/2 double sided
Section 3, Spill Detection/Mitigation <ul style="list-style-type: none"> • Remove Table of Contents single sided • Remove page 11/12 double sided 	Section 3, Spill Detection/Mitigation <ul style="list-style-type: none"> • Print Table of Contents single sided • Print page 11/12 double sided
Section 7, Job Site Safety Plan <ul style="list-style-type: none"> • Remove entire section contents 	Section 7, Job Site Safety Plan (Complete new section) <ul style="list-style-type: none"> • Print the title page single sided • Print Table of Contents single sided • Print pages 1 through 12 double sided
Section 11, Communications <ul style="list-style-type: none"> • Remove page 9 	Section 11, Communications <ul style="list-style-type: none"> • Print page 9 single sided
Section 12, Training & Drills <ul style="list-style-type: none"> • Remove pages 5/6 	Section 12, Training & Drills <ul style="list-style-type: none"> • Print pages 5/6 double sided

Revision # 0005**To All Holders of the Core Plan****Revision Date: September 2004****Section 19, Functional & Worldwide Team Resources**

- Remove entire section contents

Section 19, Functional & Worldwide Team Resources**(Complete new section)**

- Print the title page single sided
- Print the table of contents double sided
- Print pages 1 through 46 double sided
- Print page 47 single sided

Front of Book

Once your update process is completed, print this Update/Revision Notice single sided and insert in your Core Plan Front of Book following any previous update notices.

Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.

UPDATE/REVISION NOTICE**Revision # 0006****To All Holders of the ChevronTexaco Pipeline Company Core Plan****RSPA Plan Sequence #210****Revision Date: March 2005****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- This sheet contains instructions for updating your Core Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: doug.flaherty@ptseps.com.

Remove Existing Pages	Replace With New Pages
Core Plan CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Core Plan provided
Table of Contents <ul style="list-style-type: none"> • Remove entire table of contents 	Table of Contents <ul style="list-style-type: none"> • Print entire table of contents double sided
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Remove page 4 • Remove page 5 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Print page 4 single sided • Print page 5 single sided
Section 4, Oil Spill Removal Information <ul style="list-style-type: none"> • Remove Table of Contents single sided 	Section 4, Oil Spill Removal Information <ul style="list-style-type: none"> • Print Table of Contents single sided • New page to add print page 9 single sided
Section 5, Response Activities <ul style="list-style-type: none"> • Remove entire section contents 	Section 5, Response Activities <ul style="list-style-type: none"> • Print title page single sided • Print Table of Contents single sided • Print pages 1 through 8 double sided
Section 6, Incident Command System <ul style="list-style-type: none"> • Remove entire section contents 	Section 6, Incident Command System <ul style="list-style-type: none"> • Print title page single sided • Print Table of Contents single sided • Print pages 1/2 double sided • Print page 3 single sided
Section 13, Plan Review, Revisions and Update Program <ul style="list-style-type: none"> • Remove page 1 	Section 13, Plan Review, Revisions and Update Program <ul style="list-style-type: none"> • Print page 1 single sided

Revision # 0006**To All Holders of the ChevronTexaco Pipeline Company Core Plan****RSPA Plan Sequence #210****Revision Date: March 2005****Section 15, Documentation**

- Remove entire section contents

Section 15, Documentation

- Print title page single sided
- Print Table of Contents single sided
- Print pages 1 through the end of the section double sided

Section 18, Emergency Response Exercises (HES 706)

- Remove entire section contents and index tab

Section 18, Emergency Response Exercises (HES 706)

- New index tab titled "Release Exercises- HES 706" provided
- Print title page single sided
- Print Table of Contents double sided
- Print pages 1 through 32 double sided

Section 19, Chevron Functional & Worldwide Team Resources

- Remove entire section contents

Section 19, Chevron Functional & Worldwide Team Resources

- Print title page single sided
- Print Table of Contents double sided
- Print pages 1 through 46 double sided
- Print page 47 single sided

Front of Book

Once your update process is completed, print this Update/Revision Notice single sided and insert in your Core Plan Front of Book following any previous update notices.

Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.

UPDATE/REVISION NOTICE**Revision # 0007****To All Holders of the Chevron Pipe Line Company Core Plan****RSPA Plan Sequence #210****Revision Date: August 2005****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- This sheet contains instructions for updating your Core Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

NOTE: This is an electronic update only; no CD will be issued at this time.

Remove Existing Pages	Replace With New Pages
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Remove pages 1/2 • Remove page 5 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Print pages 1/2 double sided • Print page 5 single sided
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Core Plan Front of Book following any previous update notices.	
Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com , when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0008****To All Holders of the Chevron Pipe Line Company Core Plan****OPS Plan Sequence #210****Revision Date: September 2005****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- This sheet contains instructions for updating your Core Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Existing Pages	Replace With New Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Front of Book <ul style="list-style-type: none"> • Remove laminated title page • New to add 	Front of Book <ul style="list-style-type: none"> • Print title page in color single sided and laminate it • Print DOT Approval Letter (2 pages) dated May 10, 2005 single sided and insert as first pages behind the Front of Book index tab
Table of Contents Index Tab <ul style="list-style-type: none"> • Remove Section 1 and 2 table of contents (1 page) • Remove Section 5 and 6 table of contents (1 page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Print Section 1 and 2 table of contents (1 page) double sided • Print Section 5 and 6 table of contents (1 page) double sided
Section 1, Information Summary <ul style="list-style-type: none"> • Remove Table of Contents • Remove pages 1 through 5 	Section 1, Information Summary <ul style="list-style-type: none"> • Print Table of Contents single sided • Print pages 1 through 6 double sided
Section 4, OSRO Information <ul style="list-style-type: none"> • Remove pages 3 through 6 	Section 4, OSRO Information <ul style="list-style-type: none"> • Print pages 3 through 6 double

Revision # 0008**To All Holders of the Chevron Pipe Line Company Core Plan****OPS Plan Sequence #210****Revision Date: September 2005****Section 6, Incident Command System**

- Remove Table of Contents
- Remove pages 1 through 3

Section 6, Incident Command System

- Print Table of Contents single sided
- Print pages 1/2 double sided
- Print page 3 single sided

Section 18, Emergency Response Release Exercise (HES 706)

- Remove pages 7 through 10
- Remove pages 15 through 18

Section 18, Emergency Response

- Print pages 7 through 10 double sided
- Print pages 15 through 18 double sided

Front of Book

Once your update process is completed, print this Update/Revision Notice single sided and insert in your Core Plan Front of Book following any previous update notices.

Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.

UPDATE/REVISION NOTICE

Revision # 0009

To All Holders of the Chevron Pipeline Company Core Plan

DOT/PHMSA Plan Sequence #210

Revision Date: January 2006

Important – please read before you begin this update process:

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- **This sheet contains instructions for updating your Core Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**
- **Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.**

Remove Existing Pages	Replace With New Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Manual Cover and Spine <ul style="list-style-type: none"> • Remove current manual cover and spine 	Manual Cover and Spine <ul style="list-style-type: none"> • Insert new current manual cover and spine provided
Front of Book <ul style="list-style-type: none"> • Remove laminated title page 	Front of Book <ul style="list-style-type: none"> • Print title page in color single sided and laminate it
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following any previous update notices.	
Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0009A****To All Holders of the Chevron Pipeline Company Core Plan****DOT/PHMSA Plan Sequence #210****Revision Date: January 2006****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- **This sheet contains instructions for updating your Core Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Per Barry Staskywicz, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**
- **Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.**

Remove Existing Pages	Replace With New Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Manual Cover and Spine <ul style="list-style-type: none"> • Remove current manual cover and spine 	Manual Cover and Spine <ul style="list-style-type: none"> • Insert new current manual cover and spine provided
Front of Book <ul style="list-style-type: none"> • Remove laminated title page 	Front of Book <ul style="list-style-type: none"> • Print title page in color single sided and laminate it
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Core State Appendix Front of Book following any previous update notices.	
Per Barry Staskywicz, notify PTS (Willie Eldridge) via e-mail at <u>willie.eldridge@ptseps.com</u>, when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0010****To All Holders of the Chevron Pipeline Company Core Plan****OPS Plan Sequence #210****Revision Date: February 2006****Important – please read before you begin this update process:**

- Please have your hard copy of the Core Plan available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- This sheet contains instructions for updating your Core Emergency Response Plan.
- **This process must be completed within 14 working days of receipt of this document.**
- **Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Existing Pages	Replace With New Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Front of Book <ul style="list-style-type: none"> • Entire contents 	Front of Book <ul style="list-style-type: none"> • Print entire contents single sided
Table of Contents Index Tab <ul style="list-style-type: none"> • The entire contents behind the Table of Contents index tab 	Table of Contents Index Tab <ul style="list-style-type: none"> • Print Sections 1 through Section 20 table of contents double sided (14 double sided pages)
Section 1, Information Summary <ul style="list-style-type: none"> • Entire contents 	Section 1, Information Summary <ul style="list-style-type: none"> • Print the title page single sided • Print table of contents single sided • Print pages 1 through 6 double sided
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Entire contents 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Print the title page single sided • Print table of contents single sided • Print pages 1 through 4 double sided • Print page 5 single sided • Print page 6 11X17 single sided • Print page 7 single sided
Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> • Remove all 11 X 17 blue Response Guides located after page 17 	Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> • Insert new 11 X 17 blue Response Guides provided (16 pages)

Revision # 0010**To All Holders of the Chevron Pipeline Company Core Plan****OPS Plan Sequence #210****Revision Date: February 2006**

Section 4, OSRO Information <ul style="list-style-type: none"> Entire contents 	Section 4, OSRO Information <ul style="list-style-type: none"> Print the title page single sided Print table of contents single sided Print pages 1 through 8 double sided Print page 9 single sided
Section 5, Response Activities <ul style="list-style-type: none"> Table of contents Pages 1/2 	Section 5, Response Activities <ul style="list-style-type: none"> Print table of contents single sided Print pages 1/2 double sided
Section 7, Job Site Safety Plan <ul style="list-style-type: none"> Entire contents 	Section 7, Job Site Safety Plan (Complete new section) <ul style="list-style-type: none"> Print the title page single sided Print table of contents single sided Print page A single sided Print pages 1 through 10 double sided Print page 11 single sided
Section 11, Communications <ul style="list-style-type: none"> Pages 3/4 	Section 11, Communications <ul style="list-style-type: none"> Print pages 3/4 double sided
Section 18, Emergency Response Release Exercise (HES 706) <ul style="list-style-type: none"> Entire contents 	Section 18, Emergency Response <ul style="list-style-type: none"> Print the title page single sided Print table of contents double sided Print pages 1 through 32 double sided
Section 19, Functional & Worldwide Team Resources <ul style="list-style-type: none"> Entire contents 	Section 19, Functional & Worldwide Team Resources (Complete new section) <ul style="list-style-type: none"> Print the title page single sided Print the table of contents double sided Print pages 1 through 46 double sided
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Core Plan Front of Book following any previous update notices.	
Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0011****To All Holders of the Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: July 2006****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Please have your hard copy of the State Appendix available for reference to assist you in processing this update. All pages for your update are included in this file for printing.
- **Per Barry Staskywitz, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Existing Pages	Replace With New Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Section 1, Information Summary <ul style="list-style-type: none"> • Remove pages 1 through 4 	Section 1, Information Summary <ul style="list-style-type: none"> • Print pages 1 through 4 double sided
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Remove pages 1/2 • Remove page 5 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Print pages 1/2 double sided • Print page 5 single sided
Section 4, OSRO Information <ul style="list-style-type: none"> • Remove pages 3/4 	Section 4, OSRO Information <ul style="list-style-type: none"> • Print pages 3/4 double sided
Section 5, Response Activities <ul style="list-style-type: none"> • Remove pages 1/2 	Section 5, Response Activities <ul style="list-style-type: none"> • Print pages 1/2 double sided
Section 6, Incident Command System <ul style="list-style-type: none"> • Remove pages 1/2 	Section 6, Incident Command System <ul style="list-style-type: none"> • Print pages 1/2 double sided
Section 7, Job Site Safety Plan <ul style="list-style-type: none"> • Remove pages 5/6 	Section 7, Job Site Safety Plan <ul style="list-style-type: none"> • Print pages 5/6 double sided
Section 12, Training & Drills <ul style="list-style-type: none"> • Remove page 9 	Section 12, Training & Drills <ul style="list-style-type: none"> • Print page 9 single sided
Section 13, Plan Review & Updates <ul style="list-style-type: none"> • Remove page 1 	Section 13, Plan Review & Updates <ul style="list-style-type: none"> • Print page 1 single sided

Revision # 0011**To All Holders of the Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: July 2006****Section 18, Emergency Response Release Exercises (HES 706)**

- Remove pages 1/2
- Remove pages 7/8
- Remove pages 13/14
- Remove pages 25/26
- Remove pages 31/32

Section 18, Emergency Response Release Exercises (HES 706)

- Print pages 1/2 double sided
- Print pages 7/8 double sided
- Print pages 13/14 double sided
- Print pages 25/26 double sided
- Print pages 31/32 double sided

Front of Book**Once your update process is completed, print this Update/Revision Notice single sided and insert in your Core Plan Front of Book following any previous update notices.****Per Barry Staskywicz, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**

UPDATE/REVISION NOTICE**Revision # 0012****To All Holders of the Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: September 2006****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- **Per Barry Staskywicz, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Insert Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire contents 	Table of Contents Index Tab <ul style="list-style-type: none"> • Entire contents
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Entire section 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Entire section
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Core Plan Front of Book following any previous update notices.	
Notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0013****To All Holders of the Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: November 2006****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 1 and 2 table of contents (1 double sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 1 and 2 table of contents (1 double sided page)
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Table of Contents page • Page 7 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Table of Contents page • No replacement page
Front of Book Once your update process is completed, insert this Update/Revision Notice in your Core Plan Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0014****Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: April 2007****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Front of Book <ul style="list-style-type: none"> • Regulatory Compliance page 	Front of Book <ul style="list-style-type: none"> • Regulatory Compliance page
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire section 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents
Section 12, Training & Drills <ul style="list-style-type: none"> • Table of Contents • Pages 3/4 	Section 12, Training & Drills <ul style="list-style-type: none"> • Table of Contents • Pages 3/4
Section 13, Plan Review & Updates <ul style="list-style-type: none"> • Entire section 	Section 13, Plan Review & Updates <ul style="list-style-type: none"> • New contents
Section 18, ER Spill Exercises (HES 706) <ul style="list-style-type: none"> • Entire section 	Section 18, ER Spill Exercises (HES 706) <ul style="list-style-type: none"> • New contents
Front of Book Once your update process is completed, insert this Update/Revision Notice in your Core Plan Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0015****Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: June 2007****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Front of Book <ul style="list-style-type: none"> • Laminated title page • Certifications page 	Front of Book <ul style="list-style-type: none"> • Laminated title page • Certifications page
Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 5 and 6 table of contents (1 double sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 5 and 6 table of contents (1 double sided page)
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Pages 1 through 4 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Pages 1 through 4
Section 4, OSRO Information <ul style="list-style-type: none"> • Remove pages 1/2 	Section 4, OSRO Information <ul style="list-style-type: none"> • Pages 1/2
Section 5, Response Activities <ul style="list-style-type: none"> • Pages 1/2 	Section 5, Response Activities <ul style="list-style-type: none"> • Pages 1/2
Section 6, Incident Command System <ul style="list-style-type: none"> • Entire contents 	Section 6, Incident Command System <ul style="list-style-type: none"> • New contents
Front of Book Once your update process is completed, insert this Update/Revision Notice in your Core Plan Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0016****Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: January 2008****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Front of Book <ul style="list-style-type: none"> • Laminated title page 	Front of Book <ul style="list-style-type: none"> • Laminated title page
Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 1 and 2 table of contents (1 double sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 1 and 2 table of contents (1 double sided page)
Section 1, Information Summary <ul style="list-style-type: none"> • Entire contents 	Section 1, Information Summary <ul style="list-style-type: none"> • New Contents
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Entire contents 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • New Contents
Section 6, Incident Command System <ul style="list-style-type: none"> • Pages 1/2 	Section 6, Incident Command System <ul style="list-style-type: none"> • Pages 1/2
Front of Book Once your update process is completed, insert this Update/Revision Notice in your Core Plan Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0017****Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: March 2008****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> • Pages 11/12 	Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> • Pages 11/12
Section 7, Job Site Safety Plan <ul style="list-style-type: none"> • Page A (single sided page) 	Section 7, Job Site Safety Plan <ul style="list-style-type: none"> • Page A (single sided page)
Section 18, ER Spill Exercises (HES 706) <ul style="list-style-type: none"> • Pages 7/8 	Section 18, ER Spill Exercises (HES 706) <ul style="list-style-type: none"> • Pages 7/8
Front of Book Once your update process is completed, insert this Update/Revision Notice in your Core Plan Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE

Revision # 0018

Chevron Pipe Line Company Core Plan

PHMSA Plan Sequence #210

Revision Date: July 2008

Important – please read before you begin this update process:

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of the Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Replace with new electronic version of this Core Plan provided on the State Appendix CD
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire section 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Pages 1/2 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Pages 1/2
Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> • Title Page, Table of Contents & Pages 1 through 16 	Section 3, Spill Detection / Mitigation <ul style="list-style-type: none"> • Title Page, Table of Contents & Pages 1 through 16
Section 4, OSRO Information <ul style="list-style-type: none"> • Pages 5/6 	Section 4, OSRO Information <ul style="list-style-type: none"> • Pages 5/6
Section 5, Response Activities <ul style="list-style-type: none"> • Entire contents 	Section 5, Response Activities <ul style="list-style-type: none"> • New Contents
Section 11, Communications <ul style="list-style-type: none"> • Page 1 • Pages 3/4 	Section 11, Communications <ul style="list-style-type: none"> • Page 1 • Pages 3/4
Section 15, Documentation <ul style="list-style-type: none"> • Index Tab and entire contents 	Section 15, Documentation / ICS Forms <ul style="list-style-type: none"> • New Index tab and contents
Section 16, Material Safety Data Sheets <ul style="list-style-type: none"> • Page 1 	Section 16, Material Safety Data Sheets <ul style="list-style-type: none"> • Page 1
Section 18, Emergency Response Release Exercise (HES 706) <ul style="list-style-type: none"> • Pages 11/12 	Section 18, Emergency Response Release Exercise (HES 706) <ul style="list-style-type: none"> • Pages 11/12
ICS Forms Index Tab and Contents	No replacement
Front of Book Once your update process is completed, insert this Update/Revision Notice in your Core Plan Front of Book index tab following previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

COMPANY CORE PLAN**FRONT OF BOOK****UPDATE/REVISION NOTICE****Revision # 0019****Chevron Pipe Line Company Core Plan****PHMSA Plan Sequence #210****Revision Date: July 2009****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of the Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Refer to your State Appendix CD to replace with new electronic version of this Core Plan on the State Appendix CD
Section 1, Information Summary Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 1, Information Summary Index Tab <ul style="list-style-type: none"> • New Contents
Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Page 3 • Page 6 	Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Page 3 • Page 6
Front of Book Index Tab Once the update process is completed, insert this Update/Revision Notice in the Core Plan Front of Book index tab following previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

COMPANY CORE PLAN**FRONT OF BOOK****UPDATE/REVISION NOTICE**

Chevron Pipe Line Company Core Plan Revision # 0020 Revision Date: May 2010 PHMSA Plan Sequence #210	
Important – please read before you begin this update process: <ul style="list-style-type: none"> • This process must be completed within 14 working days of receipt of this document. • This sheet contains instructions for updating your Company Core Emergency Response Plan. • Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com. 	
Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of the Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Refer to your State Appendix CD to replace with new electronic version of this Core Plan on the State Appendix CD
Front of Book Index Tab <ul style="list-style-type: none"> • Certifications (1 page) • New page to add behind the above Certifications page • Regulatory Compliance (1 page) 	Front of Book Index Tab <ul style="list-style-type: none"> • Certifications (1 page) • Certifications of Significant and Substantial Harm • Regulatory Compliance (1 page)
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire section 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents
Section 1, Information Summary Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 1, Information Summary Index Tab <ul style="list-style-type: none"> • New contents
Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 2, Notifications Index Tab <ul style="list-style-type: none"> • New contents
Section 4, OSRO Information Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 4, OSRO Information Index Tab <ul style="list-style-type: none"> • New contents
Section 7, Job Site Safety Plan Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 7, Job Site Safety Plan Index Tab <ul style="list-style-type: none"> • New contents
Section 14, Public Relations Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 14, Public Relations Index Tab <ul style="list-style-type: none"> • New Contents
Section 19, Chevron Functional & WW Team Resources Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 19, Chevron Functional & WW Team Resources Index Tab <ul style="list-style-type: none"> • New contents
Section 20 Gas Pipelines & Facilities N. American EOP Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 20 Gas Pipelines & Facilities N. American EOP Index Tab <ul style="list-style-type: none"> • New contents
Front of Book Index Tab Once the update process is completed, insert this Update/Revision Notice in the Core Plan Front of Book index tab following previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

COMPANY CORE PLAN

FRONT OF BOOK

UPDATE/REVISION NOTICE

Chevron Pipe Line Company Core Plan**Revision # 0021****Revision Date: May 2011****PHMSA Plan Sequence #210****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages**Replacement Pages****Core Plan Electronic Data Files**

- Destroy or delete all previous dated CDs or electronic versions of the Core Plan that contain the Company Core Plan

New Core Plan Electronic Data Files

- Refer to your State Appendix CD to replace with new electronic version of this Core Plan on the State Appendix CD

Section 1, Information Summary Index Tab

- Entire contents

Section 1, Information Summary Index Tab

- New contents

Section 2, Notifications Index Tab

- Entire contents

Section 2, Notifications Index Tab

- New contents

Section 3 Spill Detection/Mitigation Index Tab

- Spill Response Guides pages 18 thru 33 (11 X 17 blue sheets)

Section 3 Spill Detection/Mitigation Index Tab

- Spill Response Guides pages 18 thru 33 (11 X 17 blue sheets)

Section 4, OSRO Information Index Tab

- Entire contents

Section 4, OSRO Information Index Tab

- New contents

Front of Book Index Tab

Once the update process is completed, insert this Update/Revision Notice in the Core Plan Front of Book index tab following previous update notices.

This update must be completed within 14 working days of receipt of this document.

COMPANY CORE PLAN

FRONT OF BOOK

UPDATE/REVISION NOTICE

Chevron Pipe Line Company Core Plan**Revision # 22****Revision Date: October 2011****PHMSA Plan Sequence #210****Important – please read before you begin this update process:**

- This process must be completed within 14 working days of receipt of this document.
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of the Core Plan that contain the Company Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Refer to your State Appendix CD to replace with new electronic version of this Core Plan on the State Appendix CD
Front Of Book Index Tab <ul style="list-style-type: none"> • Laminated title page • Regulatory Compliance page 	Front Of Book Index Tab <ul style="list-style-type: none"> • Laminated title page • Regulatory Compliance page
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire contents 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents
Section 18, ER Spill Exercises (HES 706) Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 18, ER Spill Exercises (HES 706) Index Tab <ul style="list-style-type: none"> • New contents
Front of Book Index Tab Once the update process is completed, insert this Update/Revision Notice in the Core Plan Front of Book index tab following previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

COMPANY CORE PLAN**FRONT OF BOOK****UPDATE/REVISION NOTICE****Chevron Pipe Line Company Core Plan****Revision # 23****Revision Date: December 2011****PHMSA Plan Sequence #210****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of the Core Plan that contain the Company Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Refer to your State Appendix CD to replace with new electronic version of this Core Plan on the State Appendix CD
Section 3 Spill Detection/Mitigation Index Tab <ul style="list-style-type: none"> • Pages 1 thru 4 	Section 3 Spill Detection/Mitigation Index Tab <ul style="list-style-type: none"> • Pages 1 thru 4
Front of Book Index Tab Once the update process is completed, insert this Update/Revision Notice in the Core Plan Front of Book index tab following previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

COMPANY CORE PLAN**FRONT OF BOOK****Chevron Pipe Line Company Core Plan****Revision # 22 & 23 Combined Update****Revision Date: April 2012****PHMSA Plan Sequence #210****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
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Table of Contents Index Tab <ul style="list-style-type: none"> • Entire contents 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents
Section 3 Spill Detection/Mitigation Index Tab <ul style="list-style-type: none"> • Pages 1 thru 4 	Section 3 Spill Detection/Mitigation Index Tab <ul style="list-style-type: none"> • Pages 1 thru 4
Section 18, ER Spill Exercises (HES 706) Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 18, ER Spill Exercises (HES 706) Index Tab <ul style="list-style-type: none"> • New contents
Front of Book Index Tab <ul style="list-style-type: none"> • No pages to remove 	Front of Book Index Tab <ul style="list-style-type: none"> • Insert the Update/Revision Notices #22 & 23 in the Core Plan Front of Book index tab following previous update notices.
Once the update process is completed, insert this Update/Revision Notice in the Core Plan Front of Book index tab following previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

COMPANY CORE PLAN

FRONT OF BOOK

UPDATE/REVISION NOTICE

Chevron Pipe Line Company Core Plan

Revision #24

Revision Date: May 2012

PHMSA Plan Sequence #210

Important – please read before you begin this update process:

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

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Section 1, Information Summary Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 1, Information Summary Index Tab <ul style="list-style-type: none"> • New contents
Section 4, OSRO Information Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 4, OSRO Information Index Tab <ul style="list-style-type: none"> • New contents
Section 5, Response Activities Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 5, Response Activities Index Tab <ul style="list-style-type: none"> • New Contents
Section 8, Cleanup Procedures Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 8, Cleanup Procedures Index Tab <ul style="list-style-type: none"> • New Contents
Section 12, Training & Drills Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 12, Training & Drills Index Tab <ul style="list-style-type: none"> • New Contents
Front of Book Index Tab <ul style="list-style-type: none"> • No pages to remove 	Front of Book Index Tab <ul style="list-style-type: none"> • Once the update process is completed, insert this Update/Revision Notice in the Core Plan Front of Book index tab following previous update notices.
This update must be completed within 14 working days of receipt of this document.	

COMPANY CORE PLAN

FRONT OF BOOK

UPDATE/REVISION NOTICE

Chevron Pipe Line Company Core Plan**Revision #25****Revision Date: June 2014****PHMSA Plan Sequence #210****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your Company Core Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Core Plan Electronic Data Files <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of the Core Plan 	New Core Plan Electronic Data Files <ul style="list-style-type: none"> • Refer to your State Appendix CD which contains the new electronic version of this Core Plan on the State Appendix CD
Section 1, Information Summary Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 1, Information Summary Index Tab <ul style="list-style-type: none"> • New contents
Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 2, Notifications Index Tab <ul style="list-style-type: none"> • New contents
Front of Book Index Tab <ul style="list-style-type: none"> • No pages to remove 	Front of Book Index Tab <ul style="list-style-type: none"> • Once the update process is completed, insert this Update/Revision Notice in the Core Plan Front of Book index tab following previous update notices.
This update must be completed within 14 working days of receipt of this document.	

INFORMATION SUMMARY

SECTION 1 INFORMATION SUMMARY

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 Texas 3

 New Mexico 3

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 California Response Zone 5

 California..... 5

COMPANY CORE PLAN**SECTION 1
INFORMATION SUMMARY****OWNER OPERATOR INFORMATION**

Chevron Pipe Line Company
4800 Fournace Place
Bellaire, TX 77401-2324
Control Center: 800-762-3404

RESPONSE ZONES

The Company Emergency Response Plan includes 4 Response Zones. This Core Plan along with the applicable State Appendix makes up the Company Emergency Response Plan for a particular Response Zone. The Response Zones are as follows:

Response Zone *1	Core	State Appendix Plan *2
Louisiana Response Zone	Core Plan	1. Louisiana 2. Mississippi 3. Alabama*
Texas Response Zone	Core Plan	1. Texas 2. New Mexico*
California Response Zone	Core Plan	1. California
Northwest Response Zone	Core Plan	1. Utah 2. Colorado 3. Wyoming*

*** Note 1:** The Aitken Creek Gas Storage, ULC, located in Fort St. John, British Columbia, Canada, is a complete stand alone plan. The Plan is not regulatory connected with the Company Core Plan.

***Note 2:** Alabama, New Mexico and Wyoming State Appendices are Response Plans for Facilities which are not subject to DOT Part 194 oil spill regulations.

COMPANY CORE PLAN

SECTION 1
INFORMATION SUMMARY

OWNER/OPERATOR RESPONSE ZONE DESCRIPTION

Louisiana Response Zone

Louisiana	
Parish	
Acadia	Plaquemines
Ascension	Pointe Coupee
Assumption	St. Bernard
Calcasieu	St. Charles
Cameron	St. James
East Baton Rouge	St. John the Baptist
Iberia	St. Landry
Iberville	St. Martin
Jefferson	St. Mary
Jefferson Davis	Terrebone
Lafayette	Vermilion
Lafourche	West Baton Rouge
Orleans	

Alabama
County
Mobile

Mississippi
County
Harrison
Jackson

COMPANY CORE PLAN**SECTION 1
INFORMATION SUMMARY****Texas Response Zone**

Texas	
County	
Anderson	Kent
Andrews	Liberty
Angelina	Martin
Brazoria	Midland
Callahan	Mitchell
Chambers	Nacogdoches
Cherokee	Navarro
Coke	Nolan
Crane	Orange
Crockett	Palo Pinto
Eastland	Parker
Ector	Pecos
Ellis	Polk
Erath	Reagan
Freestone	Rusk
Gaines	Scurry
Galveston	Shackelford
Glasscock	Smith
Gregg	Stephens
Hardin	Sterling
Harris	Taylor
Henderson	Tyler
Hill	Upshur
Hood	Upton
Houston	Van Zandt
Howard	Ward
Jack	Winkler
Jefferson	Wise
Johnson	

New Mexico
County
Eddy
Lea
Roosevelt

COMPANY CORE PLAN**SECTION 1
INFORMATION SUMMARY****Northwest Response Zone**

Utah	
County	
Box Elder	Summit
Dagget	Uintah
Davis	Wasatch
Duchesne	Weber
Salt Lake	

Wyoming
County
Sweetwater

Colorado
County
Rio Blanco

COMPANY CORE PLAN**SECTION 1
INFORMATION SUMMARY****California Response Zone**

California	
County	
Alameda	Sacramento
Contra Costa	San Joaquin
Fresno	San Louis Obispo
Kern	Santa Barbara
King	Santa Clara
Los Angeles	Solano
Merced	Stanislaus
Monterey	Ventura
Orange	Yolo

IMMEDIATE NOTIFICATIONS

SECTION 2 IMMEDIATE NOTIFICATIONS

IMMEDIATE NOTIFICATIONS..... 1

INTERNAL HES NOTIFICATION FLOWCHART..... 2

INCIDENTS REQUIRING IMMEDIATE INTERNAL CORPORATE
MANAGEMENT NOTIFICATION 3

IMMEDIATE NOTIFICATION OF HES INCIDENT FORM 4

EMERGENCY NOTIFICATION TO MANAGEMENT FAX..... 5

AGENCY NOTIFICATION CHART..... 6

SECTION 2

COMPANY CORE PLAN

IMMEDIATE NOTIFICATIONS

IMMEDIATE NOTIFICATIONS

Control Center	800-762-3404
Ambulance, Police or Fire Department	911
Security Issues	Emergency Response Notification Procedures as needed. Also contact: Juan Calderon 281-682-9564
HES Corporate Notifications	Pages 2 through 5 this Section
National Response Center Telephonic Requirements	Pages 6

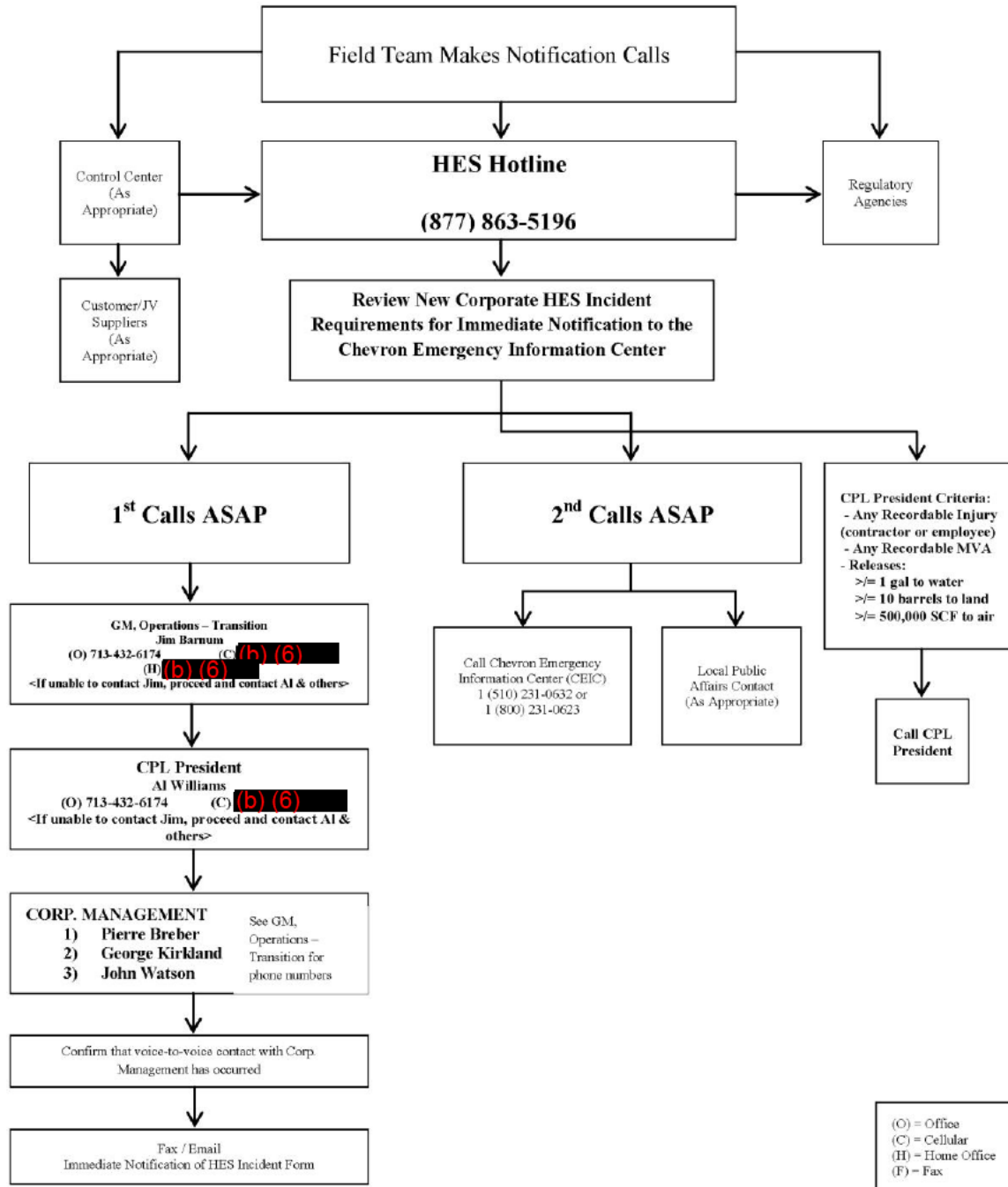
Note: State and Local notification telephone numbers can be located in the “Notifications” Section of each State Appendix Plan.

SECTION 2

COMPANY CORE PLAN

IMMEDIATE NOTIFICATIONS

INTERNAL HES NOTIFICATION FLOWCHART

CHEVRON PIPE LINE CORPORATION MANAGEMENT
INTERNAL HES NOTIFICATION FLOWCHART

(O) = Office
(C) = Cellular
(H) = Home Office
(F) = Fax

HES Hotline Staff Member contacted will become the Incident Contact who will perform the initial and update communications during the emergency unless relieved

- The Incident Contact has the responsibility to contact a person in each applicable box of the next level of the notification chain
- Fax and/or Email Emergency Notification to A. Williams, J. Patry, P. Breber, G. Kirkland and Local Public Affairs

Revised 05/2014

SECTION 2

COMPANY CORE PLAN

IMMEDIATE NOTIFICATIONS

INCIDENTS REQUIRING IMMEDIATE INTERNAL CORPORATE MANAGEMENT NOTIFICATION

Note: Internal Corporate Notification information only, not synonymous with Federal or State spill reporting Notifications Criteria located elsewhere in this Plan.

Incidents Requiring Immediate Notification to Corporate Management

Highlighted Fields Indicate Reporting Requirements of a More Stringent Nature Within and Through the Chevron Gas & Midstream Organization

Incident Type	CG&M SBU* President or VP	CG&M President	Corp Emergency Response Staff and VP, HES	Reporting Officer and Chairman
Work-related fatality of employee, contractor, or third party	M	M	M	M
Work-related recordable injuries of employee, contractor, or third party	M	M		
Incidents resulting in multiple employee, contractor, or third party overnight hospitalization; (except for observation only)	M	M	M	M
Petroleum or petroleum product spills equal to or greater than 1 gallon and less than 1 barrels to water	M			
Petroleum or petroleum product spills equal to or greater than 1 barrels and less than 50 barrels to water	M	M		
Petroleum or petroleum product spills greater than 50 barrels to water	M	M	M	M
Petroleum or petroleum product spills greater than 10 barrels and less than 500 barrels to land	M	M		
Petroleum or petroleum product spills greater than 500 barrels to land	M	M	M	M
Any incident that attracts international or broad USA media coverage	M	M	M	M
Any incident that attracts significant local media coverage	M	M	M	R
Natural disaster, political unrest, civil disturbance, or other situations that threatens safety, health, or welfare of employees or contractors	M	M	M	R
Incidents resulting in the need for employees or public to shelter-in-place or evacuate	M	M	M	R
Release of Produced Gas, Natural Gas, or LPG greater than 500,000 SCF and less than 10 MMSCF or that presents fire/explosion hazard to populated area	M			
Release of Produced Gas, Natural Gas, or LPG greater than 10 MMSCF or that presents fire, explosion hazard to populated area	M	M	M	R
Any release of LNG that is reported to government agencies, or attracts, or is expected to attract media attention, or: involves a vessel incident.	M	M	R	R
Chemical release to land, water, or air greater than 8000 Kg or that threatens human safety or health or adverse impact to environment.	M	M	M	R
Fire, explosion, well blowout or other incident damaging Company and/or third party assets with costs likely to exceed \$500,000 for physical damage, loss of product or production, and incident response	M	M	M	R
Note: kidnapping and ransom	See CVX Corporate Security Guidelines			

Note:

M = Mandatory (Phone call via operating chain preferred for initial notification. Details can follow via email or fax)

R = Recommended

20110530Upward Notification Require doc

*SBUs may have requirements that differ for what is reportable to their management

SECTION 2

COMPANY CORE PLAN

IMMEDIATE NOTIFICATIONS

IMMEDIATE NOTIFICATION OF HES INCIDENT FORM

To be used when Upward Notification by telephonic and e-mail communication methods are either unable to be performed or prove unsuccessful.

Business Unit:		Location:	
Person Making Notification:	Local Date and Time of Notification:	Contact Number:	
Type of Incident: <input type="checkbox"/> Fatality <input type="checkbox"/> Spill/Release <input type="checkbox"/> Injuries <input type="checkbox"/> National/Significant Local News Coverage <input type="checkbox"/> Other Significant HES Incident _____			
Local Date and Time of Incident:			
Description of Incident/Name of Oil Involved/Estimated Volume of Oil Spilled:			
Injuries:			
Actions Taken or Planned:			
Assistance Required:			
Media Attention:			
Other Information, Including Weather Conditions:			
Corp ERS Team Member Taking Report:			

Fax: 1-510-242-3787

E-mail: ceichl@chevron.com

COMPANY CORE PLAN

SECTION 2
IMMEDIATE NOTIFICATIONS

EMERGENCY NOTIFICATION TO MANAGEMENT FAX

EMERGENCY
NOTIFICATION TO
MANAGEMENT FAX

From:

Chevron Pipe Line Company
4800 Fournace Place
Bellaire, TX 77401

Phone: () -

Fax: (713) 432-3477

Date:

Pages 2

Chevron

Mr. Al Williams (CPL President)
Mr. George Kirkland (Vice Chairman)
Mr. Pierre Breber (Chevron President)

At: (AWilliams@Chevron.com)
(GLKirkland@Chevron.com)
(PBreber@Chevron.com)

CEICHL

(800) 231-0623 (CEICHL)

Remarks: ☐ Urgent ☐ Please Confirm Receipt ☐ Reply ASAP

CPL Emergency Incident Contact is: _____

Phone Number: _____

Revised: 06/01/14

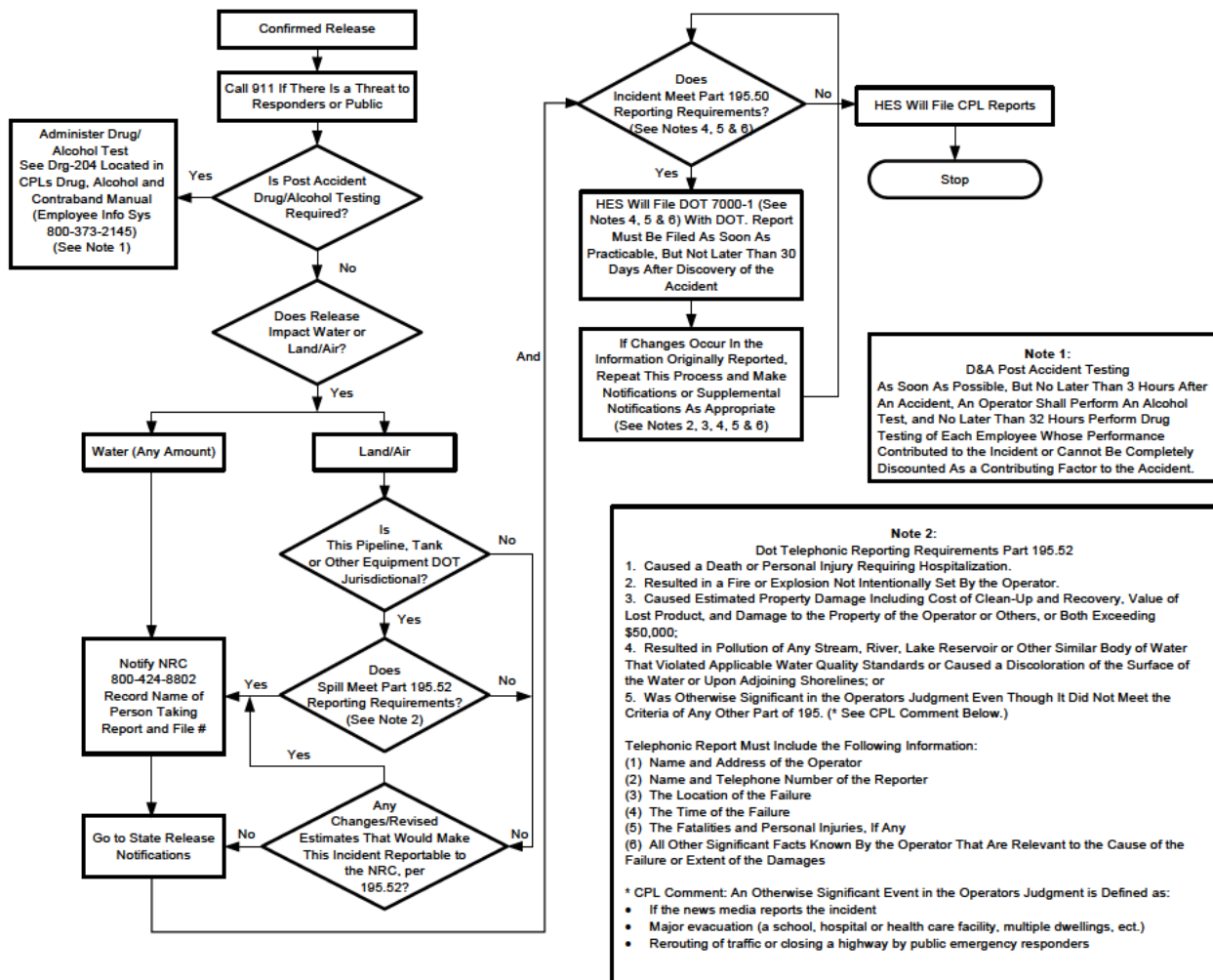
SECTION 2

IMMEDIATE NOTIFICATIONS

COMPANY CORE PLAN

AGENCY NOTIFICATION CHART

Agency Notification Chart



Note 3:
Additional Responder/Agency Telephone Numbers Can Be Found Under Site Specific Tabs and in the Front Pocket Information.

Note 4:
DOT Written Reporting Requirements §195.50
An Accident Report Is Required For Each Failure In a Pipeline System Subject to This Part In Which There is a Release of the Hazardous Liquid or Carbon Dioxide Transported Resulting In Any of the Following:

- (a) Explosion or Fire Not Intentionally Set By Operator
- (b) Release of 5 gallons (19 liters) or More of Hazardous Liquid or Carbon Dioxide, Except That No Report is Required for a Release of Less Than 5 barrels (0.8 cubic meters) Resulting From a Pipeline

Maintenance Activity if the Release is:

- (1) Not Otherwise Reportable Under This Section
- (2) Not One Described in Sec 195.52(a)(4) (Pollution to Water)
- (3) Confined to Company Property or ROW, and
- (4) Cleaned Up Promptly
- (c) Death of Any Person
- (d) Personal Injury Necessitating In-Patient Hospitalization
- (e) Estimated Property Damage, Including Cost of Cleanup and Recovery Value of Lost Product, and Damage to the Property of the Operator or Others, or Both, Exceeding \$50,000

Send Information Regarding the Incident to the Appropriate DOT Specialist Who Will Submit the Written Report DOT 7000-1.

Note 5:
195.54 Accident Reports
(b) Whenever An Operator Receives Any Changes In the Information Reported or Additions to the Original Report on DOT Form 7000-1, It Shall File a Supplemental Report Within 30 Days

Note 6:
For Spills 5 Gals to 5 BBLs Not Otherwise Reportable Under 195.50 (Note 4) Nor Resulting In Water Pollution. Complete Only Page 1 of DOT 7000-1.

For All Other Reportable Spills 5 Gals or 5 or More BBLs or Reportable By Other Criteria Under 195.50 (Note 4), Complete As Much As Possible of the Long Form Within the 30 day Filing Period.

2009-01-20 Agency Notification

SPILL DETECTION / MITIGATION

SECTION 3 SPILL DETECTION / MITIGATION

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DOT Gas Safety Cross Reference	4
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EMERGENCY RESPONSE GUIDES - FIRST RESPONDERS	17
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COMPANY CORE PLAN

SECTION 3
SPILL DETECTION / MITIGATION**SPILL DETECTION AND ON-SCENE SPILL MITIGATION PROCEDURES**

The following methods would be used to initially detect an incident or substantial threat of an incident:

Methods of Initial Discovery
Description
As a result of analyzing remote communication link information at the Control Center.
Reports or inspections from company personnel; Company personnel routinely monitor pipeline gauges and/or pipeline pressure indicators to insure proper operating pressure is being maintained on the pipeline.
Reports from the public or public officials.
Periodic inspections of pipeline right-of-ways via air, water and land transportation.
Reports from field personnel or a report from the Control Center.
As a result of previous experience in dealing with a given condition.

Abnormal Operations That Pose a Threat of a Worst Case Discharge	
Operation	Procedures To Mitigate Or Eliminate Threat
Unauthorized Dredging or Construction in the Pipeline Right-of-Way	All pipelines will be marked along the right-of-way to inform people working in the area of the existence of the pipeline. All dredging and construction operations will be properly surveyed and identified by COMPANY personnel to ensure any dredging or construction operations do not threaten the pipeline's integrity. Additionally, all pipelines operated by COMPANY are included in the various One Call Programs nationwide.
Catastrophic Weather Event	COMPANY monitors regional weather forecast in order to be prepared for any predictable weather related event. When severe weather, such as a major storm or hurricane, is predicted, COMPANY personnel will monitor the event and determine the appropriate response in accordance with the provisions of COMPANY procedures.
(b) (7)(F), (b) (3)	
Vessel Mooring in Pipeline Right-of-Way	All pipelines will be marked along the right-of-way to inform people working in the area of the existence of the pipeline. Furthermore, navigational aides are maintained by COMPANY in areas where large vessels frequent.

DOT EMERGENCY RESPONSE PLAN ACTIONS**DOT Emergency Condition Procedure Cross Reference**

This Emergency Response Plan provides procedures for safety when emergency conditions occur. The safety sections are cross referenced below:

DOT Safety	ERP Reference
(1) Receiving, identifying and classifying notices of events which need immediate response by the operator or notice to fire, police, or other appropriate public officials and communicating this information to appropriate operator personnel for corrective action.	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification • Core Plan, Section 3, Spill Detection & Mitigation • Core Plan, Section 5, Response Activities • Core Plan, Section 6, ICS
(2) Prompt and effective response to a notice of each type emergency, including fire or explosion occurring near or directly involving a pipeline facility, accidental release of hazardous liquid or carbon dioxide from a pipeline facility, operational failure causing a hazardous condition and natural disaster affecting pipeline facilities.	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification • Core Plan, Section 3, Spill Detection & Mitigation • Core Plan, Section 5, Response Activities • Core Plan, Section 6, ICS
(3) Having personnel, equipment, instruments, tools and material available as needed at the scene of an emergency.	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification • Core Plan, Section 3, Spill Detection & Mitigation • Core Plan, Section 5, Response Activities • Core Plan, Section 6, ICS • Core Plan, Section 4, OSRO's • State Appendix Plan OSRO/Contractors Information
(4) Taking necessary action, such as emergency shutdown or pressure reduction, to minimize the volume of hazardous liquid or carbon dioxide that is released from any section of a pipeline system in the event of a failure.	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification • Core Plan, Section 3, Spill Detection & Mitigation • Core Plan, Section 5, Response Activities
(5) Control of released hazardous liquid or carbon dioxide at an accident scene to minimize the hazards, including possible intentional ignition in the cases of flammable highly volatile liquid.	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification • Core Plan, Section 3, Spill Detection & Mitigation • Core Plan, Section 5, Response Activities • Core Plan, Section 6, ICS
(6) Minimization of public exposure to injury and probability of accidental ignition by assisting with evacuation of residents and assisting with halting traffic on roads and railroads in the affected area, or taking other appropriate action.	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification • Core Plan, Section 3, Spill Detection & Mitigation • Core Plan, Section 5, Response Activities • Core Plan, Section 6, ICS

SECTION 3

COMPANY CORE PLAN

SPILL DETECTION / MITIGATION

DOT Safety	ERP Reference
(7) Notifying fire, police and other appropriate public officials of hazardous liquid or carbon dioxide pipeline emergencies and coordinating with them preplanned and actual responses during an emergency, including additional precautions necessary for an emergency involving a pipeline system transporting a highly volatile liquid.	<ul style="list-style-type: none"> Core Plan, Section 2, Immediate Notification Core Plan, Section 3, Spill Detection & Mitigation Core Plan, Section 5, Response Activities Core Plan, Section 6, ICS
(8) In the case of failure of a pipeline system transporting a highly volatile liquid, use of appropriate instruments to assess the extent and coverage of the vapor cloud and determine the hazardous areas.	<ul style="list-style-type: none"> Core Plan, Section 2, Immediate Notification Core Plan, Section 3, Spill Detection & Mitigation Core Plan, Section 5, Response Activities Core Plan, Section 6, ICS
(9) Providing for a post accident review of employee activities to determine whether the procedures were effective in each emergency and taking corrective action where deficiencies are found.	<ul style="list-style-type: none"> Core Plan, Section 5, Response Activities Core Plan, Section 12, Training & Drill
(10) Actions required to be taken by a controller during an emergency in accordance with 49 CFR 195.446 Control Room Management.	<ul style="list-style-type: none"> Core Plan, Section 2, Immediate Notification Core Plan, Section 3, Spill Detection & Mitigation Core Plan, Section 5, Response Activities Core Plan, Section 6, ICS Control Room Management Plan (CRMP) Program Manual CRM – 101 Roles and Responsibilities CRM – 114 Emergency Call Procedures
Safety-related condition reports. The manual required by paragraph (a) of this section must include instructions enabling personnel who perform operation and maintenance activities to recognize conditions that potentially may be safety-related conditions that are subject to the reporting requirements of Sec. 195.55.	<ul style="list-style-type: none"> Core Plan, Section 3, Spill Detection & Mitigation Core Plan, Section 15, Documentation

SECTION 3

COMPANY CORE PLAN

SPILL DETECTION / MITIGATION

DOT Gas Safety Cross Reference

DOT 192 Safety	ERP Reference
Receiving, identifying and classifying notices of events which require immediate response by the operator.	<ul style="list-style-type: none"> Core Plan, Section 2, Immediate Notification State Appendix Plan, Section 2, Notifications State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
Prompt and effective response to a notice of each type of emergency, including the following:	<ul style="list-style-type: none"> Core Plan, Section 2, Immediate Notification State Appendix Plan, Section 2, Notifications State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
Gas detected inside or near a building.	<ul style="list-style-type: none"> Core Plan, Section 3, Emergency Response Guides State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
Fire located near or directly involving a pipeline facility.	<ul style="list-style-type: none"> Core Plan, Section 3, Emergency Response Guides State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
Explosion occurring near or directly involving a pipeline facility.	<ul style="list-style-type: none"> Core Plan, Section 3, Emergency Response Guides State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
Natural disaster.	<ul style="list-style-type: none"> Core Plan, Section 3, Emergency Response Guides State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
The availability of personnel, equipment, tools, and materials, as needed at the scene of an emergency.	<ul style="list-style-type: none"> Core Plan, Section 5, Response Activities State Appendix Plan, Front Pocket Information State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
Actions directed toward protecting people first and then property.	<ul style="list-style-type: none"> Core Plan, Section 3, Emergency Response Guides Core Plan, Section 7, JSSP State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
Notifying appropriate fire, police, and other public officials of gas pipeline emergencies and coordinating with them both planned responses and actual responses during an emergency.	<ul style="list-style-type: none"> Core Plan, Section 2, Immediate Notification State Appendix Plan, Section 2, Notifications State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan
Actions required to be taken by a controller during an emergency in accordance with 49 CFR 192.631 Control Room Management	<ul style="list-style-type: none"> Core Plan, Section 2, Immediate Notification State Appendix Plan, Section 2, Notifications State Appendix-Specific Gas Plant or Gas Pipeline Emergency Plan Control Room Management Plan (CRMP) Program Manual CRM – 101 Roles and Responsibilities CRM – 114 Emergency Call Procedures

INITIAL RESPONSE ACTIVITIES

Initial response actions are those taken by local personnel immediately upon becoming aware of a hazardous incident, before the arrival of the Immediate Response Team.

It is important to note that these actions are intended only as guidelines. The appropriate response to a particular incident may vary depending on the nature and severity of the incident and on other factors that are not readily addressed.

COMPANY has also provided First Responder Guides by emergency type in this Section. The First Responders Guides are also intended to be utilized only as guidelines.

The first COMPANY person on the scene of the incident will act as Incident Commander. That person will continue to act as Incident Commander until relieved by higher supervision or until the formal Immediate Response Team is established.

The person acting as Incident Commander during the initial response period has the authority to take the steps necessary to control the situation.

Initial response steps that should be considered at the incident site to help ensure safety, control the spill, protect the public and property and minimize the severity of the incident include:

- Notification of Supervisor.
- Take appropriate personal protective measures.
- Verify the sounding of internal alarm systems at facilities and notification of the occupants of the facility regarding the hazard.
- Evacuate the immediate area.
- Restrict access to the spill and the adjacent area as the situation demands.
- Safely eliminate the source of the spill to the greatest extent possible (for example, notify Control Center).
- Safely isolate the source (for example, close block valves).
- Safely eliminate possible sources of ignition in the vicinity of the release.
- Provide Safe Recon to verify the character, source, amount and extent of release.
- Initiate steps to notify response personnel and resources (for example, notify Field Team Leader).
- Provide internal and external notifications.
- Assess possible hazards to human health and the environment.
- Verify the type of product and estimate the quantity released.
- Coordinate rescue and response actions as previously arranged with response personnel.
- Use appropriate testing and sampling equipment to determine potential safety hazards.
- Maintain control of the site until relieved by formal Immediate Response Team personnel.
- Direct initial containment procedures if feasible and safe to do so.

COMPANY CORE PLAN**SECTION 3
SPILL DETECTION / MITIGATION**

Continuing spill response actions beyond the above-described initial response will depend on the severity of the incident and expected duration of the response. If the incident cannot be contained and controlled with this initial response, ramping up of the various levels of response will need to proceed.

Regulations require that Company must be able to activate response resources to arrive on-scene within the times shown after the discovery of a worst case discharge or to mitigate the substantial threat of such a discharge.

	Tier 1	Tier 2	Tier 3
High volume area	6 hrs	30 hrs	54 hrs
All other areas	12 hrs	36 hrs	60 hrs

Refer to the Response Zone State Appendix for a list and emergency telephone numbers of contracted OSROs.

EMERGENCY RESPONSE INFORMATION**MSDS & Guide Information**

Pipelines transport petroleum that includes crude oil, gasoline (unleaded, middle unleaded and super unleaded), diesel fuel, jet fuel, natural gasoline, natural gas, LPG and chemicals.

Material Safety Data Sheets (MSDS's) and the Department of Transportation (DOT's) emergency response Guidebook contain emergency response information for the above listed petroleum products.

MSDS and DOT ERG information includes the name of the material, a description of the material, its physical and chemical characteristics, the health and safety hazards, suggested evacuation distances and initial spill-handling and firefighting methods. Some of the more common MSDSs pertinent to COMPANY's operations are listed in the MSDS Section 15 of this Core Plan. MSDS's can be accessed on the COMPANY website.

COMPANY CORE PLAN

SECTION 3
SPILL DETECTION / MITIGATION

INITIAL SPILL DETECTION/MITIGATION ACTIVITIES

Employee Receiving Report
Record Spill Report Take down all information regarding the reported spill using the Pipeline Incident Information Summary form found in Section 2 of this Core Plan.
Record Reporting Party's Contact Information Determine how you can reach the reporting party later.
Determine Spill Location
Determine Ownership of Spill Determine if COMPANY has (a) line(s) located on the map. If there are no COMPANY lines on that map, are there lines on adjacent maps that could cause oil or product to drain to that spill area?
Notify Pipeline Controller Notify the Control Center, as appropriate.
Report Possible Spill If the reported spill location indicates that it could be from a COMPANY pipeline, contact the Field Team Leader.
If not COMPANY, Advise Reporting Party If the location is not in an area where the spill could come from a COMPANY line, contact the reporting party and advise them. Report the contact and your actions to the Field Team Leader or the System Team Leader.
Enter Actions on Event Log Record all calls and other actions on the Incident Event Log.

COMPANY CORE PLAN

SECTION 3
SPILL DETECTION / MITIGATION

Incident Commander
Dispatch Investigators For Safe Reconnaissance Upon receipt of reported spill, assign first available employee(s) to the position of RECON and dispatch them to the site of the reported spill. If the reported site is remote from the pipeline route, dispatch a second employee to investigate along right of way. If the spill could be from more than one pipeline, dispatch additional Recon Persons.
Call Pipeline Control Center as Appropriate Call the Pipeline Control Center and alert them to the potential spill and suspected lines. Instruct the Pipeline Controller to shutdown the affected systems and notify all involved third parties to shut down, close valves and take appropriate action including the installation of lockout devices, locks and tags.
Contact Logistics Call the assigned Logistics person and advise him/her of the potential spill. Have Logistics contact a Team Member and designate him/her to be Safety Officer. If he/she is not at the Area Office, have him/her proceed there and begin preliminary contacts with the Immediate Response Team.
Proceed to Area Office If at another location, proceed to the Area Office, maintaining contact with investigators by radio.
Receive RECON's Reports Based on the Recon Reports, attempt to assess the following: <ul style="list-style-type: none"> • Magnitude of spill • Probability of a COMPANY line • Impacted area • Hazard to public • Need for traffic diversion • Need for evacuations
Close Block Valves Leave one Recon on the spill site. Dispatch other Recon(s) to close manually operated block valves on shutdown pipelines.
Determine Location of the Incident Command Post (ICP) Based on location, magnitude and other data, determine an assembly point for the Immediate Response Team. This can be at the Area Office or at a safe location near the spill site.
Authorize Mobilization of Spill Equipment Trailer Authorize Logistics to mobilize the Mobile ICP and/or Spill Equipment Trailer and have them transported to the ICP location by responders.
Authorize Mobilization of Immediate Response Team Authorize Logistics or the Pipeline Controller to notify the Immediate Response Team and direct them to report to the ICP (or to the Area Office) as required. Specify number of Team Members to mobilize.
Assess Agency Assistance Needs Authorize Logistics to contact applicable agencies and request assistance. Advise agencies of ICP location.
Proceed to ICP Travel to ICP location. Keep in communication by radio.

SECTION 3

COMPANY CORE PLAN

SPILL DETECTION / MITIGATION

Assign ICS Positions to Responding Team Members

Brief responders and assign Incident Command System positions to the responding Immediate Response Team Members as they arrive at the ICP. Assign the vacant positions to make up the Immediate Response Team:

- LOGISTICS
- SAFETY
- DEPUTY INCIDENT COMMANDER
- OPERATIONS
- EVACUATION GROUP LEADER
- [Assign additional positions as required.]

Direct Deputy Incident Commander to Determine Drainage Routes

Direct the Deputy Incident Commander to study drainage maps and, if necessary, enlist the aid of Flood Control District to determine the route of the drainage, possible interceptor points and the eventual destination of the drainage route into an open channel, as well as recommend locations to attempt interdiction of the flow.

Notify Management

Call the Field Team Leader or his on-call duty Manager. Report the following:

- Describe the incident
- Estimate the magnitude of the spill
- Describe the impact to the public
- Inform if traffic has been diverted
- Inform of evacuation plans, if any
- Recommend Sustained Response
- Inform of team mobilization if applicable

Authorize Sustained Response Team Mobilization

Authorize Logistics to initiate procedures to notify and mobilize the Sustained Response Team, if the situation warrants.

Authorize Agency Notification

Authorize Logistics to notify those agencies required by regulation. Authorize courtesy notifications.

Review ICS Team Assignments

Determine that all positions have been filled and all members have been briefed and are carrying out their assignments. Consider reassignment for specialties.

Review Status

Confirm all required measures are in progress. Review resources employed and determine adequacy to properly handle:

- | | |
|--------------------------|-------------------------------|
| • Traffic Diversion | • Agency Coordination |
| • Evacuation | • Public Relations |
| • Containment | • Media Involvement |
| • Diversion | • Environmental Concerns |
| • Spill Stoppage | • Sensitive Resource Concerns |
| • Permanent Repair | • Prevention of Escalation |
| • Team Health and Safety | • Other specific concerns |

COMPANY CORE PLAN

SECTION 3
SPILL DETECTION / MITIGATION**Authorize Additional Resources**

Determine if additional resources can be effectively used to reduce impacts or hazards or duration of critical phases of the incident.

Review Planning Functions

Contact Logistics and review planning for:

- Contractor deployment
- Resource development
- Equipment and Material needs
- Personnel duty hours and relief
- Specialized or expert assistance
- Deployment of Mobile Command trailer
- Food, beverage service

Manage the Incident**Enter Actions on Event Log**

Record all calls and other actions on the Incident Event Log.

COMPANY CORE PLAN

SECTION 3
SPILL DETECTION / MITIGATION

Deputy Incident Commander
Access Drainage Drawings Locate the spill and also locate the point it enters the drain. Plot its probable course. Locate manholes to begin damming and collecting the oil. Obtain assistance from the Flood Control District. Report these locations to the Incident Commander.
Determine Destination From the drawings (and with assistance from the Flood Control District) determine the course and the point the oil will exit into open drainage canals. Report this location to the Incident Commander.
Determine Possible Containment Points Taking into account the accessibility, determine possible locations for containment and collection. Report these locations to the Incident Commander.
Determine Secondary Boom Locations Determine possible secondary containment locations to use if oil or product gets past the primary containment location. Report these locations to the Incident Commander.
Determine Strategic Boom Locations Determine the route of flow or drainage. Determine locations where containment booms can be deployed to prevent the oil from reaching sensitive areas or the sea. Report these locations to the Incident Commander.

SECTION 3**COMPANY CORE PLAN****SPILL DETECTION / MITIGATION**

Safety
Appointed by and reports to the Incident Commander.
Ensure all safety procedures are adhered to at the emergency site.
Report all observations of importance to the Incident Commander
The Safety person is the primary safety eyes and ears of the Incident Commander.
Liaison with public agency Safety Officer upon his/her arrival and transmit all pertinent information.
Ensure that individuals directly involved with the leak repair, including the backhoe operator, are wearing Nomex or equivalent fire resistant clothing.
Ensure appropriate personal protective equipment and clothing, such as fresh air breathing apparatus, half mask respirators, welding hoods, etc., are on site and available as needed.
Ensure that the site-specific safety and health plan is administered on site.
Ensure first aid and burn kits are readily available.
Establish a general Hazard Zone around the area of the leak using a gas detection instrument (any location exceeding 10% LFL).
Install portable windsocks or streamers to assist in monitoring for possible changes in wind direction.
Ensure that an adequate number of fire extinguishers are available at the emergency site.
Ensure proper trenching and shoring safety procedures are adhered to during excavation operations.
Ensure that all motorized and other equipment used for leak repair is placed upwind out of the hazard zone.

ENTERING AN AREA WHERE LEL IS = OR > 10% OF LEL

To enter an atmosphere that is $\geq 10\%$ LEL, you must address:

- Safety of yourself and of others.
- Complete a detailed site Hazard Analysis utilizing the JSSP.
- Determine the right equipment and PPE to mitigate the risk to the employees or contractors entering the area.
- Write out the plan and discuss in detail.
- Gain approval from the Team Leader, HES Safety Specialist and the Profit Center Manager prior to entry (verbal is permissible) and document this approval.
- Execute the written plan.

For all Emergency Response situations, the Field Team must implement the ICS (Incident Command System) and review the Emergency Response Guide First Responder under Section 3 of the Core Plan for the applicable situation.

SECTION 3

COMPANY CORE PLAN

SPILL DETECTION / MITIGATION

Recon
Travel to the Reported Leak Site Upon notification, travel to the reported leak site by company vehicle equipped with radio.
Reconnoiter the Situation Upon arrival at the site, confirm the leak is on a right-of-way route with a COMPANY pipeline, or could have come from a COMPANY line. Identify the type of material spilled. Confirm that the material could be from a COMPANY pipeline.
Gather Information Determine the following: <ul style="list-style-type: none"> • Material spilled • Magnitude of the spill • Probability of being from a COMPANY pipeline • Impacted area • Hazard to the Public • Need for traffic diversion • Need evacuation
Report to Incident Commander Report the information gathered to the Incident Commander by radio or telephone.
Remain on the Scene Remain on the scene until relieved. Divert traffic from the spill location until police or fire department take over. Warn residents or businesses to evacuate if required.
Update Status Provide periodic updates to the Incident Commander, advising him/her of any change in reported information. Answer all inquiries.
Standby for IRT Arrival Remain at the incident scene until the IRT arrives. Direct members to location by radio if required.

COMPANY CORE PLAN

SECTION 3
SPILL DETECTION / MITIGATION

Logistics
Assign Safety Position If not already assigned, contact and assign the position of Safety to an IRT member.
Proceed to ICP Travel to the ICP and assume duties.
Alert Team Members Upon arrival, advise the Incident Commander that you are at the ICP. Contact the Pipeline Controller to ensure he/she has been contacting IRT members and determine status. Tell him/her you are assuming that responsibility. Continue calling or contacting the members of the Immediate Response Team. Inform them of a possible need to respond.
Mobilize the Immediate Response Team Upon authorization, cease the alerting activities and start the Immediate Response Team notification procedures. Provide the following information: <ul style="list-style-type: none"> • Description of the incident • Magnitude of the incident • Where to report • Name of the Incident Commander • Cautions to be observed • Any special routing required
Keep Mobilization Status Obtain from each Team Member: <ul style="list-style-type: none"> • Ability to respond • Estimated reporting time • Confirmation of arrival • Log all attempts to notify Team Members
Report Progress Periodically report to the Incident Commander: <ul style="list-style-type: none"> • Number of contacts attempted • Number of contacts made • Number of Team Members who have reported for duty and if asked: • Names of responders • Names of no contact • Names of Team Members unable to respond
Continued Attempts Report the list of completed notifications and the status of responding Team Members. Repeat notification attempts for non-contacted Team Members, if needed.
Notify Responding Agencies Notify local agencies (police, fire, etc.) that will respond to provide active assistance.
Notify Sustained Response Team Upon authorization, call the Sustained Response Team Communicator and direct the activation of the Sustained Response Team.

COMPANY CORE PLAN

SECTION 3
SPILL DETECTION / MITIGATION**Notify Agencies (Mandatory)**

Notify the applicable agencies listed in Section 2 of the State Appendix. Log all attempts at notification.

Maintaining Communications

Continuously monitor radio networks and telephones. Relay inquiries and directions from Team Members. Provide telephone numbers as requested. Receive and forward messages and reports.

Enter Actions on Event Log

Record all calls and other actions.

COMPANY CORE PLAN

SECTION 3
SPILL DETECTION / MITIGATION

Pipeline Controller
Shutdown Pipeline Carry out Shutdown Procedures on lines suspected as leak source. Close valves as directed by procedures.
Carry Out Notification Procedure Follow procedures for notification located in Section 2 of this Core Plan and the State Appendix. Complete "Immediate Notification of HES Incident" Form.
Alert Immediate Response Team Contact the Immediate Response Team Members and advise them that an emergency may be in progress. Locate these telephone numbers in the Front Pocket Section of the State Appendix.
Mobilize Immediate Response Team Upon authorization, cease alerting activities and begin notifying the Team Members to report to the ICP or Area Offices. Locate these telephone numbers in the Front Pocket Section of the State Appendix.
Turn Mobilization Over to Incident Commander Turn mobilization duties over to the Incident Commander or person designated by the Incident Commander when he/she arrives at the ICP. Give him/her a detailed status report: <ul style="list-style-type: none"> • Number of contacts attempted • Number of contacts made • Number of contacts responding • Names of responders • Names of no contact • Names of those unable to respond
Maintain Communications Monitor radio and telephone to provide assistance to the Incident Commander as required.
Enter Actions on Event Log Record all actions on the Incident Event Log.

EMERGENCY RESPONSE GUIDES - FIRST RESPONDERS

The following Emergency Response Guide Guides are contained in this section:

- Piping Rupture
- Oil Spill
- Tank Failure
- Tank Overflow
- Unidentified Oil Spill
- Leak Involving Shoreline Considerations
- Leak Involving Drains/Waterways
- Gas Leak
- Fire or Explosion
- Evacuation
- Storm or Flood
- Wildfire
- Earthquake
- Vessel or Barge Spill
- Non-Loading Spill Vessel/Barge
- Gas Leak in or Near a Building

Emergency Response Guide First Responder

Piping Rupture

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

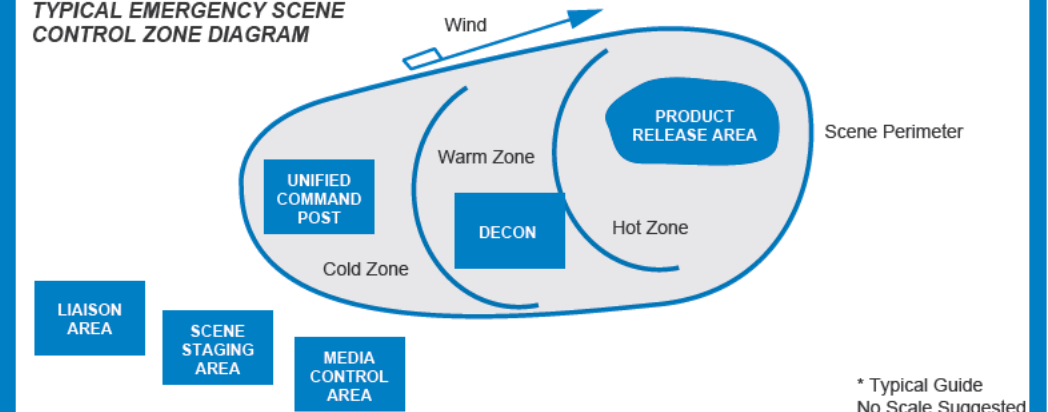
- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



ERP QUICK REFERENCE TABLE OF CONTENTS

Company Core Plan

Sec 1 Information Summary	Sec 11 Communications
Sec 2 Immediate Notifications	Sec 12 Training & Drills
Sec 3 Spill Detection/Mitigation	Sec 13 Plan Review & Updates
Sec 4 OSRO Information	Sec 14 Public Relations
Sec 5 Response Activities	Sec 15 Documentation
Sec 6 ICS	Sec 16 MSDS
Sec 7 JSSP	Sec 17 Glossary
Sec 8 Cleanup Procedures	Sec 18 ER Spill EX-HES 706
Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Shut down and isolate flow
- Eliminate sources of ignition
- Contain ahead of spill by booming or damming
- Protect storm drains or water intake areas ahead of spill
- Cleanup procedures Section 8 of this Core Plan
- All equipment used when handling product must be grounded
- Site sensitive strategies in State Appendix Plan

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Oil Spill

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

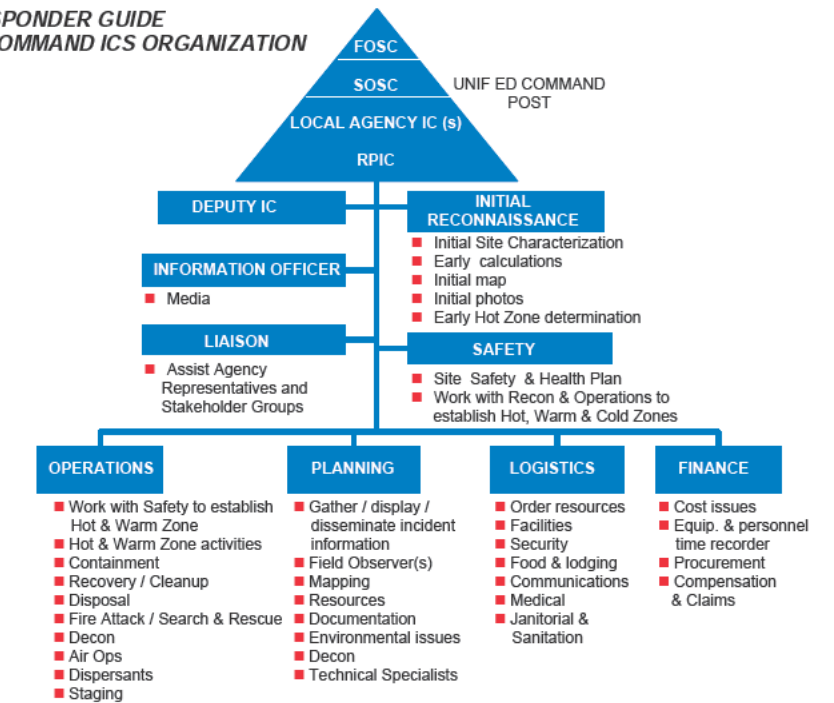
- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

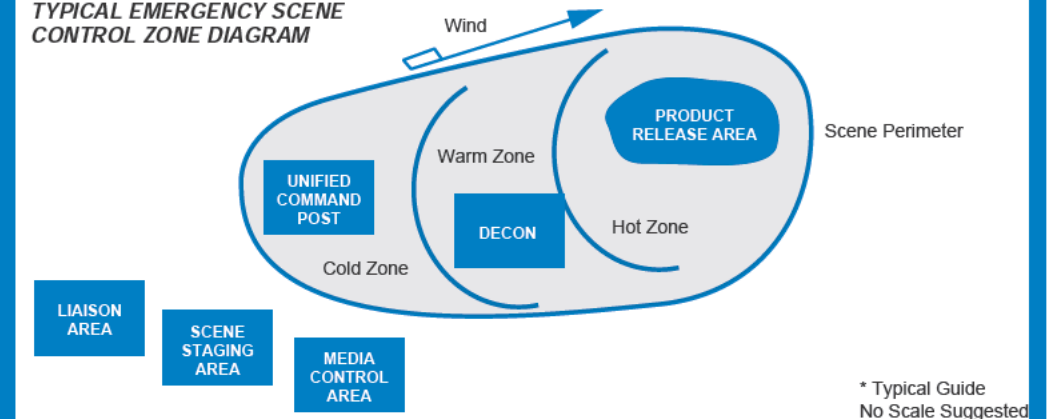
- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



ERP QUICK REFERENCE TABLE OF CONTENTS

Company Core Plan

Sec 1 Information Summary	Sec 11 Communications
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Sec 7 JSSP	Sec 17 Glossary
Sec 8 Cleanup Procedures	Sec 18 ER Spill EX-HES 706
Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Shut down and isolate flow
- Eliminate sources of ignition
- Contain ahead of spill by booming or damming
- Protect storm drains or water intake areas ahead of spill
- Cleanup procedures Section 8 of this Core Plan
- All equipment used when handling product must be grounded
- Site sensitive strategies in State Appendix Plan

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- CS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Tank Failure

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

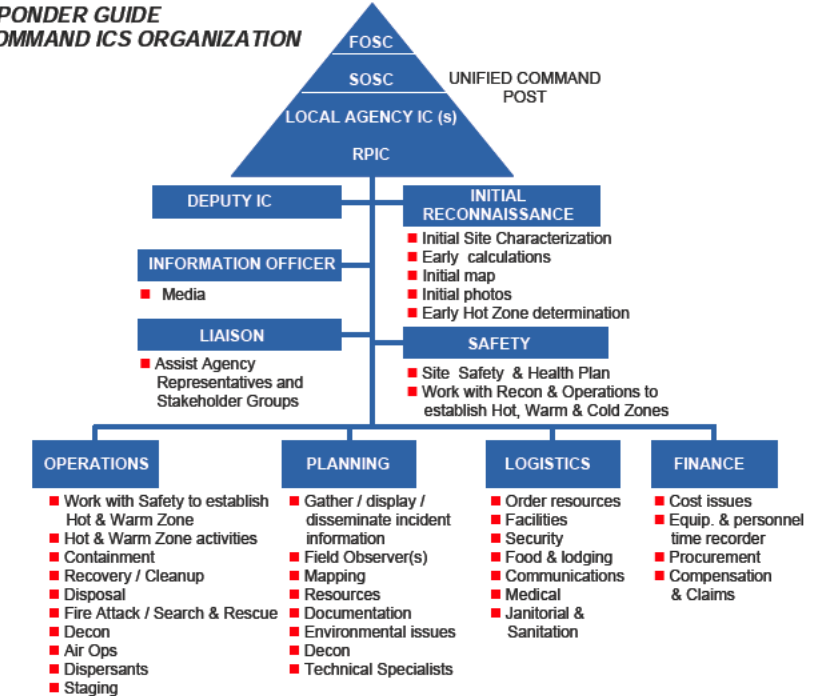
- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

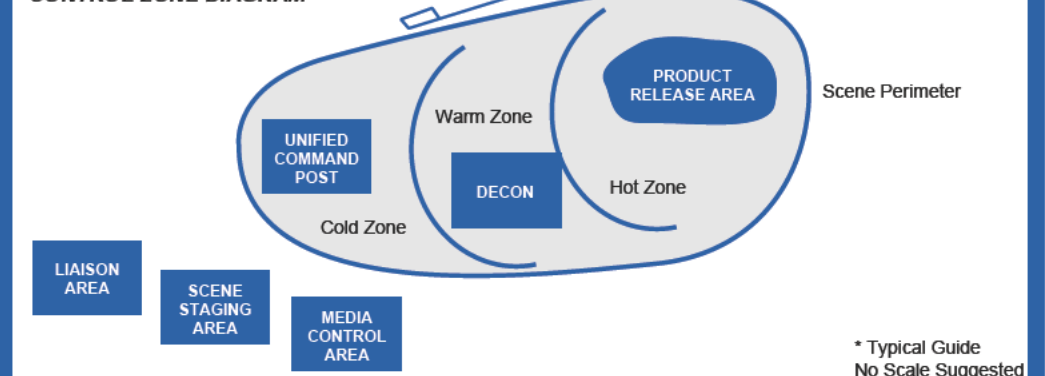
- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



ERP QUICK REFERENCE TABLE OF CONTENTS

Company Core Plan

Sec 1 Information Summary	Sec 11 Communications
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Sec 7 JSSP	Sec 17 Glossary
Sec 8 Cleanup Procedures	Sec 18 ER Spill EX-HES 706
Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Shut down and isolate flow
- Eliminate sources of ignition
- Contain ahead of spill by booming or damming
- Protect storm drains or water intake areas ahead of spill
- Cleanup procedures Section 8 of this Core Plan
- All equipment used when handling product must be grounded
- Site sensitive strategies in State Appendix Plan

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Tank Overflow

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

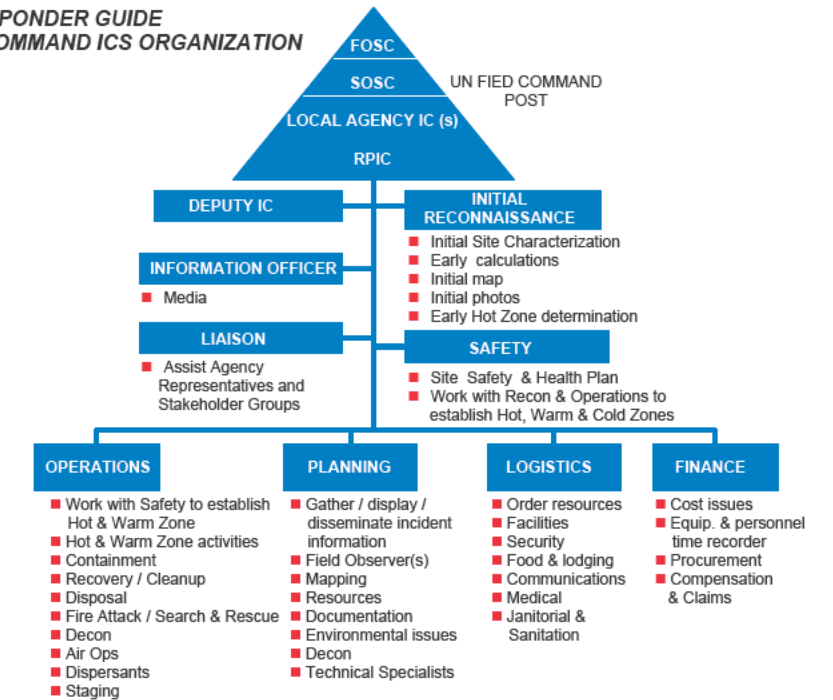
- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

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DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

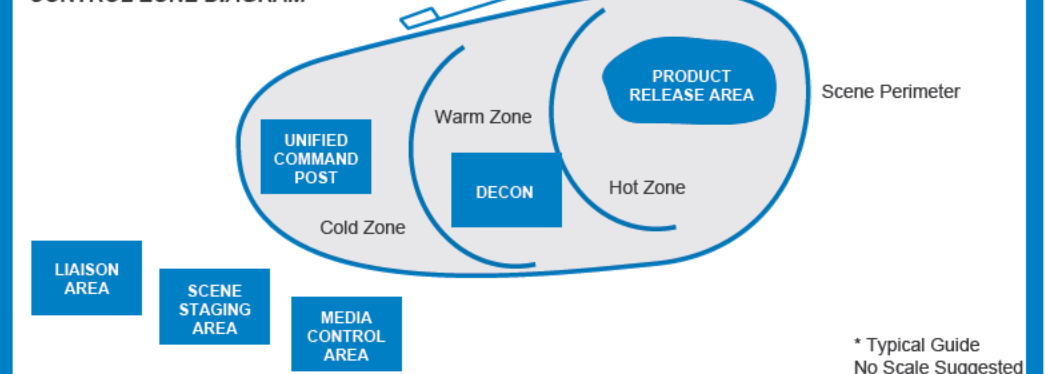
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- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
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TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



ERP QUICK REFERENCE TABLE OF CONTENTS

Company Core Plan

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Sec 4	OSRO Information	Sec 14	Public Relations
Sec 5	Response Activities	Sec 15	Documentation
Sec 6	ICS	Sec 16	MSDS
Sec 7	JSSP	Sec 17	Glossary
Sec 8	Cleanup Procedures	Sec 18	ER Spill EX-HES 706
Sec 9	Estimating Spill Volumes	Sec 19	Functional & WW Teams
Sec 10	Waste Management	Sec 20	Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Shut down and isolate flow
- Eliminate sources of ignition
- Contain ahead of spill by booming or damming
- Protect storm drains or water intake areas ahead of spill
- Cleanup procedures Section 8 of this Core Plan
- All equipment used when handling product must be grounded
- Vapor suppressing foam may reduce vapors

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Unidentified Spill

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

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COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
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- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

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FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
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PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
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DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
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- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

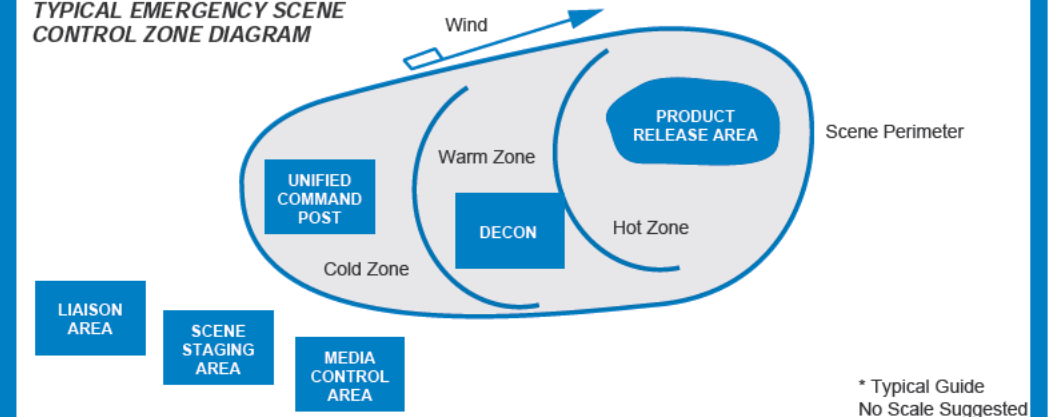
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DOCUMENTATION

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TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



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Sec 8 Cleanup Procedures	Sec 18 ER Spill EX-HES 706
Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Contact other pipelines or other possible sources in the area until spill can be identified
- Eliminate sources of ignition
- Contain ahead of spill by booming or damming
- Protect storm drains or water intake areas ahead of spill
- Cleanup procedures Section 8 of this Core Plan
- All equipment used when handling product must be grounded
- Site sensitive strategies in State Appendix Plan

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
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DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Leak Involving Shoreline Considerations

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
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COMMAND MANAGEMENT

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- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

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FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

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DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

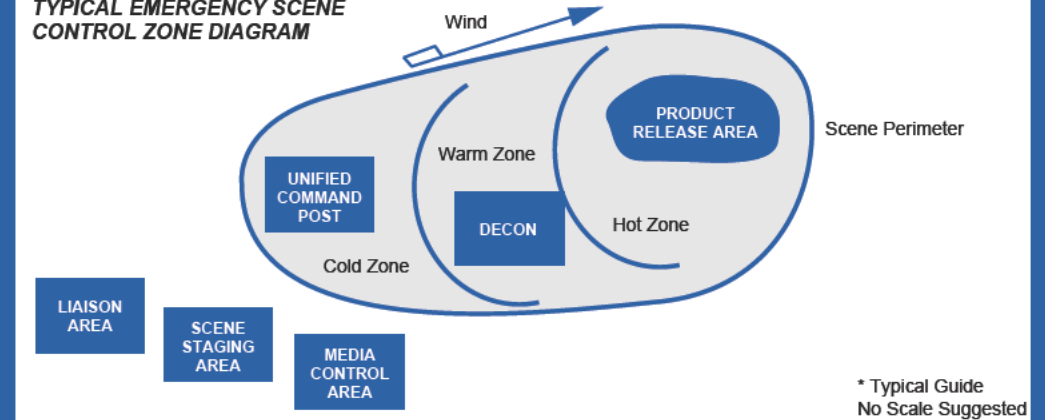
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TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



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Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Deploy containment or diversion boom as needed
- Eliminate sources of ignition
- All equipment used when handling product must be grounded
- Site sensitive strategies in State Appendix Plan

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
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DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

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LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Leak Involving Drains / Waterways

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
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NOTIFICATIONS

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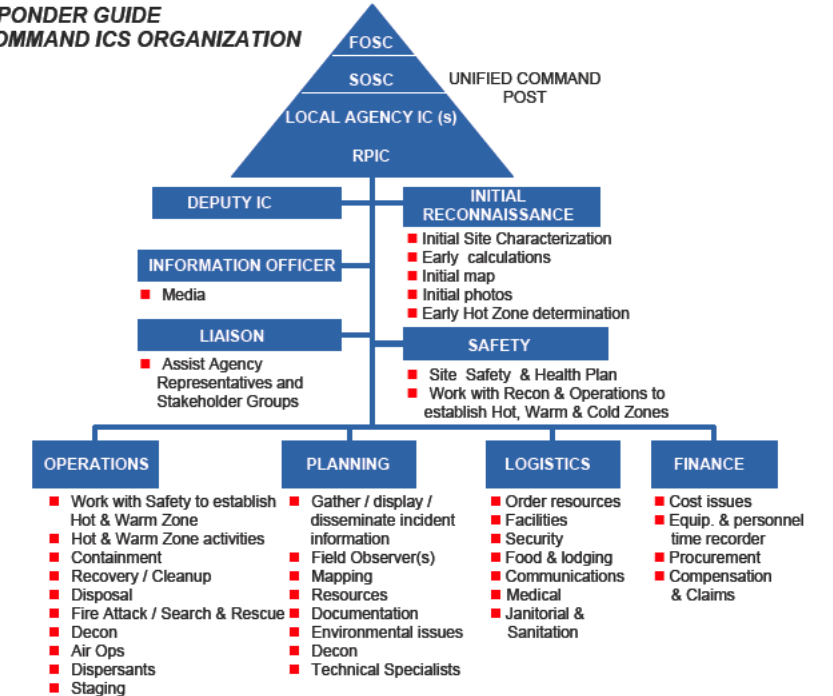
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ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
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FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

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CONTAINMENT & CONTROL

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PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
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DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
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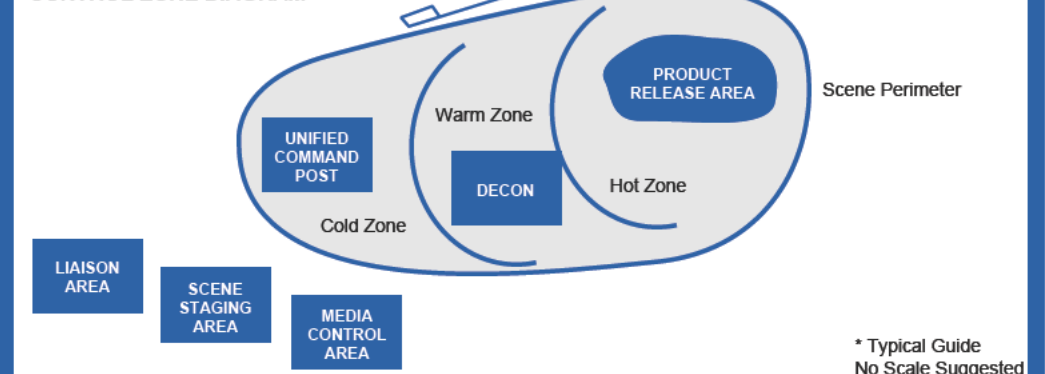
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TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



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Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Shut down and isolate flow
- Eliminate sources of ignition
- Contact local public works officials to assist with local storm drain maps
- Contain ahead of spill by booming or damming
- Protect storm drains or water intake areas ahead of spill
- Cleanup procedures Section 8 of this Core Plan
- All equipment used when handling product must be grounded
- Site sensitive strategies in State Appendix Plan

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
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DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

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Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Gas Leak

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
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COMMAND MANAGEMENT

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IDENTIFICATION AND ASSESSMENT

- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
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ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
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FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team

DISPOSAL

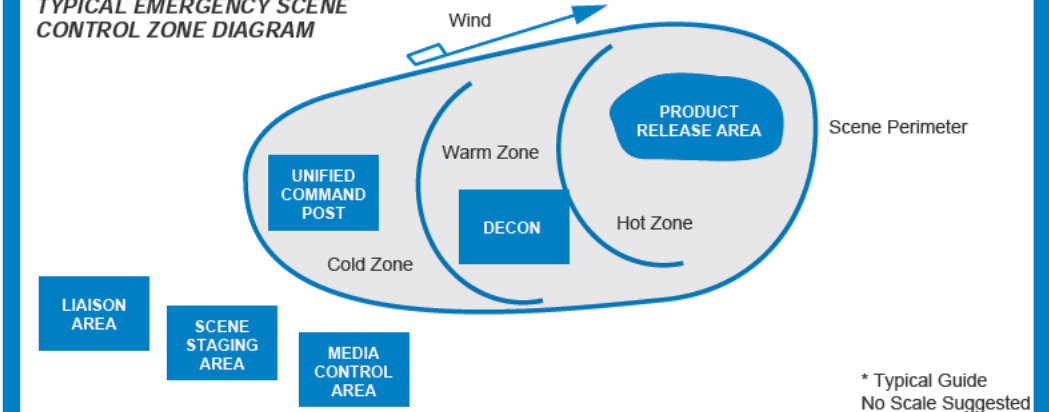
- Minimum disposal issues

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



ERP QUICK REFERENCE TABLE OF CONTENTS

Company Core Plan

Sec 1 Information Summary	Sec 11 Communications
Sec 2 Immediate Notifications	Sec 12 Training & Drills
Sec 3 Spill Detection/Mitigation	Sec 13 Plan Review & Updates
Sec 4 OSRO Information	Sec 14 Public Relations
Sec 5 Response Activities	Sec 15 Documentation
Sec 6 ICS	Sec 16 MSDS
Sec 7 JSSP	Sec 17 Glossary
Sec 8 Cleanup Procedures	Sec 18 ER Spill EX-HES 706
Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Shut down and isolate flow
- Evacuate the area
- Eliminate sources of ignition
- All equipment used when handling product must be grounded
- Water spray may reduce vapors or divert vapor cloud
- If exposed make sure exposed clothing is removed and decon occurs

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Fire or Explosion

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

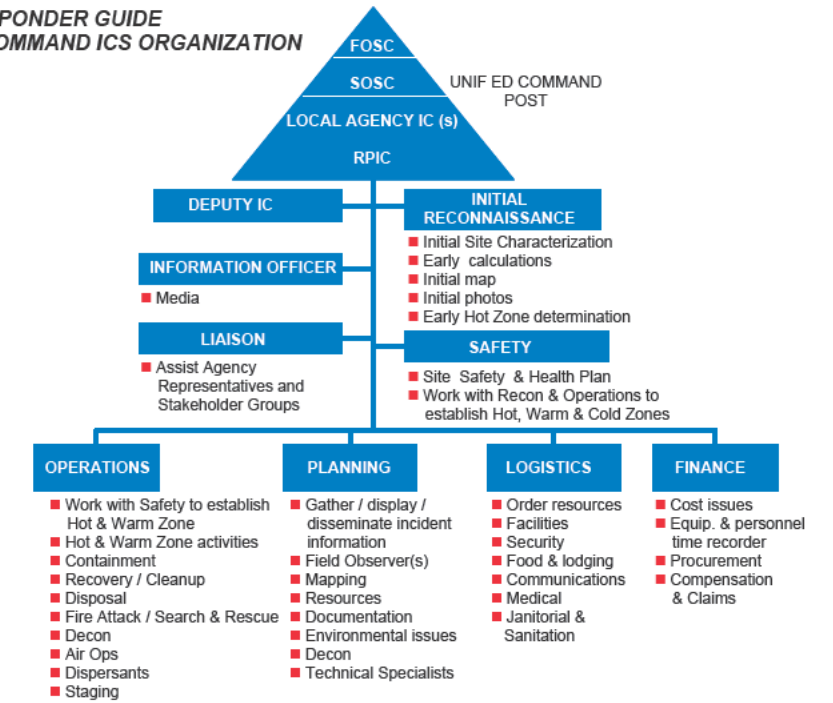
- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

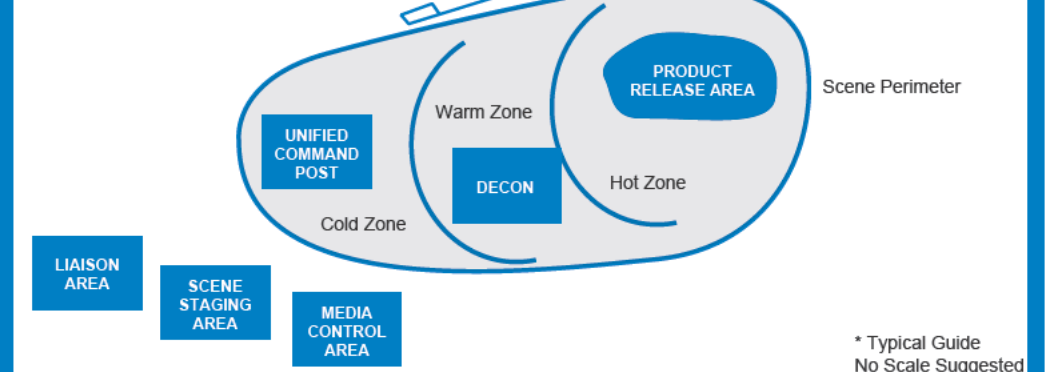
- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



ERP QUICK REFERENCE TABLE OF CONTENTS

Company Core Plan

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Sec 8 Cleanup Procedures	Sec 18 ER Spill EX-HES 706
Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Shut down and isolate fuel source if safe to do so
- Stay in cold zone
- Perform safe recon to determine extent of damage or injuries
- If spill or leak occurs as a result of fire or explosion follow initial response guides in this section

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Evacuation

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

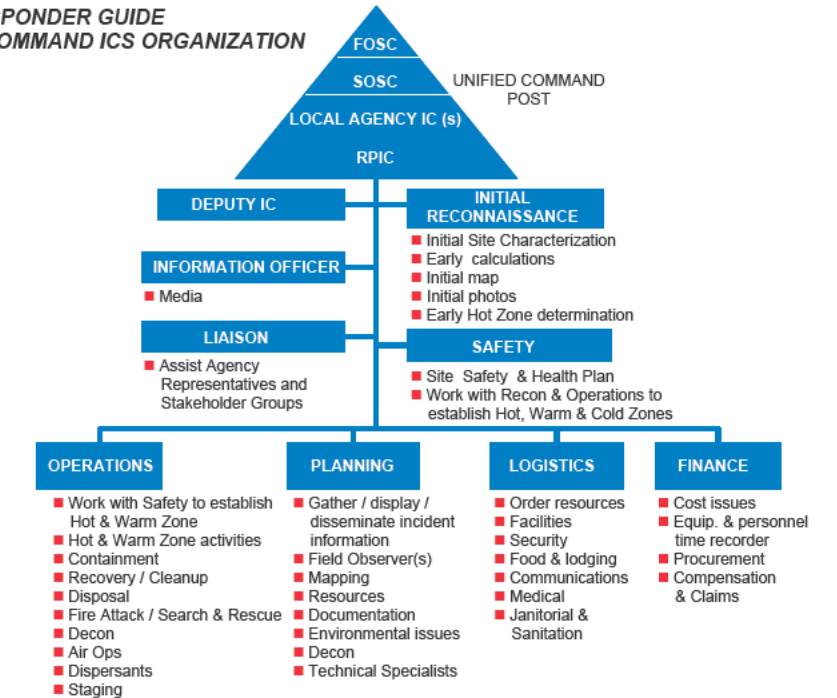
- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE

CONTAINMENT & CONTROL

- Containment & control strategies should be developed as soon as possible within the Unified Command process
- Operations Section Chief oversees evacuation, containment & control

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on the area

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

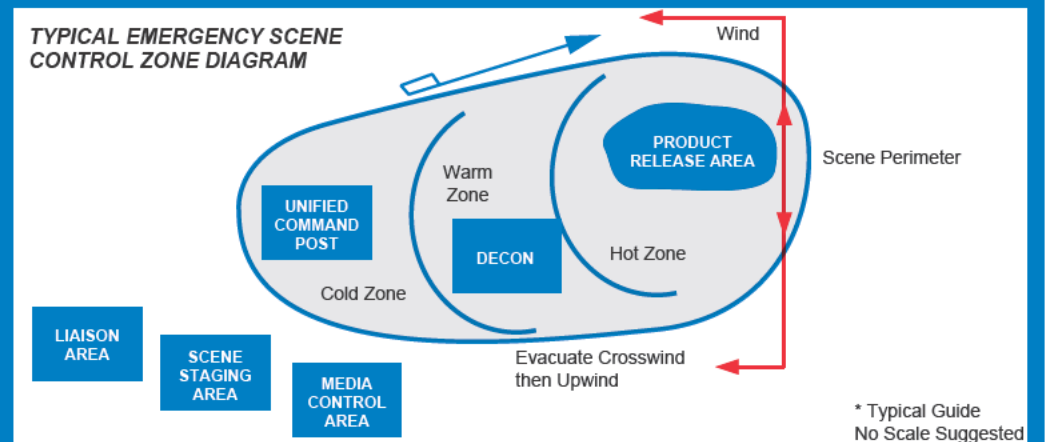
- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



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Sec 8 Cleanup Procedures	Sec 18 ER Spill EX-HES 706
Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- If in vapor area evacuate crosswind and then upwind
- Assign Liaison and Logistics to assist evacuees as soon as possible
- Eliminate sources of ignition

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Storm or Flood

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Command Post in a safe location
- Establish a Staging Area in a safe location
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

- Continue to evaluate the potential impact and hazard area and adjust accordingly

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on area
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

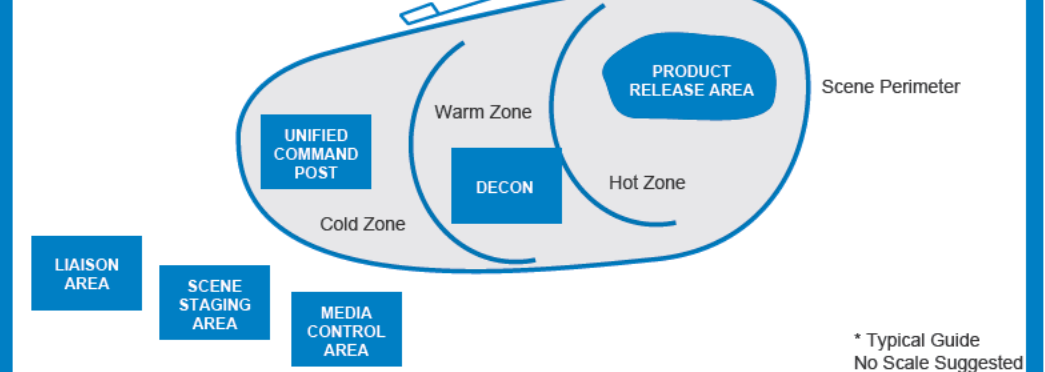
- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



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Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Implement special regional hurricane or storm Plan
- See response zone State Appendix for Hurricane Plan
- Evacuate immediate and potential unsafe areas
- Consult emergency response guides in this section should leaks, spills, or fires occur

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Wildfire

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the potential hazard area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume the role of Incident Commander for shut down and evacuation purposes if necessary
- Make an announcement to all on the scene that you have assumed Command
- Establish Command Post in the cold zone as necessary
- Establish a Staging Area in the cold zone as necessary
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan for Chevron activities

IDENTIFICATION AND ASSESSMENT

- Continue to evaluate the hazard area
- Continue to monitor evacuation activities
- Safely determine extent of impact on Company resources

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

NA

CONTAINMENT & CONTROL

- Assist public agencies with information as necessary regarding Company properties

PROTECTIVE ACTIONS

- Perform emergency shut down procedures if necessary

3

DECONTAMINATION / CLEANUP

NA

DISPOSAL

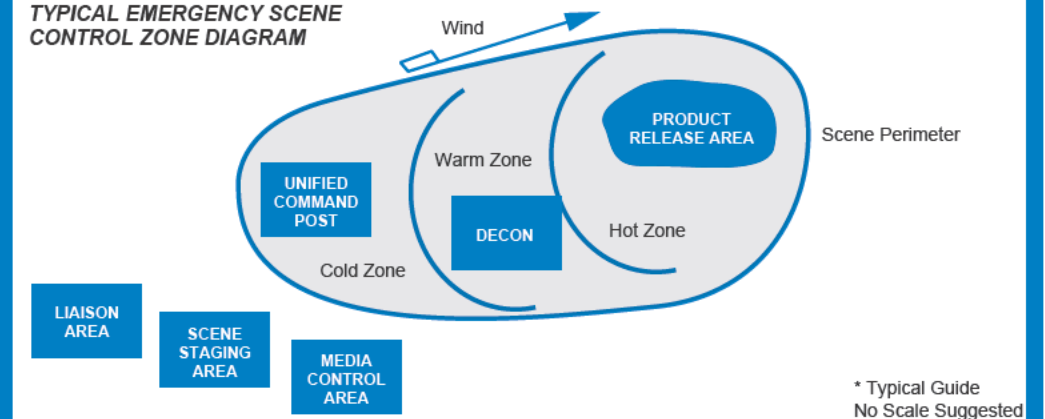
NA

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



ERP QUICK REFERENCE TABLE OF CONTENTS

Company Core Plan

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Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Evacuate the area if potential hazard exists
- Monitor situation
- Perform emergency shut down procedures as necessary
- If spill or leak occurs as a result of fire follow initial response guides in this Section as applicable

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Earthquake

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post away from the potential hazard area
- Establish a Unified Staging Area away from the potential hazard area
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on area

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

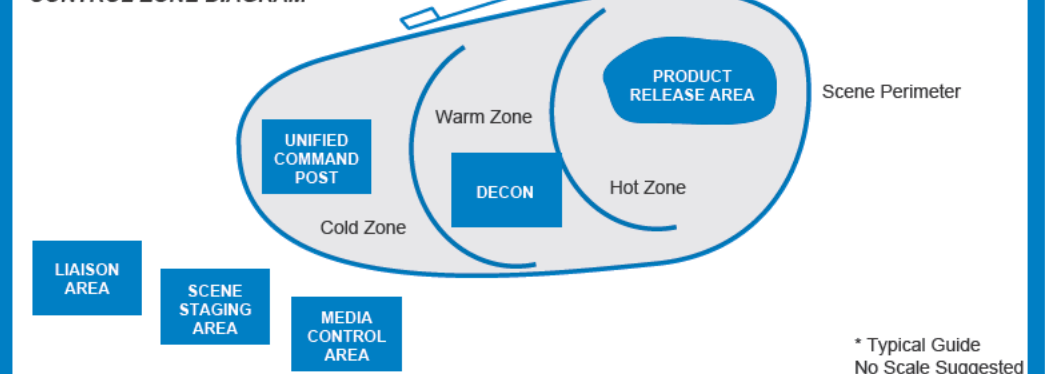
- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



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Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Follow emergency guides in this Section if spill, leak, fire or other emergency occurs as a result of quake
- Stay away from potential safety hazards
- Eliminate sources of ignition
- Provide initial and ongoing damage assessment information

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Vessel or Barge Spill

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact the local Coast Guard
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

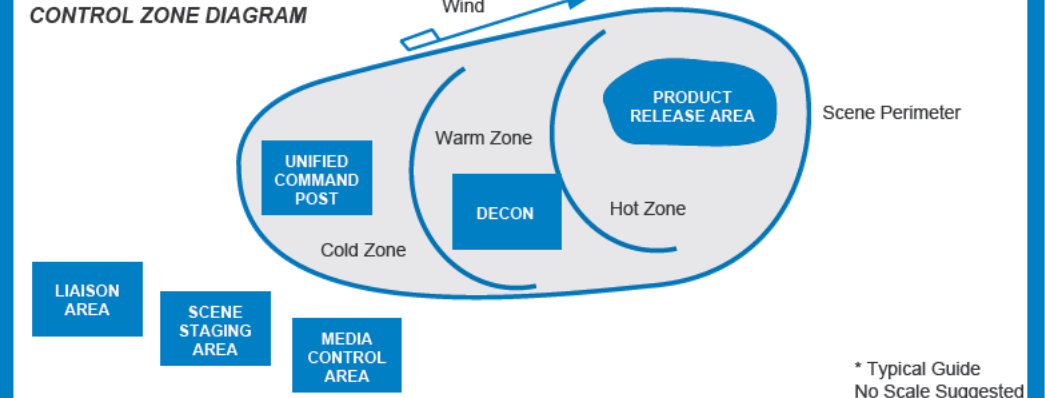
DISPOSAL

- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
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Natural Gasoline	128
Diesel	128
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Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Deploy containment boom
- Cleanup procedures Section 8 of this Core Plan
- Eliminate sources of ignition
- All equipment used when handling product must be grounded
- Site sensitive strategies in State Appendix Plan



Chevron Pipe Line Company

Emergency Response Guide First Responder

Non Loading Spill Vessel / Barge

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

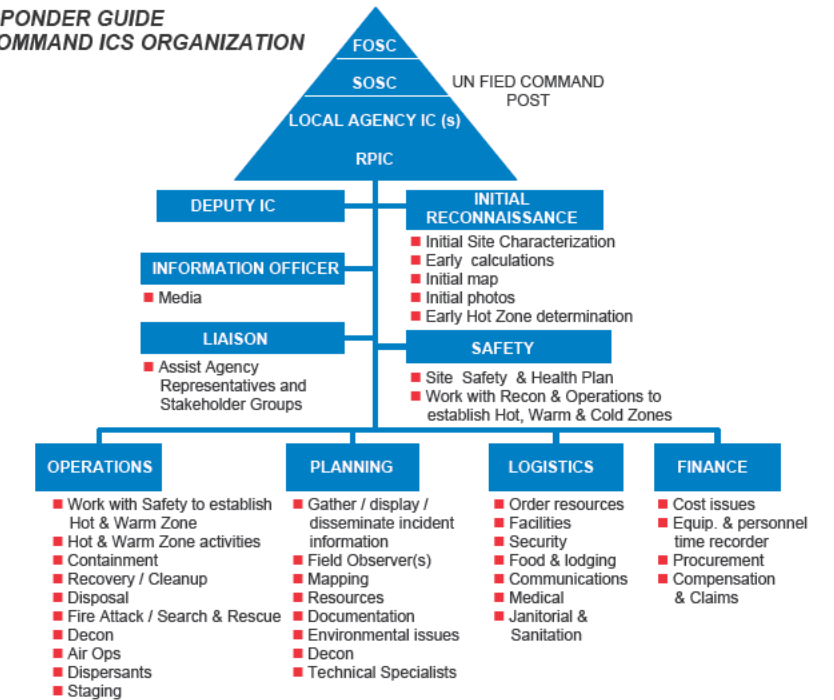
- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of impact on water, air, soil, plant life & wildlife

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team
- Clean up strategies should be part of the Unified IAP
- Decon runoff needs to be contained and properly disposed of

DISPOSAL

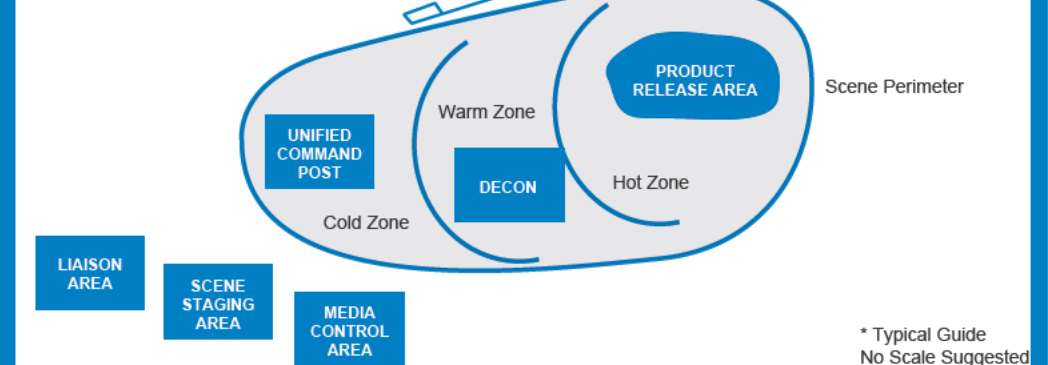
- Ensure early notification of HES Waste SME's
- Consult Waste Management Section of this Core Plan
- Consult State Appendix Plan for specific State requirements

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



ERP QUICK REFERENCE TABLE OF CONTENTS

Company Core Plan

Sec 1 Information Summary	Sec 11 Communications
Sec 2 Immediate Notifications	Sec 12 Training & Drills
Sec 3 Spill Detection/Mitigation	Sec 13 Plan Review & Updates
Sec 4 OSRO Information	Sec 14 Public Relations
Sec 5 Response Activities	Sec 15 Documentation
Sec 6 ICS	Sec 16 MSDS
Sec 7 JSSP	Sec 17 Glossary
Sec 8 Cleanup Procedures	Sec 18 ER Spill EX-HES 706
Sec 9 Estimating Spill Volumes	Sec 19 Functional & WW Teams
Sec 10 Waste Management	Sec 20 Gas Pipelines & Facilities

GENERAL PROTECTION STRATEGIES

- Deploy containment boom
- Eliminate sources of ignition
- Cleanup procedures Section 8 of this Core Plan
- All equipment used when handling product must be grounded
- Site sensitive strategies in State Appendix Plan

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

Emergency Response Guide First Responder

Gas Leak In Or Near A Building

SAFETY

- Your safety first and then the safety of others
- Start a JSSP as soon as possible
- Stay out of the hazard area
- If performing Recon approach up wind, up hill, up stream
- Determine the immediate hot zone

ISOLATE AND DENY ENTRY

- Evacuate the immediate area
- Deny entry to the immediate area
- Ask others to help deny entry into the area
- If on the scene, ask police & fire resources to help deny entry into immediate area

NOTIFICATIONS

- Contact your Supervisor
- Contact Customer Service Center
- Dial 911 if ambulance, police or fire dept. assistance is needed
- Contact local OSRO
- Follow the Notifications Flowchart found in this Plan

1

COMMAND MANAGEMENT

- Assume role of Incident Commander/utilize USCG IMH
- Make an announcement to all on the scene that you have assumed Command
- Establish a Unified Command Post up wind, up hill and up stream of the incident in the cold zone
- Establish a Unified Staging Area up wind, up hill and up stream of the incident in the cold zone
- Begin assigning ICS positions as necessary
- Meet, greet & brief responding Agencies as they arrive at the Unified Command Post
- Ensure Safety Officer begins and completes a Job Site Safety Plan

IDENTIFICATION AND ASSESSMENT

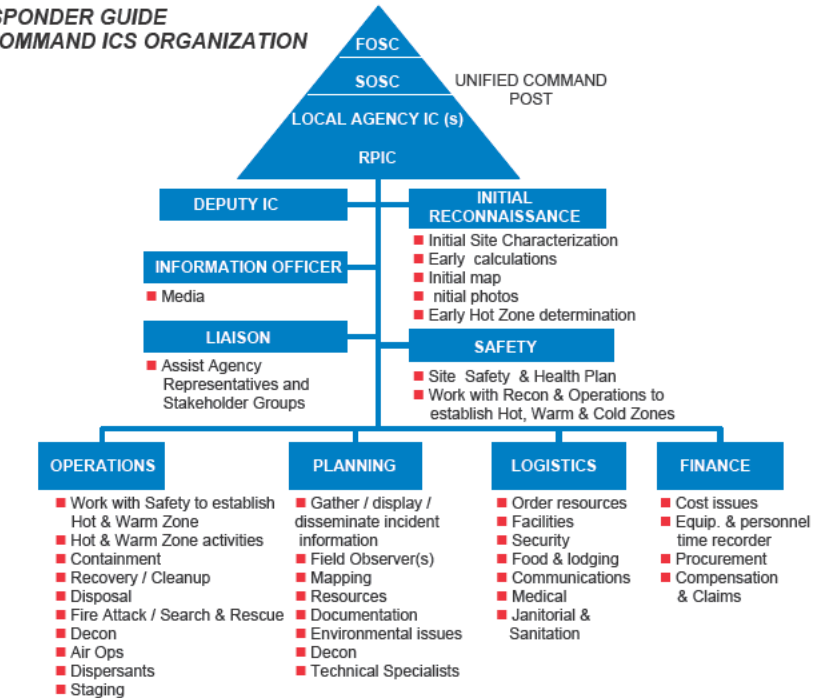
- Continue to evaluate the hot zone and adjust accordingly
- Continue to monitor evacuation activities
- Ensure safe Recon to determine extent of potential impact on the area

ACTION PLANNING

- Create an ICS 201 to serve as the de facto Incident Action Plan for initial period
- Create a Unified "Next" period Incident Action Plan

2

FIRST RESPONDER GUIDE UNIFIED COMMAND ICS ORGANIZATION



PROTECTIVE EQUIPMENT

- Ensure proper levels of PPE
- Ensure PPE is in line with Job Site Safety Plan

CONTAINMENT & CONTROL

- Containment & control strategies should be developed within the Unified Command process
- Operations Section Chief oversees containment & control tactical deployment
- OSRO's work under the Operations Section and should not freelance

PROTECTIVE ACTIONS

- Ensure safe Recon to assess impact on water intakes, adjoining properties, public recreation sites & sensitive sites
- Protective action tactical deployment should be part of the Unified Incident Action Plan

3

DECONTAMINATION / CLEANUP

- Decon activities take place under the ICS Ops Section
- Decon capabilities in place before entering Hot Zone
- Ensure proper PPE for Decon Team

DISPOSAL

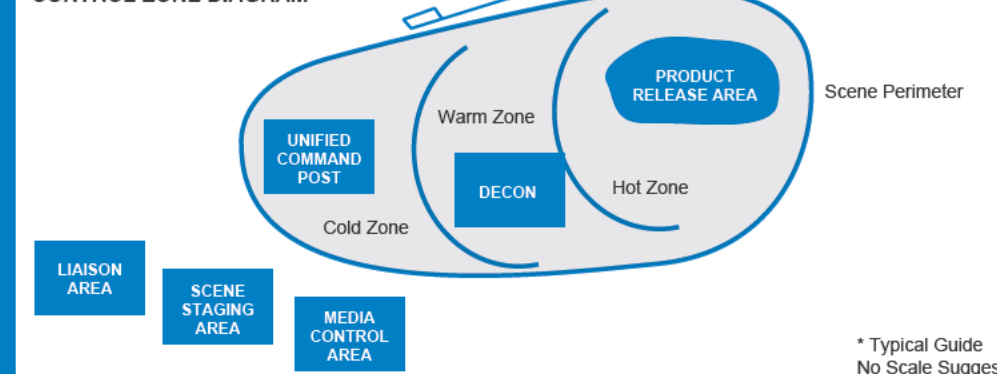
- Minimum disposal issues

DOCUMENTATION

- Ensure early completion of ICS Form 201 & JSSP
- Ensure proper retention of all incident related documents
- Ensure timely incident critique & record lessons learned

4

TYPICAL EMERGENCY SCENE CONTROL ZONE DIAGRAM



GENERAL PROCEDURES

- Protect public first then facilities
- Safely evacuate building if gas is detected inside building
- Always look and listen for any signs of escaped gas
- Do not open a building door if escaped gas is detected
- All open flames are to be extinguished
- Determine leak severity
- Do not enter building with audible leaking gas
- Test the environment to determine safe entry
- Evacuate people from adjacent buildings

GENERAL PROCEDURES (CONTINUED)

- Shut off electrical power to building
- Eliminate all other potential sources of ignition
- Isolate the building from gas sources if possible
- Close necessary inlet and outlet block valves and open blowdown valves
- After gas sources are shut off utilize portable combustible gas indicator/detector to determine safe environment

INITIAL ICS FORMS THAT MAY BE UTILIZED

- ICS Form 201 (Incident Briefing)
- ICS Form 202 (Response Objectives)
- ICS Form 214 (Unit Log)
- Job Site Safety Plan
- ICS Form 232 (Resources at Risk Summary)

DOT EMERGENCY RESPONSE GUIDEBOOK QUICK REFERENCE PAGES

Product	Guide #
Gasoline	128
Natural Gasoline	128
Diesel	128
LPG	115
Natural Gas	115
Crude Oil	128
Ethylene	116P



Chevron Pipe Line Company

OIL SPILL REMOVAL ORGANIZATIONS

SECTION 4

COMPANY CORE PLAN

OIL SPILL REMOVAL ORGANIZATIONS

SECTION 4 OIL SPILL REMOVAL ORGANIZATIONS

OIL SPILL REMOVAL ORGANIZATIONS	1
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Equipment Inspection/Testing	1
Other Company Resources	1
Contract Resources	1
Cooperative Resources	1
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Experts and Consultants	2
Internal Emergency Response Resources	2
Advisory & Resource Team	2
Worldwide Spill Response Team	2
Functional Teams	2
Communications Functions Team	3
Environmental and Technical Consultants	3
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OSRO CONTRACTS	6
MARINE SPILL RESPONSE CORPORATION SERVICE AGREEMENT	7
OSRO ADDRESSES	9

OIL SPILL REMOVAL ORGANIZATIONS

Local Area Response Equipment

Company locations have response equipment stored at their facilities. Detailed equipment lists for each Response Zone can be located in the applicable Response Zone Appendix in each State Manual. Company will maintain company owned equipment.

Equipment Inspection/Testing

Each Field Team Leader is responsible for testing, inspection and deployment of any facility owned equipment in accordance with PREP guidelines. Specifically, the equipment will be inspected monthly and deployed twice per year. A record will be made of each inspection, test, or deployment. The record must be signed and dated by the person performing the inspection test and/or deployment. Records will be maintained at the facility locations and available for agency inspection upon request.

Other Company Resources

Additional Company operating oil spill response equipment and personnel resources may be available to supplement the response operation. These company resources are described in the applicable Response Zone Appendix in each State Manual and in the Resources Section of the State Plan.

Contract Resources

In the event of a discharge beyond the capability of locally available Company resources, the response team may request activation of other Company resources, private contractors, cooperatives, Marine Spill Response Corporation (MSRC) and other experts and consultants. Additional specific contract resources are described in the applicable Response Zone Appendix in each State Manual. Contract resources are responsible to maintain their equipment.

Cooperative Resources

Company is a member to numerous oil spill clean up cooperatives. Assistance may range from advice on prevention, containment and clean-up procedures to providing equipment and direction for major spill clean-up operations. However, the company responsible for or in charge of the spill clean-up operation will direct and coordinate the clean-up effort.

A listing of various nationwide Oil Spill Removal Organizations (OSRO) are listed below. Copies of contracts for these and other OSRO's can be located in each State Appendix Manual.

Marine Spill Response Corporation (MSRC)

In the event of a discharge incident, which exceeds local company and private response capability, Company can request assistance from the Marine Spill Response Corporation (MSRC).

SECTION 4**COMPANY CORE PLAN****OIL SPILL REMOVAL ORGANIZATIONS**

MSRC is an independent, not-for-profit corporation dedicated to providing a “best-effort” response to help clean up large oil spills in the United States offshore and tidal waters, including bays, harbors and the mouths of rivers. MSRC also responds to spills further up river as directed. It is expected that the U.S. Coast Guard will direct MSRC to respond to a spill if the spill exceeds the capabilities of local response organizations.

Experts and Consultants**Internal Emergency Response Resources**

A variety of additional company-wide resource teams are organized to assist the Company in any emergency. When activated, team members will report to and work directly for the operating company managing the incident.

Advisory & Resource Team

The Advisory & Resource Team is an assessment and support team comprised of a management representative from the impacted operating company plus a professional in each of the following areas: public affairs, ecology, emergency response, safety and law. The team’s role is to provide advice during the initial stages of the incident and to assist the field in marshaling additional resources as needed. Once notified, the team will be in route to the incident site within a few hours. To activate the team, contact the HES Staff.

Worldwide Spill Response Team

The Worldwide Spill Response Team is a select group of experienced and highly trained individuals from the spill response organizations of the various operating companies. Team members are on call to fill and provide backup for key spill response and cleanup management positions. To activate team members, contact the HES Staff.

Functional Teams

Functional Teams provide specialized services to support an emergency response operation. Team members are experts who generally perform the same or similar functions in their regular jobs within the Company. Each team has prepared a response plan with materials they need for rapid response. The functional teams are:

- Communications
- Comptrollers
- Environmental
- Facilities
- Human Resources
- Insurance/Claims
- Legal
- Medical
- Public Affairs
- Purchasing
- Safety, Fire & Health
- Security
- Transportation

To mobilize the Functional Teams, contact the HES Staff.

Communications Functions Team

The Communications Functions Team (San Ramon, California) maintains a cache of specially designated communications equipment for emergency response. Equipment and support personnel are available by contacting the Communications Functional Team. Operating companies are encouraged to use the equipment during drills and actual response. This helps Company responders become more familiar with the Communications Functional Team operations.

Communications Functional Team equipment includes a 40' mobile communications vehicle that can also be utilized as a Command Post. Equipment also includes a large supply of radios, phone systems and satellite terminals. Half of the equipment is mounted in the vehicle, which may be driven or flown (on C-130 aircraft) to an incident site. The other half is packaged for air shipment.

Environmental and Technical Consultants

The Company maintains a relationship with various environmental and technical consultants that can provide support in the event of an incident. These consultants can provide expertise and support in areas including emergency response management, environmental services, site assessment, permitting, waste treatment, recycling, de-watering, hazardous waste disposal and remediation. Contact should be made through the HES Staff.

SECTION 4**COMPANY CORE PLAN****OIL SPILL REMOVAL ORGANIZATIONS****PRIMARY OIL SPILL RESPONSE ORGANIZATIONS (OSRO'S)**

Additional specific information regarding OSRO's, copies of agreements and other contract resources as well as their 24-hour emergency telephone numbers are listed in each Response Zone State Appendix.

Louisiana
Marine Spill Response Corporation (MSRC) and its STARS contractors
Philip Services Corp.
Garner Environmental Services
ES&H
AMPOL

Mississippi
Marine Spill Response Corporation (MSRC) and its STARS contractors
Philip Services Corp.
Oil Mop, Inc.
Garner Environmental Services
AMPOL
ES&H

Texas
Garner Environmental Services
Marine Spill Response Corporation (MSRC) and its STARS contractors
Oil Mop, Inc.
AMPOL
ES&H

Colorado
Marine Spill Response Corporation (MSRC) and its STARS contractors

Utah
Marine Spill Response Corporation (MSRC) and its STARS contractors

Idaho
Marine Spill Response Corporation (MSRC) and its STARS contractors

SECTION 4

COMPANY CORE PLAN

OIL SPILL REMOVAL ORGANIZATIONS

Oregon

Marine Spill Response Corporation (MSRC) and its STARS contractors

Washington

Marine Spill Response Corporation (MSRC) and its STARS contractors

New Mexico

AMPOL

California

Marine Spill Response Corporation (MSRC) and its STARS contractors

Alabama

Marine Spill Response Corporation (MSRC) and its STARS contractors

Philip Services Corp.

Garner Environmental Services

ES&H

SECTION 4

COMPANY CORE PLAN

OIL SPILL REMOVAL ORGANIZATIONS

OSRO CONTRACTS



Global Gas

May 15, 2012]

RE: USCG Approved OSRO's

Dear Sir or Madam:

This letter certifies that we have current procurement contracts in place with the following Emergency Response contractors. Below is a table that identifies the pertinent information. All contracts are on file at our Corporate Office in Bellaire, Texas.

Contractor's Name	Agreement Number
AMPOL	Contract # 99015262 / C16174 Ariba # C965995
ES&H	Contract # C25524 Ariba # C700484
Enviro Care, Inc.	Contract # C688391 Ariba # C808977
Marine Spill Response Corporation (MSRC) and its STARS contractors	Contract # 6CHUSA01 / CW778784 Ariba # C782016
Oil Mop, Inc.	Contract # C952067 Ariba # C956670
Patriot Environmental Services	Contract # 99014187 Ariba # C16298
PSC Industrial Outsourcing	Contract # 99002233 Ariba # C17031
U.S. Environmental Services	Contract # C25863 Ariba # C948989

Should you have any questions, please feel free to contact me at 713-432-6926

Sincerely,

A handwritten signature in cursive script that reads "Terry Basham".

Terry Basham

Emergency Response Specialist
Chevron Pipe Line Company
4800 Fournace Place, Room E320A
Bellaire, TX 77401-2324
Tel 713 432-432-6926
Fax 713-432-3477
tgbasham@chevron.com

SECTION 4

COMPANY CORE PLAN

OIL SPILL REMOVAL ORGANIZATIONS

MARINE SPILL RESPONSE CORPORATION SERVICE AGREEMENT

MARINE SPILL RESPONSE CORPORATION
SERVICE AGREEMENT

EXECUTION INSTRUMENT

The MSRC SERVICE AGREEMENT attached hereto (together with this execution instrument, the "Agreement"), a standard form of agreement for MPA members (or their affiliates) dated as of December 1, 1994, is hereby entered into by and between

Chevron U.S.A. Inc.

[Name of COMPANY]

a Pennsylvania Corporation

[Type of entity and place of organization]

with its principal offices located at 575 Market Street, San Francisco, California 94105

(the "COMPANY"), and MARINE SPILL RESPONSE CORPORATION, a nonprofit corporation organized under the laws of Tennessee ("MSRC"), and shall be identified as

SERVICE AGREEMENT No. 6CHUSA01 [This is to be provided by MSRC.]

IN WITNESS WHEREOF, the parties hereto each have caused this Agreement to be duly executed and effective as of the 31st day of December, 1994.

Chevron U.S.A. Inc. [COMPANY]

By:  [signature]

T. R. Moore [print name]

Title: Attorney in Fact

c/o Chevron Shipping Company

Address: 555 Market Street

San Francisco, CA 94105

Telephone: 415/894-3232 Fax: 415/894-4463

MARINE SPILL RESPONSE CORPORATION:

By: 

John W McGrath
Director, Marketing & Client Relations
1350 I St. N.W. Suite 300
Washington, D.C. 20005

202/408-7486; Fax: 202/371-0401


- (2) The first sentence of the text of Section 8 is revised to read as follows:

"Section 8. Termination and Expiration of this Call Agreement. Subject to the provisions of Section 9(b) of this Call Agreement, this Call Agreement and the other Call Agreements shall terminate and expire upon the later to occur of (i) the date on which the Company's Standard Agreement (or any successor agreement to the Company's Standard Agreement) terminates or (ii) the satisfaction and payment of all Indemnified Amounts owing with respect to Events occurring on or before the date on which the Company's Standard Agreement (or any successor agreement to the Company's Standard Agreement) terminates."

Except as set forth in the preceding paragraphs, this Amendment shall not be deemed in any way to modify or amend the provisions of the Call Agreement, all of which provisions remain in full force and effect. The effective date of this Amendment shall be as of the date hereof.

IN WITNESS WHEREOF, the undersigned have hereby executed this Amendment as of the 31st day of December, 1994.

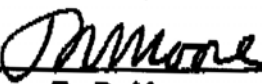
MARINE PRESERVATION ASSOCIATION

By: 
Name: Robert Aldag
Title: President and CEO

NAME OF MPA MEMBER:

Chevron U.S.A. Inc.
a Pennsylvania Corporation

[Corporation/partnership/other]:
c/o Chevron Shipping Company
555 Market Street
San Francisco, CA 94105

By: 
Name: T. R. Moore
Title: Attorney in Fact

SECTION 4**COMPANY CORE PLAN****OIL SPILL REMOVAL ORGANIZATIONS**

OSRO ADDRESSES

Ampol
5619 Port Road,
New Iberia, LA 70364

ES&H
1730 Coteau Road
Houma, LA 70364

Garner Environmental
1717 W. 13th Street
Deer Park, TX 77536

Marine Spill Response Corp.
455 Spring Park Place, Suite 200
Herndon, VA 20170

Oil Mop, Inc. 800-645-6671
131 Keating Drive
Belle Chasse, LA 70037

PSC Industrial Outsourcing
543 Renaud Road
Lafayette, LA 70507

US Environmental Services
2809 E. Judge Perez Drive
Merauz, LA 70075

COMPANY CORE PLAN

**RESPONSE ACTIVITIES
SECTION 5**

RESPONSE ACTIVITIES

SECTION 5 RESPONSE ACTIVITIES

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INCIDENT COMMAND SYSTEM

Company utilizes the US Coast Guard Incident Command System (ICS) 2006 Incident Management Handbook (IMH) to manage incident response activities. ICS is readily expandable to help manage small incidents as well as larger more complex incidents. ICS is an effective safety and incident management tool and should be implemented for all emergency incidents that may cause potential harm to responders, the public, the environment or property. Staffing and resources needed to meet specific incident needs will be based on the size, complexity and severity of the incident. At minimum, HAZWOPER regulations require the ICS positions of Incident Commander and Safety Officer to be implemented during a response to a hazardous or potentially hazardous substance.

Refer to Section 6 of this Core Plan for the ICS organization and references to the US Coast Guard 2006 Incident Management Handbook (IMH).

UNIFIED COMMAND

Many incidents will require unified participation of agency and Company response personnel. Depending on the location of the incident, the most senior Federal, State or possibly Local agency person on scene, will serve as that organizations On-Scene Coordinator (OSC) or Incident Commander (IC). The agency OSC or IC will work alongside the Company Incident Commander. External organizations, such as resources from other Operating Companies, OSRO's, Co-Ops and contractors may also be integrated into the Unified ICS organizational structure.

RESPONSE TEAM ORGANIZATION

Company utilizes a three-tier incident response approach.

Tier 1 - Immediate Response Team

The Immediate Response Team is made up of the local field team members from the system where the incident occurs and will be the initial responders to the incident.

Tier 2 - Sustained Response Team

The Sustained Response Team is made up of Immediate Response Team members from other Teams and specifically trained employees from throughout Company. This Team will be activated to help supplement the local Field Team when the magnitude of the spill incident indicates the need for additional resources, or where it is anticipated that the response effort will be sustained.

Tier 3 - Major Incident Response Team

The Major Sustained Response Team draws on specialists and specifically trained employees from throughout Company's Worldwide Organization.

COMPANY CORE PLAN

SECTION 5
RESPONSE ACTIVITIES

CHEVRON INCIDENT RESPONSE MATRIX

Company Incident Response		
Level of Incident	Response by (all or part of)	Augmentative Resources
Immediate (Tier 1)	<ul style="list-style-type: none"> IMMEDIATE RESPONSE TEAM 	<ul style="list-style-type: none"> SUSTAINED RESPONSE TEAM RELEASE CONTROL SPECIALISTS
Sustained (Tier 2)	<ul style="list-style-type: none"> IMMEDIATE RESPONSE TEAM SUSTAINED RESPONSE TEAM 	<ul style="list-style-type: none"> RELEASE CONTROL SPECIALISTS MUTUAL AID TEAMS WORLDWIDE FUNCTIONAL TEAMS MUTUAL AID POOL
Major (Tier 3)	<ul style="list-style-type: none"> IMMEDIATE RESPONSE TEAM SUSTAINED RESPONSE TEAM RELEASE CONTROL SPECIALISTS MUTUAL AID TEAMS WORLDWIDE FUNCTIONAL TEAMS MUTUAL AID POOL WORLDWIDE SPILL RESPONSE TEAM 	Depending on the level and Nature of the incident, response can be by entire teams or selected members. Any response effort can be augmented as necessary by activating selected teams or personnel from other organizations.

Immediate Response Team

The first Company employee on scene will implement the Incident Command System (ICS) and initially assume the role of Incident Commander (IC). Transfer of command may take place as more senior supervisors respond to the incident. The IC role will usually be filled by the Team Leader if available.

The number of positions needed to staff this minimum organization will depend on the size and complexity of the spill.

Sustained Response Team

This second level of response is utilized when the magnitude of the incident indicates the need for additional personnel and equipment, or where it is anticipated that the response effort will be sustained.

ICS positions under a sustained response may be transferred to others at anytime or at the end of the “Current” operating period. Establishing Operational Periods are often beneficial to help provide for adequate planning, safety and continuity of response activities.

Some ICS positions may require Deputies or Assistants (i.e. Deputy Incident Commander) to help manage span of control issues.

During sustained and major sustained incidents, functional operations and geographic areas of the incident may need to be divided into Branches, Divisions or Groups as the incident expands.

Branches are usually functional (i.e. Support Branch under the Logistics Section).

Divisions are usually geographic (i.e. a Division under the Operations Section may be utilized to denote a geographic area, like the Northwest Shoreline of an island undergoing cleanup operations).

Groups are usually functional (i.e. Containment or Cleanup Groups functioning under the Operations Section).

Major Sustained Incident Response Team

This Major Sustained Response Team is organized to manage larger complex incidents with widespread impact. A major event is an event that would require additional personnel and resources from the Corporation and elsewhere.

When implemented, this team would augment the Sustained Response Team, supplying additional resources and expertise in functional areas of the organization as necessary. This would help to increase the strength of the organization by utilizing the best specialists and professionals available.

HAZWOPER TRAINING LEVELS

The HAZWOPER regulations prescribe minimum training requirements for various incident responder levels. There are initial and refresher training requirements that must be met. The Team Leader is responsible for insuring that all employees that may be called on to participate in incident response have met these training requirements. Refer to Section 12 of this Core Plan for HAZWOPER training guidelines.

CONTRACTOR TRAINING

Contract employees who will be utilized in incident mitigation and cleanup activities are also required to meet minimum HAZWOPER training requirements. The Team Leader is responsible for insuring that contractors which Company may utilize in the response, recognize HAZWOPER requirements and provide the training needed.

CASUAL HIRE TRAINING

During post-incident responses it may become necessary to hire additional personnel for site clean up and rehabilitation. Whenever temporary personnel (casual hires) are involved, Company shall review the following items to ensure that post-emergency response personnel are properly trained:

- Job Site Safety Plan
- Chemical hazards at the site
- Appropriate personal protective equipment
- Specific role in the clean up
- Names and contacts for the incident's Incident Command System

Upon completing this review, temporary personnel will sign a roster sheet indicating that they have received training regarding the items covered. The roster sheet will then be forwarded to the Incident Commander for inclusion in the incident documentation.

COMMAND ORGANIZATION LOGISTICS

Effective spill response requires an efficient deployment of field, supervision and support staff. Careful consideration should be given to help determine the physical location of Command, Staging and other elements of the organization like Branches, Divisions or Groups.

Incident Command Post Location

The location of the Incident Command Post (ICP) depends on the location, severity and duration of the incident. Other influencing factors may include agency ICP location preference and whether or not agencies have formulated a location for the ICP before Company resources arrive.

Since each incident is different (i.e. location, type of product, weather, geography, time of day, agreements with mutual aid resources, agency resources and so forth) the Incident Commander should choose the location of the Incident Command Post carefully.

As an example, the Incident Command Post for an incident occurring offshore, may be established quite a distance from the event at a shorebase, regional company offices or a hotel with conference center capabilities.

COMPANY CORE PLAN**SECTION 5
RESPONSE ACTIVITIES**

On the other hand, should a release occur in a municipal area that may effect storm drains, drainage channels, streets, businesses and public areas, the local fire and police agencies may wish the Incident Command Post be located closer to the event in an open safe area.

Again, it is up to the Incident Commander, working with Local, State and/or Federal Agencies to determine the location of the Incident Command Post.

As the incident grows it may be necessary to establish physical “Branch” or “Division” locations away from the Incident Command Post. It may also be necessary to establish additional Staging areas depending on the size and complexity of the incident.

JOB SITE SAFETY PLAN DEVELOPMENT

The Incident Commander will be responsible for ensuring that the Job Site Safety Plan is completed. This task is usually assigned to the Safety Officer in the ICS organization. See Section 7 of this Core Plan for a complete Job Site Safety Plan and instructions for completion.

OPERATIONAL PERIOD PLANNING CYCLES

The use of organized operational period planning cycles is an important tool to help achieve increased organizational effectiveness and communications during an incident. An example of the accepted agency methodology concerning operational planning is located on page 3 of Section 6.

HUMANITARIAN ASSISTANCE

The Incident Commander will determine if Company humanitarian assistance is needed during an emergency event, cleanup or disaster. Humanitarian assistance may include providing food, water and lodging to displaced persons. Humanitarian assistance may also include assisting Local and State Agencies with specific humanitarian assistance support. In such instances the Incident Commander will utilize the various Incident Command Sections to assist with this effort.

Initially, any food, water or lodging needs will generally be coordinated by the Logistics Section Chief within the Incident Command System.

INSPECTION AND MAINTENANCE OF OIL SPILL EQUIPMENT

Company has a program to inspect and maintain the oil spill equipment stored at its facilities.

Monthly Visual Inspections

A monthly visual inspection will be made of all oil spill equipment and materials. The objective is to determine the following:

- Designated equipment and materials are present
- Designated equipment and materials appear in good condition

COMPANY CORE PLAN**SECTION 5
RESPONSE ACTIVITIES**

- Designated equipment and materials are properly stored and protected and are readily loaded or deployed
- Stocks have not been depleted or disturbed

The inspector will log his inspection on the Oil Spill Equipment Monthly Inspection Forms and make distribution as indicated. One copy will be maintained at the location.

After Deployment

An additional inspection will be made of all equipment and supplies following deployment for spills or drills. Any deficiencies, missing parts or maintenance needs noted during the deployment will be rectified as soon as possible. Any equipment requiring work in the shop will be expeditiously transported and an equivalent replacement provided if practical. This inspection will also be logged on the Oil Spill Equipment Inspection Form and distributed.

Annual Detailed Inspection

At least once annually, all equipment will be inspected to determine if any replacement or repair needs noted. This inspection can be made in conjunction with a drill; however, if a particular piece of equipment has not been deployed during drills, it may be separately deployed, inspected and tested for proper operation. Recommended repairs and replacements will be made promptly.

SAFETY / FIRE PROTECTION**Fire Fighting Equipment**

Adequate firefighting equipment shall be maintained at all pump and breakout tank areas. The equipment will be:

- Inspected monthly to ensure that it is in proper operating conditions at all times
- Plainly marked (painted red), so that it is easily identifiable as fire fighting equipment
- Located so that it is easily accessible in case of a fire
- All personnel will be thoroughly trained in the use of each piece of equipment

Leak Repair Procedures

Additional Safety/Fire Protection guidelines can be found in Company's Maintenance and Inspection Procedures Manual.

Smoking / Open Flames

Smoking will be confined to designated smoking areas. Discarding matches, cigarettes or cigars from any vehicle is prohibited.

COMPANY CORE PLAN**SECTION 5
RESPONSE ACTIVITIES**

Hot work permits will be required before any welding/cutting operations commence or other operations that would introduce a source of ignition in a restricted area. A restricted area is any area within 150 feet of hydrocarbon service or storage facilities.

NATIONAL CONTINGENCY PLAN**National/Regional Incident Command Responsibilities**

Company's ICS/Unified Command organization is in alignment with the National Incident Management System (NIMS) ICS response organization utilized under the National Contingency Plan.

The National Contingency Plan (NCP) describes the responsibilities of the Federal government when responding to a Spill of National Significance (SONS.) These responsibilities include providing strategic coordination in the coastal and inland zones either for, or as, the Federal on Scene Coordinator (FOSC). Based on the need for overall Federal coordination, a National or Regional Incident Command (NIC/RIC) organization may be activated at the discretion of the controlling Federal authority.

This model is based on the "Area Command" organizational model that is used for major/multiple incident management within (NIMS) ICS. The NIC/RIC organization's responsibilities will include the following:

- Brief the Commandant (and Area Commander if applicable) or Administrator of the EPA and obtain feedback regarding agency expectations, concerns and constraints.
- If operating as a Unified Command, develop a working agreement with all participants to employ (NIMS) ICS as the response management system.
- Assess incident potential and ensure the NIC/RIC infrastructure is capable of meeting response objectives.
- Set the stage for accomplishment of the best possible response, providing clear understanding of agency expectations, intentions and constraints. Provide overall direction and management of the incident(s), including setting overall objectives.
- Ensure that the response is addressing the priorities and direction set by the NIC/RIC.
- Establish priorities for assignment & demobilization of critical resources.
- Assign and approve demobilization of critical resources
- Establish/approve policy for release of information to the news media, the public, etc.
- Serve as public spokesperson for the overall incident response.
- Manage staff to ensure Incident Management Teams (IMTs) are supported, monitored.

NIC/RIC GUIDELINES

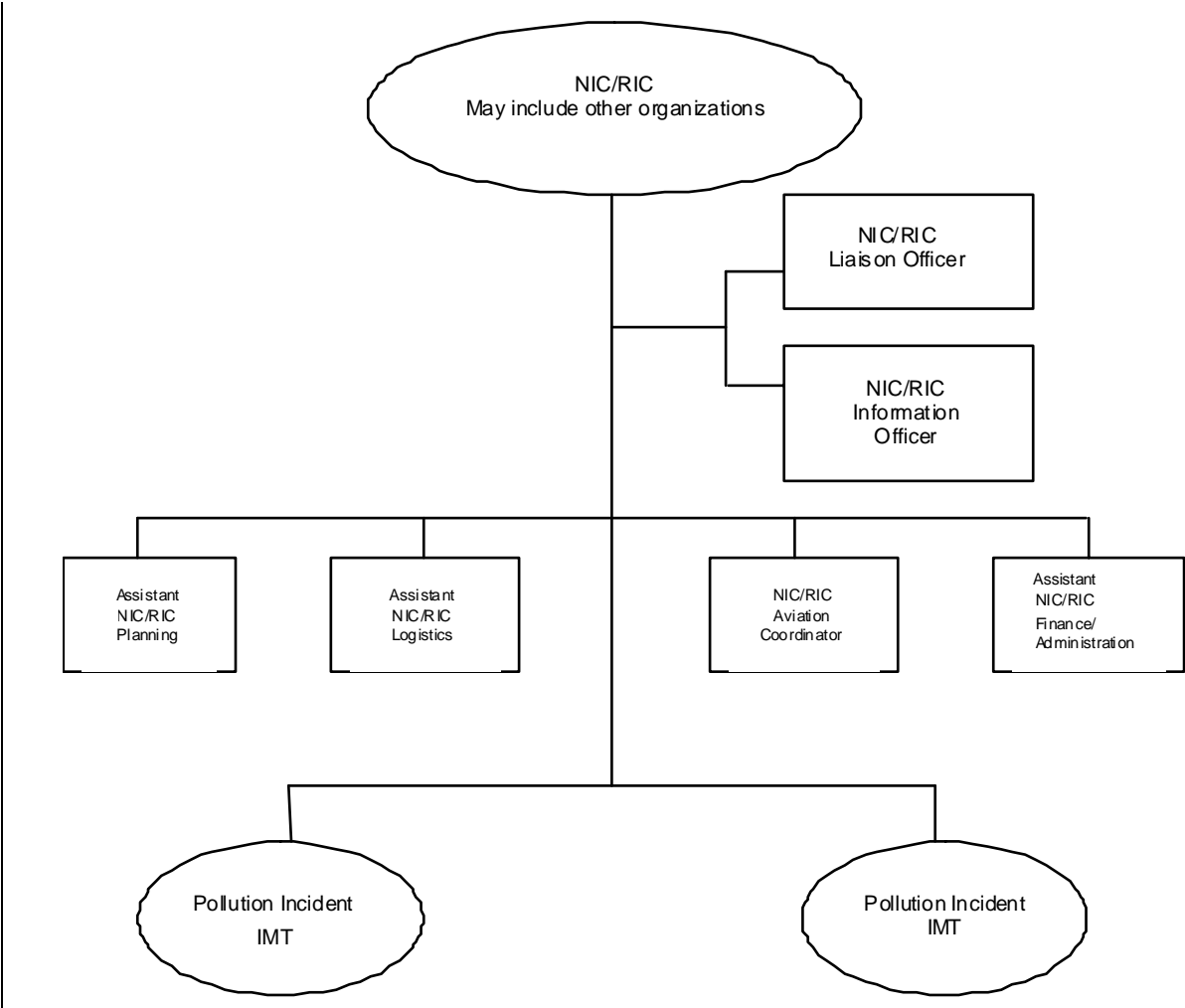
- Fundamental to the (NIMS) ICS organizational philosophy is that the organization be shaped to match the specific requirements of the incident. The division of responsibilities specified here should be considered the beginning framework. Shaping the interface between National Incident Commander (NIC)/Regional Incident Commander (RIC) and the Incident

COMPANY CORE PLAN**SECTION 5
RESPONSE ACTIVITIES**

Commander (IC) or Unified Command (UC) and their IMTs and establishing the best division of labor will be especially challenging.

- Avoid locating the National/Regional Incident Command with an Incident Command Post.
- The NIC/RIC role is to ensure support of, and coordination between a single or multiple IMTs, is enhanced if the NIC/RIC can be located with, or near, the expanded supply network. This facilitates NIC/RIC Logistics' ability to directly support the IMT(s) and positively influence critical resource issues.
- Implement additional positions as necessary for an effective and efficient response. Specific agency guidance on NIC/RIC, as specifics may change from time to time. Keep in mind, however, that the Responsible Party and other agencies may use different organizational structures (e.g., not based upon the (NIMS) Area Command Model) to conduct incident management activities. In such instances, the NIC/RIC will work with the RP and other agencies to agree on an organizational structure that best ensures effective strategic coordination.

NIC/RIC ORGANIZATION



Refer to (NIMS) ICS “Area Command” documentation and/or agency guidance for position-specific descriptions.

INCIDENT COMMAND SYSTEM

SECTION 6 INCIDENT COMMAND SYSTEM

NATIONAL INCIDENT MANAGEMENT SYSTEM (NIMS)/INCIDENT
COMMAND SYSTEM (ICS)..... 1

 USCG Incident Management Handbook (IMH) 1

ICS JOB DESCRIPTION 1

NIMS ICS FIVE MAJOR FUNCTIONAL AREAS 2

USCG IMH OPERATIONAL PERIOD PLANNING CYCLE GUIDE..... 3

NATIONAL INCIDENT MANAGEMENT SYSTEM (NIMS)/INCIDENT COMMAND SYSTEM (ICS)

The National Incident Management System (NIMS) is a nationwide standardized approach to incident management and response. NIMS utilizes the Incident Command System (ICS).

The Incident Command System is used to manage incident response activities. ICS is readily expandable to help manage small incidents as well as larger more complex incidents. ICS is an effective safety and incident management tool and should be implemented for all emergency incidents that may cause potential harm to responders, the public, the environment or property. Staffing and resources needed to meet specific incident needs will be based on the size, complexity and severity of the incident. At minimum, HAZWOPER regulations require the ICS positions of Incident Commander and Safety Officer to be implemented during a response to a hazardous or potentially hazardous substance.

This Section contains an example of the basic NIMS ICS Organization (five functional areas) and the Operational Period Planning Cycle.

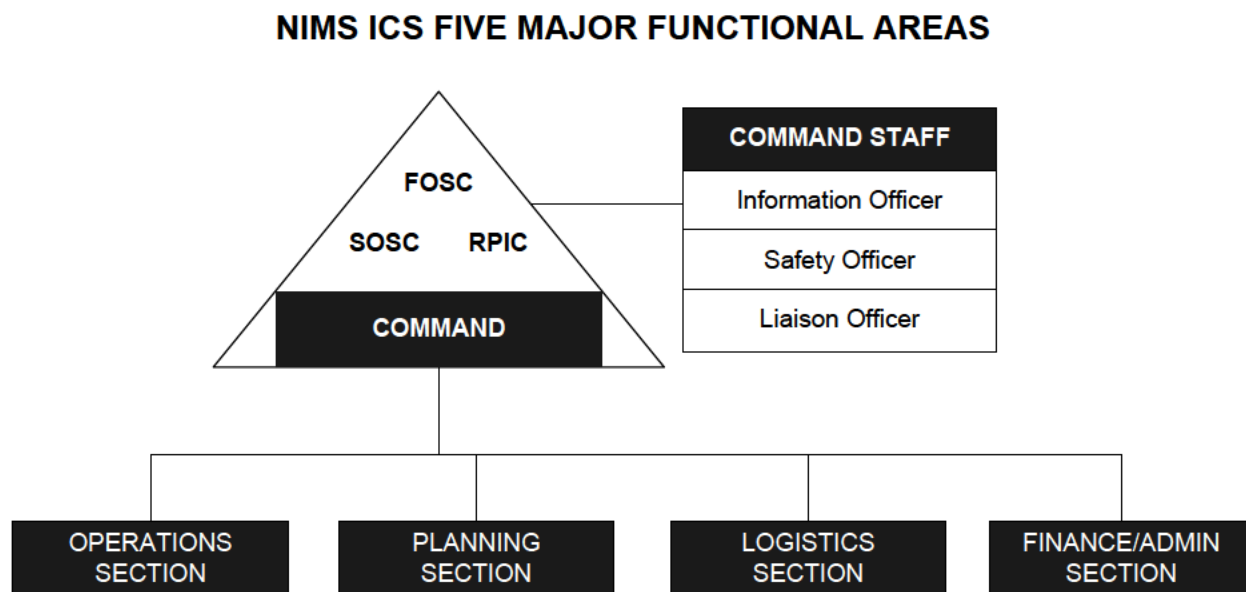
USCG Incident Management Handbook (IMH)

Company will utilize the U.S. Coast Guard 2006 Incident Management Handbook (IMH) as the primary guide for incident response.

Access to complete versions of the latest U.S. Coast Guard Incident Management Handbook (IMH) can be located on the U.S. Coast Guard web site at www.uscg.mil.

ICS JOB DESCRIPTION

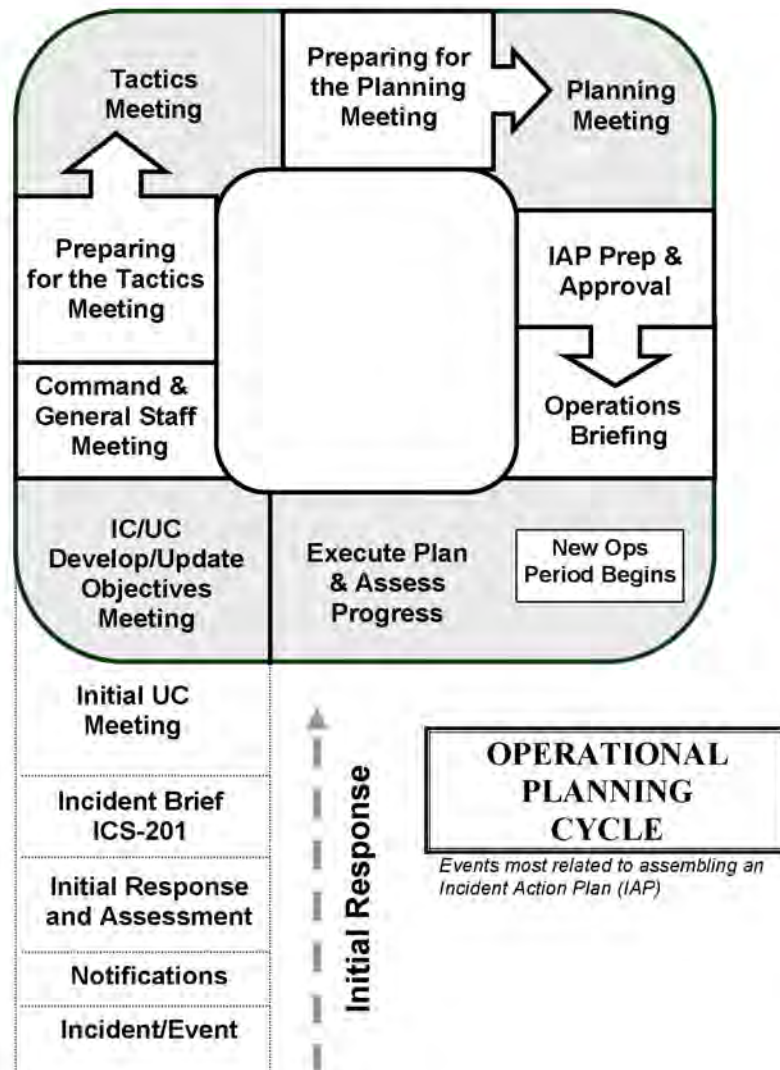
ICS job descriptions listed in the 2006 USCG IMH are consistent with the Northwest Area Contingency Plan.

NIMS ICS FIVE MAJOR FUNCTIONAL AREAS

USCG IMH OPERATIONAL PERIOD PLANNING CYCLE GUIDE

AUGUST 2006

CHAPTER 3

OPERATIONAL PLANNING CYCLE, MEETINGS,
BRIEFINGS, AND THE ACTION
PLANNING PROCESS

3-1
 OPERATIONAL PLANNING CYCLE OPERATIONAL PLANNING CYCLE

JOB SITE SAFETY PLAN

SECTION 7 JOB SITE SAFETY PLAN

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ENTERING AN AREA WHERE LEL IS = OR > 10% OF LEL

To enter an atmosphere that is $\geq 10\%$ LEL, you must address:

- Safety of yourself and of others.
- Complete a detailed site Hazard Analysis utilizing the JSSP.
- Determine the right equipment and PPE to mitigate the risk to the employees or contractors entering the area.
- Write out the plan and discuss in detail.
- Gain approval from the Team Leader, HES Safety Specialist and the Profit Center Manager prior to entry (verbal is permissible) and document this approval.
- Execute the written plan.

For all Emergency Response situations, the Field Team must implement the ICS (Incident Command System) and review the Emergency Response Guide First Responder under Section 3 of the Core Plan for the applicable situation.

JOB SITE SAFETY PLANS (JSSP)**For Emergency Response Operations**

The JSSP is not a substitute for the Safe Work Permitting Process

PURPOSE:

This Site Safety Plan must be completed to:

- Comply with OSHA requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER) 29 CFR 1910.120; NOTE: All personnel reporting to the site, must have Level 3 Technician training.
- Comply with Chevron Pipe Line Company's Incident Reduction Program requirements.

This plan, which must remain on site, shall address all safety and health hazards and include the requirements for employee protection.

SCOPE:

This plan applies to all **Emergency Response operations** and the personnel, company and contractor, working in or on Chevron Pipe Line Company owned or operated facilities.

Note: The JSSP can be used as tool for planning work activities. The JSSP does not replace any CPL required permits for normal work activities.

INSTRUCTIONS:

Complete Section I, **Hazards Analysis** for all jobs listed above. A hazards analysis shall be performed by a qualified employee in order to aid in the selection of appropriate personal protective methods prior to commencing work activities.

Complete Section II, **Job Specific Activity Planning** for only those jobs listed above that involve confined space entry; excavation; lockout/tagout; or hot work. Complete only those sections that apply to the job.

Complete Section III, **Specific Requirements for Hazardous Waste Operations and Emergency Response** for those jobs involving activities covered by HAZWOPER (29 CFR 1910.120).

COMPANY CORE PLAN

I. HAZARDS ANALYSIS

All suspected conditions that might pose safety and health hazards shall be identified and evaluated. Identify specific safety and health hazards and determine the appropriate safety and health control procedures needed to protect personnel from the identified hazards.

DATE(s):**LOCATION:****SITE DESCRIPTION:**

Describe the work site and the surrounding terrain. Attach a map to this plan, if available.

WORKPLAN:

Brief description of the work (project/clean-up operation) and related work activities and tasks, approximate work force, tools to be used, expected duration of project/clean-up operation, and any special equipment to be used.

SAFETY AND HEALTH HAZARDS:

Describe safety and health hazards which may be associated with the work plan described above. Potential hazards may include: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> inhalation of hazardous substance (list below) | <input type="checkbox"/> hazards to eyes |
| <input type="checkbox"/> skin contact with hazardous substance (list below) | <input type="checkbox"/> cuts and abrasions |
| <input type="checkbox"/> flammable or toxic substances (list below) | <input type="checkbox"/> vehicular / pedestrian traffic |
| <input type="checkbox"/> heat stress and/or exhaustion | <input type="checkbox"/> confined space entry |
| <input type="checkbox"/> cold stress | <input type="checkbox"/> excavation |
| <input type="checkbox"/> noise | <input type="checkbox"/> lockout/tagout |
| <input type="checkbox"/> water hazards | <input type="checkbox"/> hot work |
| <input type="checkbox"/> other hazards / concerns (list) | |

Comments:

MATERIAL CHARACTERIZATION:

Provide data for known materials, if any.

MATERIAL	PEL / IDLH	HEALTH HAZARDS	ROUTE(S) OF EXPOSURE

ATTACHED MSDS(s):

A MSDS's must be available on site for all chemicals used on the project or during the clean-up operations. Attach all MSDS's and list all MSDS's that are attached below.

INITIAL ASSESSMENT:

PROVIDE INITIAL AIR MONITORING DATA. AIR MONITORING CONDUCTED AFTER THE INITIAL ASSESSMENT SHOULD BE ENTERED ONTO THE MONITORING LOG SHEET ON PAGE

MATERIAL	DATE & TIME	LOCATION	RESULTS	SAMPLED BY

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:

(Check all that apply)

<input type="checkbox"/>	Boots	<input type="checkbox"/>	Air Purifying Respirators (check appropriate type)
<input type="checkbox"/>	Slicker Suit	<input type="checkbox"/>	Half-mask cartridge (refer to HES-502 for guidance)
<input type="checkbox"/>	Tyvek Suit (may include hoods/ booties)	<input type="checkbox"/>	Full mask cartridge (refer to HES-502 for guidance)
<input type="checkbox"/>	Nomex Clothing	<input type="checkbox"/>	Specific cartridge type for activity: (refer to HES-502 for cartridge selection)
<input type="checkbox"/>	Gloves	<input type="checkbox"/>	Self-Contained Breathing Apparatus
<input type="checkbox"/>	Goggles	<input type="checkbox"/>	Supplied Air Line Unit
<input type="checkbox"/>	Safety Glasses	<input type="checkbox"/>	
<input type="checkbox"/>	Hard Hat	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>	Other (specify)	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	

COMPANY CORE PLAN

SAFETY EQUIPMENT:

First aid supplies	location(s):	
Eye wash/Shower	location(s)	

EMERGENCY EVACUATION:

If an emergency occurs at this site, how will workers be alerted and where should personnel evacuate to?
Review with all personnel.

--

EMERGENCY INFORMATION:

List phone numbers of local emergency services.

NOTE: Best Practice- List direct dial numbers for local First Responders (Law Enforcement, Fire, etc).

Avoid using 911.

FIRE:	
DOCTOR:	
AMBULANCE:	
HOSPITAL:	
SHERIFF:	

Pre-Start Up Briefing:

The Incident Commander or Safety Officer will ensure that pre-start up briefings are conducted before commencing any work to ensure employees and contractors are aware of this entire work plan. Briefly outline this process below.

--

COMPANY CORE PLAN

JOB SITE SAFETY PLAN
SECTION 7**II. JOB SPECIFIC ACTIVITY PLANNING:**

Check and complete all sections that apply to this project or clean-up operations.

Safe Work: (HES-204)

Utilize the Safe Work Permit to initiate the Safe Work Permitting process.

CONFINED SPACE: (HES-201)

Briefly describe the work activity involving confined spaces and complete the Confined Space Entry Permit (App.B) and the Emergency Action Plan (App.B)

EXCAVATION: (HES-202)

Briefly describe the work activity involving excavation and complete the Excavation Permit (CPL-687).

LOCKOUT/TAGOUT: (HES-203)

Briefly describe the work activity involving lockout/tagout and complete the Equipment Specific Procedure Sheet (CPL-679)

HOT WORK: (HES-205)

Briefly describe the work activity involving hot work and complete the Hot Work Permit (App B)

COMPANY CORE PLAN

JOB SITE SAFETY PLAN

SECTION 7

**III. SPECIFIC REQUIREMENTS FOR EMERGENCY RESPONSE
AND CLEAN-UP OPERATIONS**

Complete this section for those jobs involving emergency response activities covered by HAZWOPER.

NOTE: All personnel responding to the onsite release; that will be working in the Hot Zone or cleaning up the release must present their current Hazwoper Training card upon check-in to the site. NO ONE can enter the site prior to this verification.

ORGANIZATION STRUCTURE:

List by name the following personnel in the ICS.

Incident Commander:

--

Safety Representative:

--

Public Affairs Representative:

--

Contractor's Project Manager:

--

TRAINING PROGRAM:

All personnel working in response operations and clean-up activities must be trained per OSHA's HAZWOPER requirements. Describe the process to ensure all personnel are HAZWOPER trained to their job responsibilities. If any safety, fire and health training must be conducted, attach the written training program and a list of the program's attendees.

--

EFFECTIVENESS OF SITE SAFETY PLAN:

Inspections shall be conducted by the Safety Representative to determine the effectiveness of this site safety plan. Any deficiencies in the effectiveness of the site safety plan shall be corrected. Describe this process below

--

COMPANY CORE PLAN**JOB SITE SAFETY PLAN****SECTION 7****SITE CONTROL:**

Briefly describe the process and methods to control access to and egress from the various emergency response and clean-up operations. Describe the process to allow personnel into the various zones (i.e., hot zone).

Explain how the various zones are going to be marked.

ENGINEERING CONTROLS:

Engineering controls, work practices, and personal protective equipment, or a combination of these shall be used to protect employees from exposure to the hazardous substances listed above. Examples of engineering controls are: the use of pressurized cabs or control booths, and/or the use of remotely operated material handling equipment. Describe below the engineering controls in use during the emergency response and clean-up operations.

WORK PRACTICES:

Describe below the work practices in use during the emergency response and clean-up operations. Some examples of work practices are: removing all non-essential personnel from potential exposure during opening of drums, wetting down dusty operations, and locating personnel upwind of possible hazards.

MEDICAL SURVEILLANCE REQUIRED:

Personnel who may have developed signs or symptoms which may have resulted from exposure to hazardous substances resulting for emergency response or clean-up operations, or exposed during emergency response or clean-up operations to hazardous substances above the permissible exposure limits without the necessary personal protective equipment shall receive a medical examination as soon as possible following the incident or development of signs or symptoms. Describe below how this will be handled.

COMPANY CORE PLAN

JOB SITE SAFETY PLAN

SECTION 7

MONITORING PROGRAM:

Air monitoring shall be used to identify and quantify airborne levels of hazardous substances in order to continually determine the appropriate level of personal protective equipment that is required. Describe below what monitoring will be done and how the monitoring will be conducted. A monitoring log sheet is attached to this plan.

--

NOTE: Attach Monitoring Log Sheet to plan.

DECONTAMINATION:

A decontamination procedure shall be developed, communicated to all employees and implemented before any employees or equipment may enter areas on site where potential for exposure to hazardous substances exist. Describe these decontamination procedures below.

--

DISPOSAL METHODS:

Describe the various methods available to properly dispose of the listed material and/or equipment. If you have any questions contact your Waste Specialist.

Hazardous Material:	
Personal Protective Equipment:	
Recovered Debris:	

PREPARED BY: _____ Date: _____

REVIEWED/APPROVED BY: _____ Date: _____

COMPANY CORE PLAN

JOB SITE SAFETY PLAN
SECTION 7

WORKPLACE EXPOSURE MONITORING RECORD



Workplace Exposure Monitoring Record

(See Chevron Guidance for Occupational Hygiene Exposure Assessment, Prevention and Control for instructions on completing this form)

Sampling Information

Sample/Serial Number Sample Date (MM/DD/YYYY)
 Master Sample Sample Type (P/W/BLNK) Limit Type (TW/A/STEL/ACE)
 Operation Status Sampled By (CAI/Name)
 Survey Number
 Sampling Strategy Lab Name
 Substance Group (for chemicals only)
 Noise Type (Steady/Intermittent/Impulse)
 Approve ☐ Void ☐ Void Reason Jurisdiction

Employee Information (Personal Samples Only)

Employee Name (Last, First, Middle Initial)
 O/X Employee? ☐ Yes ☐ No If No, Contractor Company Name Contractor's Birthday (MM/DD)
 Job Position PPE 1
 Similar Exposure Group PPE 2
 Shift (24 hrs. HH:MM) to Shift Length PPE 3
 Supervisor PPE 4

Sample Location

Operating Company Organization
 Department Building / Zone
 Division Floor Area
 Geographic Location
 Location Comments

Sampling Equipment

☐ Direct Reading Sampling Equipment Collection Media
 Equipment's Serial Number Collector/Lot Number
 Calibrator and Calibrator's Serial Number Description

Sample Time/Volume (24 Hours 00:00-24:00)

Flow Rate (L/min) and Air Volume (L)

Start Time	Stop Time	Run Time (min)	Initial	Final
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	Average (L/min)	Air Volume (L)
<input type="text"/>	<input type="text"/>	Exposure Time (min)	Environmental Conditions	
<input type="text"/>	<input type="text"/>	<input type="text"/>	Temperature <input type="text"/> (F/C)	Pressure <input type="text"/> (MMHG/KPA)
<input type="text"/>	<input type="text"/>	<input type="text"/>	Humidity <input type="text"/> %	Wind Speed <input type="text"/> (MPH/KM/H/KNOTS)
<input type="text"/>	<input type="text"/>	<input type="text"/>	Wind Direction <input type="text"/>	

Notes

GO-1055 (1-08)

COMPANY CORE PLAN

JOB SITE SAFETY PLAN
SECTION 7

Workplace Exposure Monitoring Record

Noise Sampling Parameters/Methodology		Noise Results	
Response Rate _____ (SLOW/FAST)		For Monitoring Time Period _____ dBA	Dose (D), % _____ %ADD
Exchange Rate _____ (3, 4, 5)	Criterion Level _____ (90/85)	Maximum _____ dBA	Reference Duration (T) _____
dB Lower Limit _____	dB Upper Limit _____	Impulse/Min _____	Sound level (Lavg), dBA _____
Exposed during non-sampled period <input type="checkbox"/> Yes <input type="checkbox"/> No		Impulse Count _____	TWA (8 hr. equivalent) _____

Substance/Agent Sampled/Results

Substance	> <	Concentration	Units	TWA/STEL	Non-Sampled Concentration

Controls _____

Tasks _____

Some Common Codes This does not include all codes. (See Chevron Guidance for Occupational Hygiene Exposure Assessment, Prevention and Control), or Medgate Industrial Hygiene database for all codes.

Sample Type	T/S/C/E	Operation Status	Sampling Strategy	PPE
Personal	TWA	C = Construction	AC = Aggressive Clearance	39 = Safety Glasses
Area	TW10	EM = Equipment Malfunction	CC = Concern – Community	18 = Face Shield
Source	TW12	EU = Emergency Upset	CE = Concern – Employee	20 = Goggles
Blank	STEL	I = Idle or Standby	CN = Concern – Other	56 = Welding Mask
Spike	CEIL	N = Normal	CO = Compliance	49 = No Eye Protection Worn
Bulk	EXCR	Q = Shutdown-planned	EP = Engr Control/Process or Work Practice	12 = Ear Caps
Wipe	BULK	S = Start-up	MC = Sampling Method Comparison	13 = Ear Muffs
Duplicate		TI = Turnaround/Inspection	NC = Non-Aggressive Clearance	14 = Ear Plugs
Media Blank		U = Unknown	P = Planned Special Exposure	15 = Ear Plugs and Muffs
			PE = Periodic Sample	31 = No Ear Protection Worn
			RS = Reg. Side-by-Side Sample	01 = Resp. Air Purifying Full Face
			SD = Shutdown Work Sample	02 = Resp. Air Purifying Half Face
			TSCA = TSCA Allegation	
			W = Worst Case Sample	
Equipment		Collection Media	Substance Groups (Medgate)	05 = Resp. Supplied Air Full Face – Demand
38 = Sound Level Meter		2 = Charcoal Tube	Asphalt Fumes (ASPH FUME)	37 = Resp. SCBA w/ Escape Bottle
		4 = Silica Tube	Benzene, Toluene, Ethylbenzene and Xylene (BTEX)	41 = Resp. SCBA – Pressure Demand (Pos. Pres)
40 = Noise Dosimeter		6 = Other Tube	Hydrocracker Catalyst Dust (CAT-HYDRO)	42 = Resp. Single Use Dust Mask
56 = High Flow Pump		16 = Glass Fiber filter	Crude Oil	50 = Gloves – Chemically Resistant
64 = Low Flow Pump		22 = MCE filter	Gasoline	51 = Gloves – Abrasion Resistant
69 = Passive Sampler OV		24 = MCE + cowl (asbestos)	Welding Fumes Scan	52 = No Gloves Worn
		26 = PVC filter	Inorganic Acids	54 = Slicker Suit
		28 = PTFE filter		55 = Disposable Tyvek
		20 = Other filter		
		18 = Glass Fiber + IOM sampler		
		8 = PVC filter + Cyclone		

CLEANUP PROCEDURES

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CLEANUP PROCEDURES

Before Beginning the Cleanup

Federal and State OSC's must be advised of cleanup plans prior to the start of any shoreline cleanup operation.

During the cleanup and restoration of oiled beaches it is the duty of the Incident Commander to ensure that all cleanup personnel adhere to the following Company safety policies:

- Personnel must be instructed adequately regarding their duties and about the associated potential health and safety risks (complete and review Job Site Safety Plan)
- Personnel must have the required HAZWOPER certification
- Personnel must be suitably protected from hazards by personal protective equipment and gear
- Hazardous materials must be properly labeled
- Personnel must be suitably clothed for protection from adverse weather conditions
- Heavy equipment must be operated by experienced contractors
- Cleanup personnel must avoid any affected wildlife and must contact the Environmental Specialist and the Wildlife Care Liaison to deal with the wildlife

NOTE: It is generally against the law to disturb or even touch many wildlife or birds. To avoid complications and insure a smooth cleanup operation, it is important that all contact with wildlife must be coordinated through the Environmental Specialist and the Wildlife Care Liaison.

CLEANUP PROCEDURES FOR SAND BEACHES

Timing is a main factor influencing efficient cleanup of sand beaches. Oil soaked sand must be picked up during a receding high tide. Solid oil usually can be picked up without beach sand adhering to it if temperatures stay below 75°F. At mid-day, when temperatures normally reach this range, the solids will melt; the result is a 50 percent oil, 50 percent beach sand mixture when the oil is either raked or shoveled.

The entire beach area impacted by the spill should be inspected to determine which areas need cleaning. Select two adjacent areas approximately 1,500 feet long. 1,500 foot sections are necessary to permit motorized equipment maneuverability and to allow the most efficient use of equipment.

City officials, police and lifeguards in the area should be notified. Their assistance should be requested to close areas of the beach and parking lots. Request permission from officials to use parking lots as transfer stations where necessary.

Determine the scope of the cleanup work and develop a cleanup plan. Determine proper cleaning methods, including the best use of motorized equipment and manual labor crews. If the oil spill is small and discing-in seems appropriate, solicit the review and approval of the appropriate government officials before any discing-in operation. If the discing-in method is not appropriate

COMPANY CORE PLAN**SECTION 8
CLEANUP PROCEDURES**

or is not approved, the oily sand will have to be removed and transported for recovery, recycling, treatment and/or disposal.

Small Spills/Final Cleanup**Discing-In Cleanup Method**

For small spills of very light oil or for a "discing-in" of the oil, the oil is not removed, but buried into the top layer of sediments and left to degrade naturally. The oil is disced into the sand using a tracked loader or a tractor towing a discer.

Medium Size Spills**Manual Labor Beach Cleanup****Equipment and Personnel for Two Crews:**

2 980-sized front-end loaders with operators (one for each crew)

8 Laborers with shovels and brooms (4 for ea. crew)

1 Foreman (supervises both crews)

1 5-cubic-yard dump truck (supports both crews)

Each crew of four laborers should break into two teams of two persons. Two teams are then assigned to each loader. The teams should start working about 10 feet apart, in front of the loader. Each team should work toward the other, raking, shoveling and sweeping oil solids into the loader bucket. When the loader buckets are full, they will unload into the dump truck.

Charts should be kept on quantity of oil, location, crew size, equipment, crew work period, wind, high/low tide times and temperature on a daily basis. This information can be used by persons in charge of cleanup to forecast an increase or decrease in oil recovery activities. The quantity of oil recovered each day should decrease until small solids can be raked and mixed with the sand.

Large Spills**Heavy Equipment Beach Cleanup**

If oil contamination is extensive, the use of heavy earth moving equipment is far more efficient than manual labor. Beach restoration may include one or more of the following types of operations:

- Earth moving equipment for sandy beaches, such as graders, elevating scrapers, front-endloaders, unloading ramps and conveyors, hauling trucks to remove oil-contaminated sand and/or other contaminated debris

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- Application of free sorbents into the oil-contaminated material and subsequent recovery of the sorbent mixture. Sorbents can be used on both land and water areas (However, sorbents may interfere with mechanical cleaning equipment)
- Vacuum trucks to remove pools of oil and contaminated water
- Use of high pressure flushing (hydroblasting) or steam and hot water cleaning to remove oil from contaminated surfaces such as retaining walls, rocks, structures, etc

Each option mentioned above is described below in detail.

Motorized Graders

Motorized graders can be used on firmly packed beaches, between the high and low tide zones. They are primarily used on sand and gravel beaches where oil penetration is less than one inch and trafficability of the beach is good. They are used to scrape a thin layer of contaminated sand from a swath as wide as the blade, diverting it into a windrow for easy pickup.

Motorized Elevating Scrapers

Motorized elevating scrapers are used to pick up and haul material short distances, then dump and spread. They are equipped with self-loading elevators that pick up the cut material and dump it into a hopper. Alone, they are used primarily on sand beaches where oil penetration exceeds one inch. When it is part of a larger detail, the motorized elevating scraper is used to pick up windrows left by a motorized grader.

Front-End Loaders

Front-end loaders are designed for digging, loading and limited transport of material. The front loader (bucket) may carry by any type tractor, crawler tractor and four wheel-drive or two-wheel-drive rubber-tired tractors. Crawler tractors and four-wheel-drive tractors are used for heavy service and two wheel-drive models for lighter work. Front-end loaders can be used on mud, sand, or gravel beaches where trafficability is poor and oil penetration is light to moderate.

Front-end loaders should be used only for loading trucks with material from stockpiles or from windrows formed by motorized graders. Their operations on oil-contaminated beach areas should be kept to a minimum, especially in the case of crawler-tractor-mounted front-end loaders.

Front-end loaders equipped with slot buckets can be used for removing large quantities of oil-contaminated debris, such as kelp and driftwood. Slot buckets also allow loose sand to fall away through the slots.

Unloading Ramp and Conveyors

An unloading ramp and conveyor system is a method of transferring beach material picked up by motorized elevating scrapers directly into trucks. The system also includes a screen to separate oil-soaked debris from the oil-sand mixture.

The unloading ramp and conveyor system can be used in large beach restoration operations.

There are two basic types of unloading ramps and conveyor systems: pit-type systems and the berm-type systems.

The *pit-type system*, as its name implies, consists of a pit dug in the sand or earth. The input end of the conveyor is located at the bottom of the pit and the hopper is suspended above it. Railroad ties are used to stabilize the rim of the pit. Railroad rails are welded to bearing plates and laid across the pit to bridge the gap. Ties are spiked down with timber spikes and the rails are bolted to the ties.

The *berm-type system* is very similar to the pit-type system, except that, instead of a hole dug into the ground, earthen berms are constructed in a rectangle, so that a pit is formed in the center of the rectangle. This requires moving approximately 100 cubic yards of material, which may be found on site or brought in. As in the pit-type system, the tops of the berms are reinforced with railroad ties.

It is essential that the entire bridging system be strong enough to support all anticipated loads, with an adequate safety factor. The bridging system includes railroad rails, bearing plates, welds, supporting railroad ties, timber spikes and the earthworks underneath. **DO NOT GUESS!** It is the responsibility of the on-site supervisor to insure that good engineering practices, including proper welding techniques, are followed in the construction of the bridging system in order to avoid accidents and injuries.

Hauling Trucks

All trucks are to be lined with pre-cut polyethylene sheets (minimum thickness 6 mil) before sand loading, to prevent oil from leaking onto the streets. Use new liners for each load. Tarpaulin covers can be used to minimize blowing or spilling of loads. Decontamination of the truck tires with pressure hoses may be required before trucks leave the transfer locations to avoid tracking heavy oil onto streets and roads.

Loose Sorbents

Sorbents are a class of chemicals which immobilize oil residues into a solid or semisolid mass to allow for improved pickup and handling. Their use is limited to specially trained crews. Sorbents may either be loose, i.e., spread as powders or liquids, or bound, i.e., incorporated into blankets or sheets and applied during deployment of the sheets. Permits and specialized training are generally required for the use of either type of sorbent.

Vacuum Trucks

Vacuum trucks can only perform simple vacuum lifting of oil/water admixtures; they cannot filter or separate the components and must discharge directly into a liquid waste transfer station when full.

High Pressure Flushing (Hydroblasting)

Hydroblasting is the most efficient method of removing oil from contaminated surfaces such as retaining walls, rocks and structures. Proper steps should be taken to contain the run-off water and oil in areas protected by booms. Hydroblasting uses a high pressure water jet that removes oil from almost any surface. Hydroblasting is a non-heated process.

Steam and Hot Water Cleaning

A variation on hydroblasting, in which the water is heated, is known as Steam and Hot Water Cleaning. Steam and Hot Water Cleaning is another efficient method of removing oil from almost any surface. The steam raises the temperature of the adhered oil, lowering its viscosity and allowing it to flow off a surface. Specially trained personnel are required for the use of Steam and Hot Water Cleaning methods.

State Parks and Wildlife Department and/or U.S. Department of Fish and Game approval is required prior to the use of steam or hot water. Prior to the use of steam or hot water cleaning, qualified personnel should inspect contaminated surfaces for biological activity. In many instances, cleaning these surfaces will remove attached plant and animal life. Several years may be required to re-colonize the area with these forms, so trade-offs may need to be made.

Water Flooding

Water flooding is a cleanup and restoration technique that should be considered for use on shoreline areas that have limited access for heavy equipment. High volume, low pressure water has been successfully used to move oil stranded on beaches back into the water (behind containment booms) or into collection trenches where it can be contained, concentrated and removed. Typically, this technique works most effectively on fine grained sediment shorelines where the oil has not penetrated to appreciable depths. Where penetration has occurred, significant amounts of oil can still be recovered, although the process will not be as complete and residual material will remain. Heating of the flood water has been successful in increasing the recovery effectiveness in some cases.

Water is pumped with a portable pump through a flexible, perforated discharge hose located above the oil. The oil-water mixture is washed down the beach and can be recovered from collection trenches or from the water surface using booms and skimmers and vacuum equipment.

For coarse-grained beaches, the flooding system can be supplemented with low to moderate volume agitation hoses to enhance removal. The agitation hoses are used by cleanup crew members, who spray them back and forth to keep the oil moving.

Bioremediation

Bioremediation is a technique for beach treatment which uses biologically active agents, such as genetically-engineered microorganisms, to accelerate the degradation of the oil. Formal application to various agencies must be obtained for their use and specially trained crews will be required to do the work.

Manual Labor

Site-specific and incident-specific conditions will determine the best use of motorized equipment during beach cleanup and restoration. Manual labor should generally be used to supplement motorized cleanup and restoration activities, although in some cases it may be the only method of cleanup. Tasks to be performed by manual labor crews include:

- Sorbent application
- Removal of oiled materials
- Collection of oil using hand tools
- Sorbent and bagged waste collection
- Temporary storage area maintenance
- Cleaning of hauling vehicles
- High pressure flushing, steam cleaning and water flooding operations

Timing

Timing is the key element to efficient sand shoreline cleanup. The plan's schedule will be controlled by the times of receding tides. Maximum advantage should be taken of receding tide time to remove oil-contaminated soil from the shore line and move the recovered material to nearby transfer locations. Operating on a rising tide can cause new contamination to be deposited onto cleaned areas, resulting in extra work. In addition, there may be safety concerns associated with rising tides.

The distance the tides rise and recede can vary from day to day and even from one tide to the next. Tidal elevations are changing constantly, but the change is so slow near high and low tide that they will generally appear to be constant. However, it is extremely important to check tide tables very carefully. During some months tides can rise and fall as much as 9 feet in a single tidal cycle.

To take advantage of receding tides, beach cleanup may be continued at night. In populated areas, measures must be taken to reduce machinery and other noise, especially between the hours of 10 PM and 6 AM. Every reasonable effort should be employed to minimize adverse effects on the areas residents in implementing the cleanup operations, while holding the total cleanup time to a minimum.

Oil-contaminated soil will be deposited in piles at transfer locations and loaded onto waiting trucks by rubber-tired front-end loaders. At each transfer location, a loader and at least two dump trucks, or the equivalent, will be needed to handle the contaminated soil removal. Additional trucks may be required depending on the weather and traffic conditions.

A suitable combination of waste recovery, recycling, treatment and/or disposal will be chosen by the Waste Disposal Leader upon completion of cleanup operations. Oil and water mixtures removed by skimming or by vacuum trucks will be loaded for potential processing in the refinery separator system, including recovery, recycling, treatment and/or disposal.

Removal of contaminated soil from the transfer locations must be handled quickly and safely, but in such a manner as not to interfere with oil removal from the beach during receding tide periods. Cleanup operations may span several tide cycles. During cleanup, shortage of waste storage room at transfer sites may occur. If so, extra attention must be paid to coordinating the movements of the vehicles depositing and removing material at the transfer stations, in order to minimize backups and bottlenecks.

Security and Traffic Control

The proper handling of people and traffic and the restriction of outsiders from the cleanup area, are vital aspects of the Contingency Response Plan. Proper deployment of security guards and control of traffic flow should be a high priority or the whole operation may come to a standstill. Ultimate responsibility for the welfare and security of the people of the area rests with local officials.

Wildlife Protection and Rehabilitation

Environmentally sensitive areas and strategies are identified in the State Appendix Plan.

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PERSONNEL AND EQUIPMENT REQUIREMENTS FOR SHORELINE CLEANUP OPERATIONS

Type of Cleanup Operation	Number & Type of Equipment Required per Mile of Beach	Personnel Required	Other Support
Heavy Equipment: Sandy Beach	1 - Motor Grader 1 - Tracked Front-End Loader 2 - 20 cu yd Elevating Scrapers	1 Operator for each piece of equipment & 1 Supervisor	1 temporary dump site needed for every 2 miles of beach.
Heavy Equipment: Gravel/Cobble Beach - Trafficable for Rubber-Tired Equipment	1 - Motor Grader 3 - Rubber-Tired Front-End Loaders 1 - Tracked Front-End Loader	1 Operator for each piece of equipment & 1 Supervisor	1 temporary dump site needed for every 2 miles of beach.
Heavy Equipment: Gravel/Cobble Beach - Poor - Trafficability	1 - Angle-Blade Bulldozer 4 - Tracked Front-End Loaders	1 Operator for each piece of equipment & 1 Supervisor	1 temporary dump site needed for every 2 miles of beach.
Light Equipment: Boulder & Rock Beaches	Equipment per cleaning site 1 - Hydroblaster 1 - Skid-Mounted Vacuum System & 100 ft of boom	2 people 1 person	Fresh water supply for hydroblaster. Storage for collected oil.
Light Equipment: Human-made Structures & Sea Walls	1 - Steam Cleaner + 100 ft of Boom 1 - Vacuum Truck	2 people 1 person	Fresh water supply for steam cleaner.
Hand Cleanup: Shoreline & Marsh	Rakes, shovels, absorbents, machetes	2 to 10 people per 100 ft of shoreline	Debris boxes or empty barrels.
* Requirements based on a 100-ft wide strip of beach that is 25 to 50 per cent contaminated with oil.			

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PROCEDURES

Cleanup Techniques

Cleanup Techniques			
Cleanup Technique	Description	Primary Use of Cleanup Technique	Technique Requirements
Mechanical Removal			
A) Motor Grader/Elevating Scraper	Motor grader forms windrows for pickup by elevating scraper.	Used primarily on sand and gravel beaches where oil penetration is 0 to 1 inch and trafficability of beach is good. Can also be used on mudflats.	Good trafficability. Heavy equipment access.
B) Elevating Scraper	Elevating scraper picks up contaminated materials directly off beach.	Used on sand and gravel beaches where oil penetration is 0 to 1 inch. Can also be used on mudflats. Can be used to remove tar balls or flat patties from the surface of a beach.	Fair to good trafficability. Heavy equipment access.
C) Motor Grader/Front-End Loader	Motor grader forms windrows for pickup by front-end loader.	Used on gravel and sand beaches where oil penetration is less than 0.5 to 1 inch. This method is slower than using a motor grader and elevating scraper but can be used when elevating scrapers are not available. Can be used on mudflats.	Good trafficability. Heavy equipment access.
D) Bulldozer/ Rubber-Tired Front-End Loader	Bulldozer pushes contaminated substrate into piles for pickup by front-end loader.	Used on coarse sand, gravel, or beaches where oil penetration is deep, oil contamination is extensive and beach trafficability is poor. Can also be used to remove heavily oil-contaminated vegetation.	Heavy equipment access. Fair to good trafficability for front-end loader.
E) Backhoe	Operates from top of a bank or beach to remove contaminated sediments and loads debris into trucks.	Used to remove oil-contaminated sediment (primarily mud or silt) on steep banks.	Heavy equipment access. Stable substrate at top of bank.
F) Front- End Loader: Rubber-Tired or Tracked	Front-end loader picks up material directly off beach & hauls it to unloading area.	Used on mud, sand, or gravel beaches when oil penetration is moderate and oil contamination is light to moderate. Rubber-tired front-end loaders are preferred because they are faster and minimize the disturbance to the surface. Front-end loaders are the preferred choice for removing cobble sediments. If rubber-tired loader cannot operate, tracked loaders are the next choice. Can also be used to remove extensively oil-contaminated vegetation.	Fair to good trafficability for rubber-tired loader. Heavy equipment access.
G) Dragline or Clamshell	Operates from top of contaminated area to remove oiled sediments.	Used on sand, gravel, or cobble beaches where trafficability is very poor (tracked equipment cannot operate) & oil contamination is extensive.	Heavy equipment access. Equipment reach covers contaminated areas.

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CLEANUP PROCEDURES

Cleanup Techniques			
Cleanup Technique	Description	Primary Use of Cleanup Technique	Technique Requirements
H) Beach Cleaner	Picks up debris & small objects from surface of substrate.	Used to remove tar balls or flat patties from surface of beach. Can also remove small quantities of contaminated debris.	Light vehicular access. Fair to good trafficability.
Hydroblasting, Steam Cleaning, & Sand Blasting			
A) High Pressure Flushing (Hydroblasting)	High pressure water streams remove oil from substrate where it is channeled to the recovery area.	Used to remove oil coatings from boulders, rock and human-made structures. Preferred method of removing oil from these surfaces.	Light vehicular access. Recovery equipment. Wildlife agency approval.
B) Steam Cleaning	Steam Removes oil from substrate where it is channeled to the recovery area.	Used to remove oil coatings from boulders, rock and human-made structures.	Light vehicular access Recovery equipment. Fresh water supply. Wildlife agency approval.
C). Sandblasting	Sand moving at high velocity removes oil from substrate.	Used to remove thin accumulations of oil residue from human-made structures.	Light vehicular access. Oil must be semi-solid. Need supply of clean sand.
Manual Removal	Oiled sediments & debris are removed by hand with shovels, rakes, wheelbarrows, etc.	Used on mud, sand, gravel and cooble beaches when oil contamination is light or sporadic with slight oil penetration or on beaches which are inaccessible to heavy equipment.	Foot or light vehicular access.
Low-Pressure Flushing	Low pressure water spray flushes oil from substrate where it is channeled to recovery points.	Used to flush light oils that are not sticky from lightly contaminated mud substrates, cobbles, boulders rock and human-made structures, & vegetation.	Light vehicular access Recovery equipment.
Sorbent Recovery	Sorbents manually to contaminated areas to soak up oil.	Used to remove pools of light, nonsticky oil from mud, boulders, rock and human-made structures.	Foot or boat access. Disposal containers for sorbents.
Vegetation Cutting and Removal	Oiled vegetation is cut by hand, collected, & stuffed into bags or containers for disposal.	Used on oil contaminated vegetation.	Foot or boat access. Cutting tools. Disposal containers.
On-Site Burning	Upwind end of contaminated area is ignited & allowed to burn to the down-wind end.	Used on any substrate or vegetation where sufficient oil has collected to sustain ignition. Used only if oil is a type that supports ignition and air pollution regulations allow it.	Light vehicular or boat access. Fire control equipment. Approval of air pollution agency.

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Cleanup Techniques			
Cleanup Technique	Description	Primary Use of Cleanup Technique	Technique Requirements
Vacuum Trucks, Vacuum Pump, or Portable Skimmer	Oil collects in sump or behind booms as it moves down the beach & is removed by pump, vacuum truck, or portable skimmers.	Used on firm sand or mud beaches in the event of continuing oil contamination where sufficient longshore currents exist. Also used on streams & rivers in conjunction with diversion booming.	Heavy equipment access. Presence/absence of longshore current.
Oil Mop	Various size units to be used onshore or with boats in water with little or no currents.	Used to recover oil from natural or artificial containment.	Boat or light vehicle access. Little or no current.
Assisted Natural Recovery			
A) Push Contaminated Substrate into Surf	Pavement Bulldozer pushes contaminated substrate into surf zone to accelerate oil dispersion.	Used on contaminated cobble & lightly contaminated gravel beaches where removal of sediments may cause erosion of the beach or backshore area.	Heavy equipment access. High energy shoreline.
B) Disc into Substrate	Tractor pulls discing equipment along contaminated area.	Used on non-recreational sand or gravel beaches that are lightly contaminated.	Heavy equipment access. Fair to good trafficability. High energy environment.
C) Breaking up	Tractor fitted with a ripper is operated up and down the beach.	Used on 1) low amenity cobble, gravel, or sand beaches, 2) beaches where substrate removal will cause erosion or 3) where thick layers of oil have created a pavement on the beach surface.	Heavy equipment access. High energy environment.
Substrate & Groundwater Contamination Description			
A) Removal by Excavation	Contaminated soil is excavated and replaced with clean soil.	Used on contaminated soils when drinking water wells are threatened & contamination does not exceed 20 to 30 feet.	Heavy excavation equipment access. Clean soil.
B) Recovery of Oil from Groundwater	Contaminated oil is pumped out.	Used on contaminated groundwater via recovery wells or by trenching.	Heavy equipment access.
C) In-Situ Treatment	Contaminated substrate is tilled into the ground or inorganic fertilizers are applied.	Used on contaminated soils where groundwater is not threatened or has been cleaned.	Heavy equipment access.
Natural Recovery	No action is taken. Oil is left to degrade naturally.	Used for oil contamination on high energy beaches (primarily cobble, boulder, & rock) where wave action will remove most oil contamination in a short period of time.	Exposed high-energy environment.

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CLEANUP PROCEDURES**

Cleanup Techniques			
Cleanup Technique	Description	Primary Use of Cleanup Technique	Technique Requirements
Bioremediation	Nutrients and/or micro-organisms are applied to accelerate the degradation of the oil.	May be used on rocky or sandy beaches, in marshlands, or on pooled oils.	Formal application for use must be obtained.

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Marsh Cleaning Techniques

Marsh Cleaning Techniques	Situations for Use of Techniques	Equipment Required	Environmental Impact of Technique
Low-Pressure Water Flushing	Preferred method: Use in small channels around clumps of plants & trees and on vegetation along channel banks & the shoreline.	Small boat Small gasoline-driven pump Intake & discharge hoses Small floater skimmer Portable storage tanks Light curtain boom	Minimal impact if flushing is done from land, some marsh vegetation may be crushed.
Sorbents: Loose Sorbents, Pads or Rolls	Loose Sorbents: Use in small channels or pools with low currents. Pads or Rolls: Use in shallow pools and on shorelines without debris accumulations	Empty barrels for storing recovered sorbent. Industrial vacuum cleaner or nets for picking up loose sorbent. Can also be herded with water spray.	Loose sorbents are difficult to retrieve. Retrieval can crush marsh grasses.
Oil Mop	Preferred method: Use in open channels or pools with free-floating oil. Use upstream from containment boom and along marsh shorelines.	Oil Mop System Portable storage tanks for recovered oil. Pulleys.	Minimal Impact
Vegetation Cutting and Removal (Note: Use only when flushing fails to remove oil from plants)	Hand cutting of vegetation in small channels. Mechanical cutting along banks of channels or shoreline.	Hand cutting: Shears, power brush cutters or sickles. Mechanical cutting: Weed harvester.	Damages marsh surface. Foot traffic damages plants.
On-Site Burning For use on spartina-type (grass-like) marshes only.	Use in large contaminated areas. Can use if oil will burn. Probably suitable when marsh is in die-back stage.	Portable propane flame throwers or weed burners.	Produces considerable air pollution. Requires local approval by government agencies. Marsh areas not contaminated by oil are subject to damage by fire.

CASCADING BOOM CONTAINMENT

A large oil slick may be contained by using cascading boom deflection to concentrate the oil into a collection point. This method of containment will require two boats on each open segment of boom deployed, as the booms must be constantly maneuvered to ensure that the oil slick stays within the containment area.

RIVER CONTAINMENT BOOM

Containment booming of a narrow or shallow river channel can be accomplished without a boat. The boom can be positioned by hand or by using a motor vehicle (if the shoreline allows) to position the boom. Light duty boom or absorbent boom would be required for this procedure.

DOUBLE BOOMING OF NARROW CHANNELS

Protection of a narrow inlet or channel can be accomplished by utilizing a double string of boom across the entire width of the channel. The first string of boom will contain most of the oil slick and the second string of boom should contain any oil escaping the first boom. This booming technique is best accomplished by using an absorbent boom as the second boom. This booming technique is most effective in channels having weak currents.

An emergency sorbent boom can be quickly constructed from readily available materials purchased at the local farm supply.

Hay or straw bales, placed end to end and secured with a roll of chicken mesh will make an effective (although cumbersome) sorbent boom for still or slowly running waters. This type of sorbent is cost effective and will absorb approximately five times its own weight. This boom must be constructed close to the water's edge, so that it can be fed into the water as it is assembled. Do not place over three bales in the mesh before feeding the boom into the water. The bales will provide flotation for a few days until they gradually absorb water and oil and eventually will sink if not recovered. As the bales sink, they expose fresh material at the surface capable of absorbing more oil. It is important to monitor the boom and remove it before it gets too wet (and heavy) in order to be able to recover it without special equipment.

Recovery is accomplished by reversing the launch/construct procedure, pulling the boom ashore, a few bales at a time and disassembling that portion before pulling more ashore. This should be done on a double layer of 6 mil polyethylene to avoid contamination of the shore. The contaminated bales should be handled as oily waste material and its disposal procedures handled like spent absorbent material.

CAUTION! While the bales are an effective absorbent, small amounts of oil can be released as the boom is pulled ashore. A secondary boom should be in place during recovery.

Clean new bales can be placed in the mesh to renew the assembly, if required.

Other types of sorbents include: foamed plastic, cotton waste, talc and dried volcanic rock. When sorbents are used, plan on using a lot of manual labor to recover the sorbent.

Sorbents may also be used with brooms, however, if the current or wind is high, oil sorbent will go over the top of the boom or may sweep under if the current is greater than 1 fps. The effects of the current can be countered by angling the boom to divert spillage to a quieter area. The angle becomes sharper as the current increases.

If straw or similar type of material is used, use a mulcher to spread the material. If straw is dumped, it tends to remain in large clumps even if there is wave action.

Nets may be more effective than booms for containing relatively small quantities of stringy material such as bark, hay and shredded foam. With a 1" net, velocities of 2 to 3 fps are possible without product loss for small quantities of sorbent. For large quantities, the velocity will probably be limited to 1 to 2 fps without failure.

Other sorbents are available, however they should be checked to be sure they will not cause environmental damage before being used.

PROBABLE DIRECTION AND RATE OF MOVEMENT FOR UNAUTHORIZED DISCHARGES

For spills on water, oil will move in the direction of the wind and at a rate equal to approximately 3% of the wind velocity.

The water current will determine where the oil reaches the surface and will therefore determine where a boom should be placed. Large globules >1" in diameter, will rise approximately 1 foot per second (fps), while smaller droplets will rise at a rate of approximately 1.5" fps. With a stream current of 1 knot and a depth of 20 feet, oil would rise approximately 30 feet downstream of the source.

In the event of groundwater contamination, existing water wells or perennial streams can be helpful for determining the direction of the flow.

ESTIMATING SPILL VOLUME

SECTION 9 ESTIMATING SPILL VOLUME

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ESTIMATING SPILL VOLUME

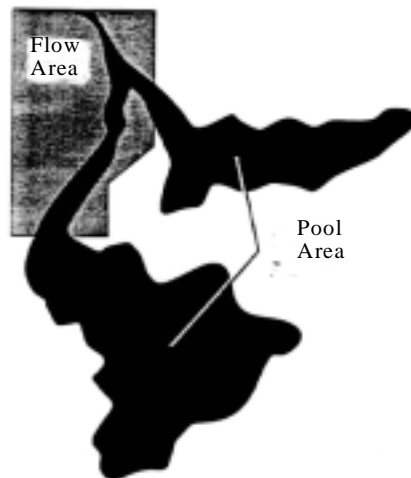
Oil spills on land are often as difficult to size as those offshore. A reasonably close estimate can be obtained by determining the area covered, average depth and average penetration into the soil. This process should be completed within 4 hours of discovery or, if daylight is necessary, within 3 hours after sunrise.

Classifying the Areas

The surface of spilled oil is usually so irregular that it is extremely difficult to estimate the area covered. The problem can be simplified if the spill area is first separately divided into two main types of areas:

- Flow Areas: Area coated by oil flow with little or no penetration.
- Pooling Areas: Area where oil has pooled after flowing, allowing penetration to occur.

If the pool of oil has water underneath, the depth of oil should be reduced accordingly.



Converting Irregular Shapes (Simpson's Rule)

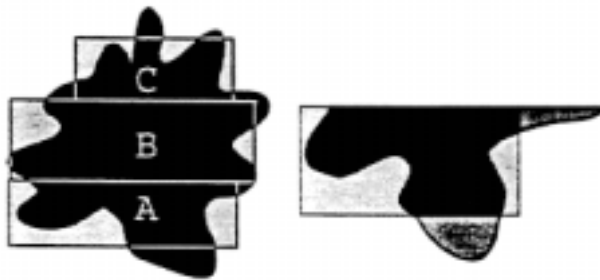
In order to estimate the area of an irregular shape, the shapes can be converted into a series of rectangles that approximate the area of the irregular shape, with about the same amount of spill area outside of the rectangle as there is dry area inside the rectangle. This can be done by stretching a steel tape along the ground outside the spill area. The area can then be quickly estimated by multiplying the length of the sides.

Area "A" 70' x 20' = 1400 square feet

Area "B" 60' x 10' = 600 square feet

Area "C" 35' x 20' = 700 square feet 2700 square feet total

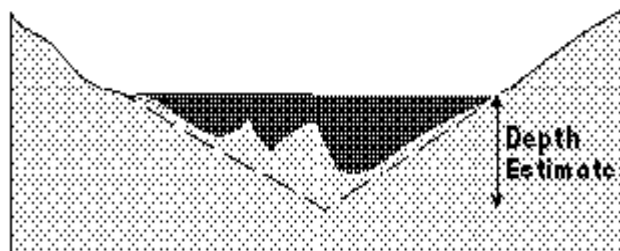
The more rectangles you use, the more accurate your estimate becomes.



Estimating The Average Depth

The next task is to estimate the average depth of oil in each of the areas. The oil will vary from very shallow at the edge to whatever depth the terrain is at the lowest point. This can be determined by "gauging" with a stick if it is shallow or accessible. If the pool is wider, you can heave a large stone into the pool to confirm depth. A good estimate can usually be made by observing the slope of the ground around the pool and assuming that the slope continues under the surface of the oil.

If you estimate that the deepest point in Area "A" is 20" and Area "A" has three boundaries of "shore", divide the depth figure by three to obtain average depth. If it has two "shore" boundaries, like Area "B", divide the depth by two to obtain average area depth.



Obtaining the Free Oil Volume

The irregular shaped area with unseen bottom has now been reduced to a familiar shape. The volume of free oil in Area "A" is:

Area "A": $70' \times 20' = 1400$ square Feet

Average depth = 20" " 3 – 7"

7 inches " 12 inches per foot = 0.6 foot

Area "A" Volume = 1400 square feet \times 0.6 ft

Area "A" Volume – 840 cubic feet

The total volume would be the sum of Areas "A", "B", & "C".

Converting to Gallons and Barrels

Each cubic foot is equivalent to 7.5 gallons.

840 cu. ft. \times 7.5 gallons/cubic ft. = 6300 gal

Each U.S. Barrel is 42 gallons:

$6300 \div 42$ gallons/barrel = 150 barrels of oil.

Considering Penetration

Determining how much additional oil has penetrated into the soil can be accurately measured by taking a core sample of the oil covered soil, however, the following rule should suffice for estimates of oil spilled.

For penetration allowance in normal sand or soil, add 5% to the total volume for every foot of average depth. In the case of Area "A", the average depth was 7 inches, or 0.6 foot, so we add 3%.

150 barrels \times 1.03 = 154.5

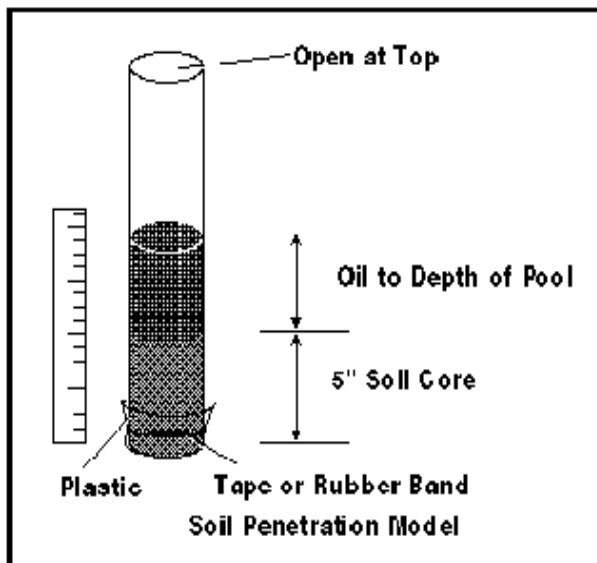
6300 gallons \times 1.03 = 6489 gallons

- Do not add a penetration allowance to areas with slopes that allowed a reasonable flow rate
- Add an allowance for slow flowing areas
- Reduce allowance by half if area is wet from rain

This is a method of estimating the volume of oil in the penetration. In the case above, the oil would penetrate 3" to 6" into the soil.

**ESTIMATING SPILL VOLUME
SECTION 9****COMPANY CORE PLAN VOLUME 1****Precise Penetration Determination**

If more precise determination is required, drive a clear plastic tube about 2" or larger in diameter 6" into the uncontaminated soil adjacent to the spill. Twist and remove with soil core. Seal the bottom of the tube with plastic and tape. Pour free oil into the top of the tube to the depth of the oil in the pool, mark the level and let it set for one hour. Measure how much the oil level has dropped. Observe how deep the oil has penetrated. Retain the model to observe increased penetration with time.



COMPANY CORE PLAN VOLUME 1

ESTIMATING SPILL VOLUME
SECTION 9**Walk Around Method**

If the pool of oil is roughly circular, you can estimate its area by pacing around the pool and counting your paces. Walk as closely to the pool edge as possible. Try to make your paces three feet, or one yard long. If you counted 700 paces, the circumference is 700 paces x 3 ft/pace or 2100 feet. The next step is to guess how much smaller the actual pool is, compared to the circle you walked. If you were pretty close, deduct 10%.



2100 ft x .90 = 1890 ft adjusted circumference.

The diameter (d) of a circle is related to the circumference by the formula:

$C = \pi d$ (where; $\pi = 3.14$)

If the circumference of our circle is 1890 ft., then the diameter is $d = 1890 / \pi = 1890 / 3.14 = 602'$ and the radius is $1/2 d = 602 / 2 = 301'$

The area of the pool is given by the formula:

$$\begin{aligned}\text{Area} &= \pi r^2 \\ A &= 3.14 \times 301 \times 301 \\ &= 284,487 \text{ sq. ft.}\end{aligned}$$

Now you can estimate the average depth by guessing the maximum depth. If we guess the depth from the exposed slope to be 12" at the deepest part, we can divide by four (four sloping sides) to estimate an average depth of 3" or 0.25 feet. The volume is therefore:

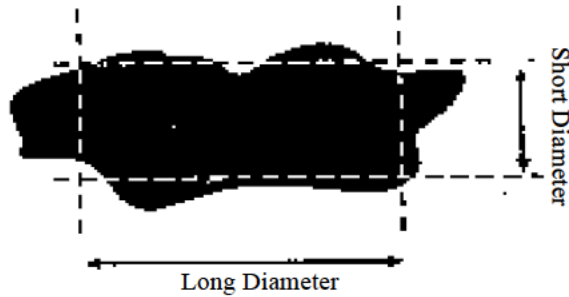
$V = 284,487 \text{ sq. ft.} \times .25 \text{ feet} = 71,122 \text{ cubic ft}$ As before, we know each cubic foot contains ~ 7.5 gallons, therefore $71,122 \text{ cu. ft.} / 7.5 \text{ gallons/cu ft.} = 9,483 \text{ gallons}$

To convert to barrels = $9483 \text{ gallons} / 42 \text{ gallons/barrel} = 226 \text{ barrels}$.

Our average depth was 3" so we can add about one percent for penetration = $226 \times 1.01 = 228 \text{ barrels}$.

Average Diameters

You can also estimate the area of an oval shaped pool by pacing off (3' per step) the width of the "short diameter" and the "long diameter" and averaging them.



First pace off the "short diameter", but stop short to allow for the irregular shape. Repeat the procedure for the "long diameter". Add them together and divide by two to get the "average diameter".

In this example, the "short diameter" was 75 paces or $75 \times 3 = 225$ feet. The "long diameter" was 120 paces, or 360 feet.

The Average Diameter = $(225 + 360) / 2 = 292$ feet and, the radius is $1/2$ the diameter = $292 / 2 = 146$ feet.

$A = \pi r^2 = (3.14) (146) (146) = 66,932$ sq. ft.

The average depth is 3" or .25 feet

The volume is: $V = 66,932$ sq. ft. \times .25 ft. = 16,733 cu. ft.

For Gallons: $16,733 / 7.5 = 2,231$ gallons

For Barrels: $2,231 / 42 = 53$ barrels

Comparison Methods

Sometimes you can estimate area by comparing it to familiar areas, with adjustment for irregular shape. The following table gives the square footage of several familiar areas.

Type	Length	Width	Area
Football field	100 yds	50 yds	5,000 sq. yds.
Basketball court	94 ft.	50 ft.	3,700 sq. ft.
Tennis court	78 ft.	36 ft.	648 sq. ft.
Baseball diamond	90 ft.	90 ft.	810 sq. ft.
Parking space	20 ft.	10 ft.	200 sq. ft.
Office	10 ft.	10 ft.	100 sq. ft.
Service station	700 ft.	250 ft.	175,000 sq. ft.
4-lane intersection	55 ft.	55 ft.	3,025 sq. ft.

Inaccuracies In Estimates

All examples presented offer quick methods of estimating for gross volumes and are generally accurate within 20%, if your assumptions and measuring was accurate within 20%. These accuracies should be sufficient for initial reporting and determining resource requirements. Drills have indicated that all of the estimates generally are within 10% of the others.

Estimating Spill Volume on Water**Purpose**

In the event of a sizable spill, a rough estimate of the spill's total volume provides the Incident Commander with preliminary data to plan and initiate the cleanup response. Generating this estimate early in the spill response aids in determining:

- the equipment and personnel needed
- the amount of oil that may reach shorelines and/or sensitive areas
- the requirements for temporary storage and disposal of recovered materials

This process should be completed within 4 hours of discovery, or if daylight is necessary, within 3 hours of sunrise.

Estimating By Observation

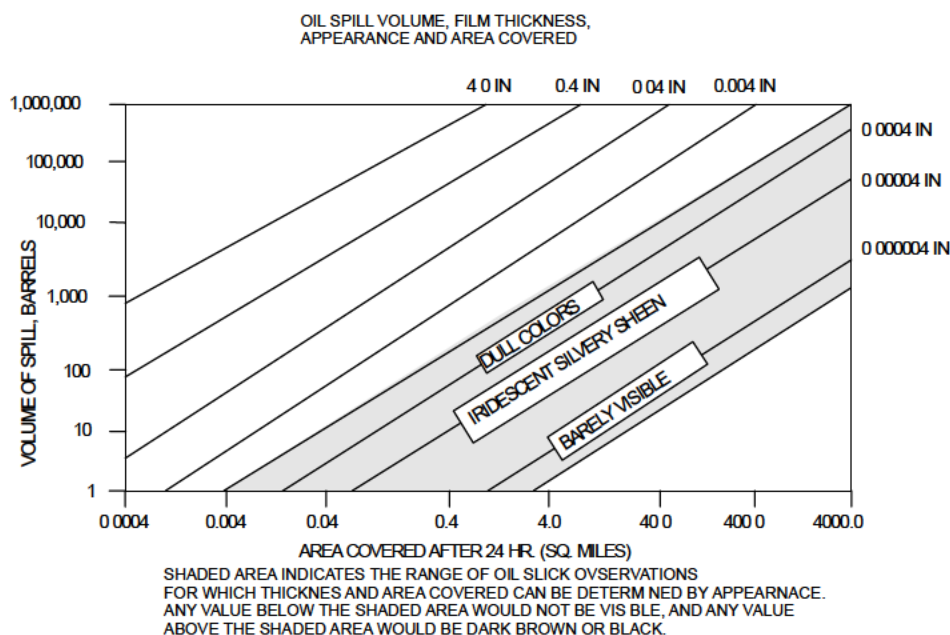
When conditions permit, direct measurements of spill parameters are preferred over visual estimates.

A rough estimate of spill volume can be generated from observations of the oil slick's size and thickness as demonstrated by the following figures.

ESTIMATING SPILL VOLUME

COMPANY CORE PLAN VOLUME 1

SECTION 9



Since oil slick spreading is influenced by the spill volume as well as physical forces, stopping the spill at it's source is critical in controlling the spread of a slick on water. The more conservative the first estimate of the spill volume, the better the chances that response forces will arrive at the spill site prepared with adequate and appropriate equipment. It is preferable to over respond early to a spill, rather than to under respond and risk un-preparedness. To under respond will impede the effectiveness of spill control and cleanup efforts. A slow or poorly prepared initial response can incur more operational costs and increase the risk of damage to marine and shoreline resources and environments. Therefore, properly planning the initial response is critical in a spill situation.

If a release of any type of oil occurs in an urban area, there is a high probability that the oil can enter a municipal storm drain system. If the oil is found to be entering the storm drain system from a curb drain inlet or street drain inlet, block the inlets. Construct sandbag dams in the street to restrict the oil from spreading and to reduce the area that will be required to be cleaned up.

If the oil has already entered the storm drain, remove the closest storm drain manhole cover and determine the flow direction of the system. If the released oil is flowing in the storm drain, continue reconnaissance of the manholes down stream of the release until there is not a show of oil. At this point, dam the storm drain on the down stream side with absorbent material to stop further migration and begin removal of the oil with a vacuum truck. Flush the drain with water beginning at the point the oil entered the system. Continue to flush the drain and recover the oily water until there is no longer a sheen of oil on the water. As disposal of oily material creates additional problems, flush the drain with the minimum amount of water needed to ensure recovery.

T X Ref

A X Ref

CG X Ref

ESTIMATING SPILL VOLUME SECTION 9

COMPANY CORE PLAN VOLUME 1

ESTIMATING SPILL VOLUME BY COLOR AND COVERAGE AREA

Estimating Spill Volume by Color and Coverage

Silvery Sheen					
Width X Length (feet)	Sq. Ft	Thickness (feet)	Cu. Ft.	Gal. Per Cu. Ft.	Gallons Spilled
100 X 500	50,000	0.00000025	0.0125	7.48	0.1
100 X 1,000	100,000	0.00000025	0.0250	7.48	0.2
100 X 2,000	200,000	0.00000025	0.0500	7.48	0.4
200 X 1,000	200,000	0.00000025	0.0500	7.48	0.4
500 X 1,000	500,000	0.00000025	0.1250	7.48	0.9
200 X 2,000	400,000	0.00000025	0.1000	7.48	0.7
200 X 5,000	1,000,000	0.00000025	0.2500	7.48	1.9
500 X 5,000	2,500,000	0.00000025	0.6250	7.48	4.7
500 X 10,000	5,000,000	0.00000025	1.2500	7.48	9.4

Bright Bands of Color (Purple, Blue to Green)					
Width X Length (feet)	Sq. Ft.	Thickness (feet)	Cu. Ft.	Gal. Per Cu. Ft.	Gallons Spilled
100 X 500	50,000	0.000001	0.0500	7.48	0.4
100 X 1,000	100,000	0.000001	0.1000	7.48	0.7
100 X 2,000	200,000	0.000001	0.2000	7.48	1.5
200 X 1,000	200,000	0.000001	0.2000	7.48	1.5
500 X 1,000	500,000	0.000001	0.5000	7.48	3.7
200 X 2,000	400,000	0.000001	0.4000	7.48	3.0
200 X 5,000	1,000,000	0.000001	1.0000	7.48	7.5
500 X 5,000	2,500,000	0.000001	2.5000	7.48	18.7
500 X 10,000	5,000,000	0.000001	5.0000	7.48	37.4

T X Ref

A X Ref

CG X Ref

COMPANY CORE PLAN VOLUME 1**ESTIMATING SPILL VOLUME
SECTION 9**

Trace of Color (Yellow, Bronze, Violet)					
Width X Length (feet)	Sq. Ft.	Thickness (feet)	Cu. Ft.	Gal. Per Cu. Ft	Gallons Spilled
100 x 500	50,000	0.0000005	00.250	7.48	0.2
100 x 1,000	100,000	0.0000005	0.0500	7.48	0.4
100 x 2,000	200,000	0.0000005	0.1000	7.48	0.7
200 x 1,000	200,000	0.0000005	0.1000	7.48	0.7
500 x 1,000	500,000	0.0000005	0.2500	7.48	1.9
200 x 2,000	400,000	0.0000005	0.2000	7.48	1.5
200 x 5,000	1,000,000	0.0000005	0.5000	7.48	3.7
500 x 5,000	2,500,000	0.0000005	1.2500	7.48	9.4
500 x 10,000	5,000,000	0.0000005	2.5000	7.48	18.7

Colors Turning Dull (Brick Red, Turquoise, Pale Yellow)					
Width X Length (feet)	Sq. Ft.	Thicknes (feet)	Cu. Ft.	Gal. per Cu. Ft.	Gallons Spilled
100 x 500	50,000	0.0000033	0.1650	7.48	1.2
100 x 1,000	100,000	0.0000033	0.3300	7.48	2.5
100 x 2,000	200,000	0.0000033	0.6600	7.48	4.9
200 x 1,000	200,000	0.0000033	0.6600	7.48	4.9
500 x 1,000	500,000	0.0000033	1.6500	7.48	12.3
200 x 2,000	400,000	0.0000033	1.3200	7.48	9.9
200 x 5,000	1,000,000	0.0000033	3.3000	7.48	24.7
500 x 5,000	2,500,000	0.0000033	8.2500	7.48	61.7
500 x 10,000	5,000,000	0.0000033	16.500	7.48	123.4

WASTE MANAGEMENT

SECTION 10 WASTE MANAGEMENT

WASTE MANAGEMENT 1

 Overview 1

FACILITY WASTE MANAGEMENT FLOW CHART 2

WASTE MANAGEMENT

Overview

Various Federal and State laws and regulations strictly control waste management health and safety precautions as well as necessary permits. It is the responsibility of the Waste Management Coordinator in coordination with the Environmental Unit Leader to manage necessary waste issues during an incident.

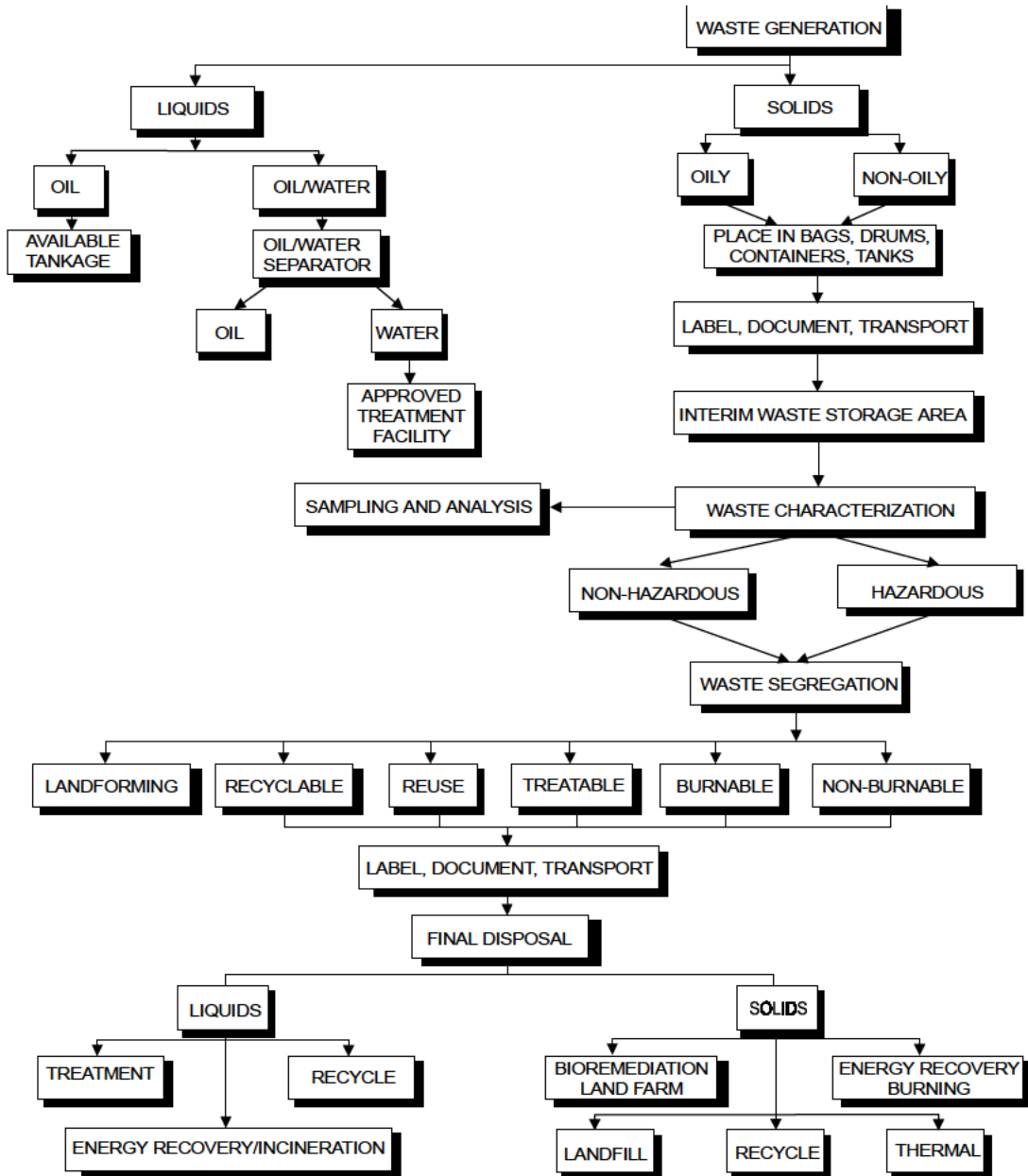
It is important that the Company HES Waste Management Specialist be notified as soon as possible anytime there is a potential for waste management issues. See Section 2 of this Core Plan-for Immediate Notifications for HES contact information.

Oil spill response can generate waste materials ranging from oily debris and sorbent materials to sanitary water and a variety of used contaminated equipment and supplies. These wastes must be properly classified, separated (i.e. oil, water, soil), transported from the site and properly treated and disposed of at approved sites. Each of these activities requires certain regulated health and safety precautions be taken. Proper waste management permits must be obtained.

A general Company Waste Management flowchart is provided on the next page.

In addition, it is important to refer to the State Appendix for specific guidelines regarding waste management including strategies, separation, transfer, storage, transportation and other necessary information.

FACILITY WASTE MANAGEMENT FLOW CHART



COMMUNICATIONS

SECTION 11 COMMUNICATIONS

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COMPANY CORE PLAN**COMMUNICATIONS****SECTION 11**

COMMUNICATIONS

Effective and efficient communications systems are essential for emergency response at every level. Communications systems will be utilized to assist with coordination of necessary incident activities.

Several communications systems are available and will be utilized by the Immediate and Sustained Response Teams as follows.

- Primary method will be via Cellular Telephone System(s).
- Secondary method is landline telephone system.

Additional secondary methods includes:

- VSAT Telephone System
- 24 hour Conference Bridge
- Public Telephone systems
- Facsimile via Public Telephone System or Cellular System
- Contractor two-way radio systems
- Spill Cooperative radio networks
- Citizen Band radio systems

These systems may be augmented by additional communications systems as required:

- Public Address Systems
- Marine radio System
- Air to ground radio System
- Local Amateur Radio operators

VSAT Telephone System

The Company has a number of VSAT Telephones in place, which can be used as a secondary means of communications.

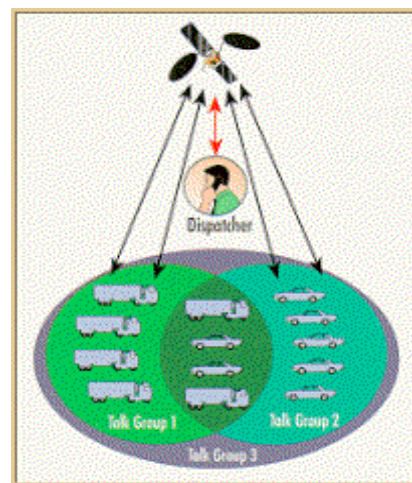
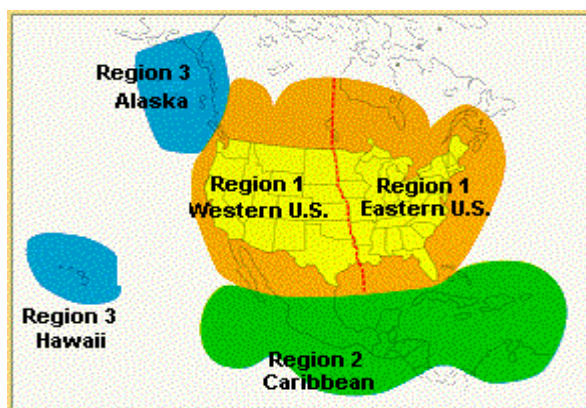
The Company has placed these telephones at each of the various Field Team locations and the Houston Control Center. These VSAT Telephones provide the local Field Teams with unlimited coverage to communicate with the Control Center Controllers, as well as State and Federal Agencies.

All communications on this system must pass through a satellite, even if units are adjacent.

COMPANY CORE PLAN

COMMUNICATIONS

SECTION 11



VSAT Telephone System Coverage Area of American Mobile Satellite. Note: All Company phones are served by Region 1 – Western U.S.

The VSAT System has three Talk Groups which coincide with Regional Boundaries (Talk Group #1 being the Gulf Coast Region, #2 the Central Region and #3 the Western Region).

These units can operate in two separate modes. The first mode, or Dispatch mode uses the “Push To Talk” (PTT) microphone to communicate with the entire talk group. In this mode, when the PTT microphone is pressed it activates the satellite and allows all units in a specific Region to take part in the conversation.

When the PTT microphone is depressed, all units in the talk group can identify the unit which is in use by the unit number being displayed as the unit transmits. When you are in this mode it should also be noted that the speaker which the conversation is be transmitted through is built into the rear of the handset. If you cannot hear the conversation you must pick up the handset and adjust the volume on the handset.

The second mode of operation is the “telephone”. This feature uses a handset, which looks much like a cellular telephone handset. This allows a users to call into or out of the satellite telephone system.

When using the handset the two parties can only hear the call, i.e., the unit that placed the call and the party receiving the call. In the Dispatch mode, the entire talk group can hear the conversation.

These two functions are built into the same base unit. The base unit has the capability of switching from the PTT to the handset when an incoming call is received. There is however a one-minute timer, which after placing a call, will prohibit the unit from switching back to the PTT. Therefore, when these units are in use it is recommended that they remain in the PTT active mode.

This system is Half Duplex so when talking on the system, it is necessary for one person to talk while the other person listens.

Along with the field units, which are on talk groups determined by geographical regions, the Control Center at the Texas Facility has a VSAT phone on each console. These units can join into any of the talk groups in any Region.

American Mobile Satellite Company has a 24-hour Customer Service Center which is capable of working with users to help talk them through opening trouble tickets.

Cellular Telephones

Recent developments in the cellular telephone system permit unprecedented flexibility and access to the PSTN from remote and mobile locations. The cellular systems are so wide spread that there are few areas which cannot be reliably served by these networks. Units can be mounted in vehicles or hand carried to provide for the receipt or initiation of telephone calls.

This extensive system provides a semi-private mode of telephone use which can be a valuable tool for emergency response. It permits immediate telephone service at non-connected locations like a Command Post, or remote strategic deployment areas.

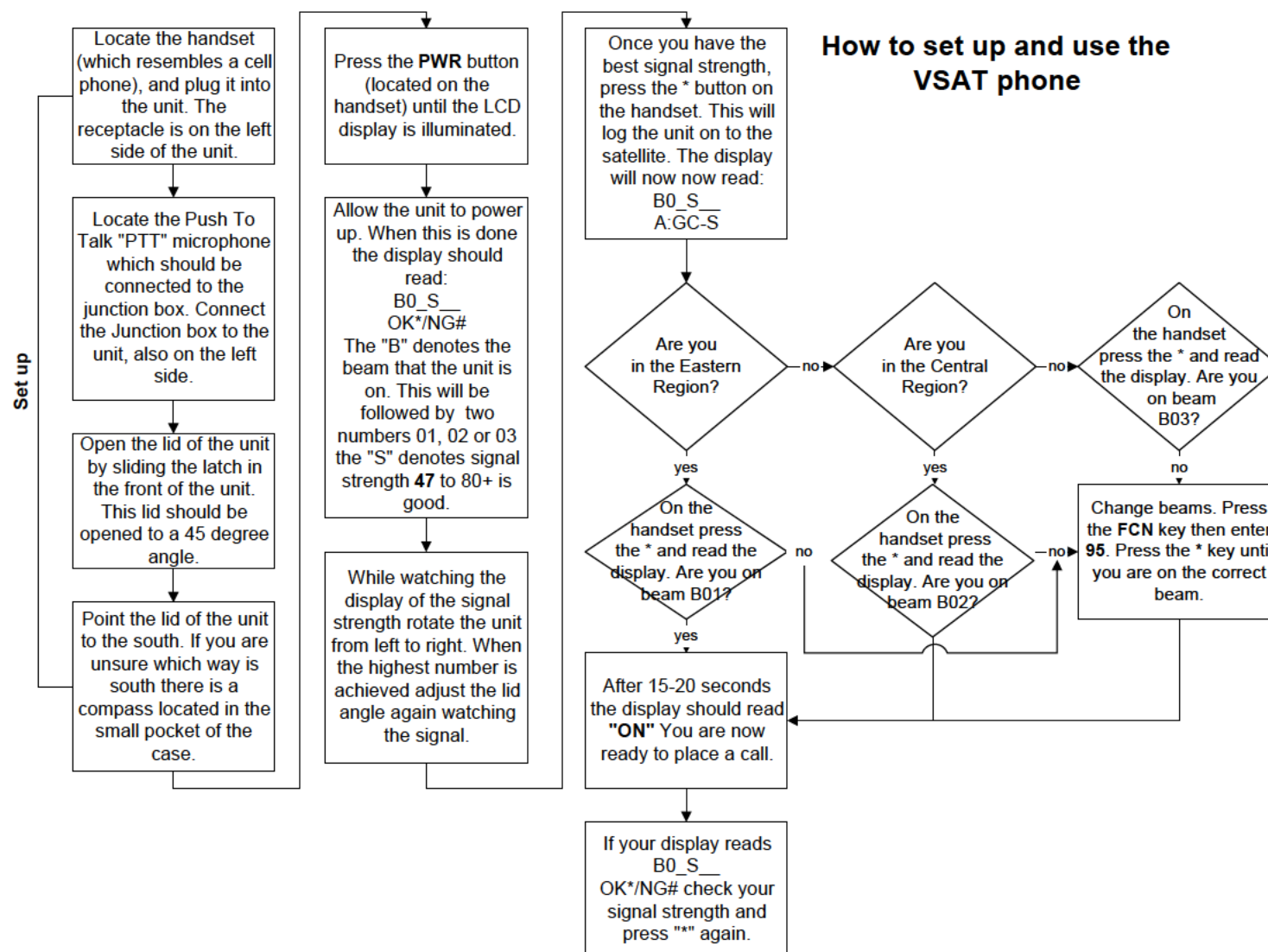
The Company owns many cellular telephones that are currently connected to local cellular networks.

In the event of a sustained response effort additional vehicular mobile and/or hand held cellular telephones can be purchased, installed and activated in a few hours time. This helps to establish a more secure network of communications between the Command Post and remote work locations. Cellular telephones may provide telephone access for the Command Post in its initial hours of operation before telephone connections can be made and service established.

In the event of a wide spread event that affects local power distribution and telephone service, cellular telephones may not continue to operate if the cellular repeater power source is affected. Some repeater sites are provided with backup systems. It is likely but not assured, that cellular telephones will be in service and usable on some occasions when local telephone service has been disrupted.

If there is a significant widespread incident or natural disaster such as a hurricane, earthquake, tornado or other major man made disaster, the PSTN may be out of service or overwhelmed by traffic. Should this occur, Company Teams must rely on the VSAT Telephone system as previously described.

COMPANY CORE PLAN

COMMUNICATIONS
SECTION 11

TIPS FOR SUSTAINED USE OF HAND HELD RADIOS AND CELLULAR PHONES

- Place unit in charging unit for any period of non-use
- Step into a clear area out of doors for improved reception
- Hold radio with antenna vertical to match polarization of base antennas
- Hold the transmission to minimum to conserve power
- Turn unit completely off when unused or when you are within hearing of other radio units
- Keep a spare battery in the charging unit

NOTICE

Cellular telephone conversations can be intercepted and monitored by outsiders equipped with scanning receivers. Due to complicated switching and multiple frequency paths, deliberate monitoring of any specific parties is extremely difficult and is unlikely to occur. However, such monitoring is possible. Cellular telephones should be used with the understanding that privacy is not absolute.

Regular Telephone Service

Telephone service should be requested immediately as soon as a decision is made on the location of the Unified Command Post.

Facsimile

Communication of documents, maps, diagrams, reports, correspondence and other material can be accomplished quickly and accurately via facsimile over commercial telephone lines from stationary and mobile cellular phones.

Facsimile machines can be operated over a cellular telephone. To do so, a device known as an acoustical coupler is required. If this is needed, the request should be made to the Communications Unit Leader.

All Facsimile transmissions should be accompanied by a FAX cover sheet. A typical cover sheet for use during an incident is shown in Section 2 of this Core Plan. This sheet can be copied if cover sheets are not available. This sheet should not be used for non-response related facsimiles.

Contractor Radio System

Contractors likely to be employed in and emergency response effort frequently have vehicles equipped with VHF or UHF FM mobile radio systems. While these systems are not compatible with the other systems described, they will provide communications between work groups from the same contractor and the contractor's office. Additionally, many foremen and supervisory personnel have cellular telephones in their vehicles. These radio systems can be utilized to augment the operational radio system during response efforts. Messages for contractor work

COMPANY CORE PLAN VOLUME 1**COMMUNICATIONS****SECTION 11**

groups or for their Company representative can be relayed through the contractor's office or their vehicles.

Spill Cooperative Radio Systems

An extensive radio system is available and can be utilized through Oil Spill Cooperatives. These radios operate on Federal Communications Commission frequencies that are specifically reserved and assigned for oil spill response.

Communications Matrix

The Logistics Section will be responsible for coordinating the distribution and operation of radios. Logistics will also be responsible for maintaining assignment records for the hand held units and chargers.

The units should not be swapped or given to others for extended use without notifying Logistics. Units requiring repair or maintenance should be turned in to Logistics who will log the unit as returned and issue a replacement unit. The defective unit will be tagged with a repair tag immediately upon return. The tag should be taped to the unit and turned over to the Company technician or sent to the repair shop for service.

Public Address Systems

Electronically amplified voice systems can be employed in response for several purposes:

- To assist with traffic control
- To assist with crowd control
- To direct containment or diversion efforts
- To direct repair efforts
- To address a large gathering of the media

The most useful system for these tasks is the hand held hailing horn. It consists of a battery powered amplifier mounted on a projection horn. The unit has an on/off volume control, a push-to-talk switch and a microphone mounted on a pistol grip. The units are sturdy and will continue to operate satisfactorily under adverse conditions. The units are shock and weather resistant and can be used in marine service.

To use the unit, turn it on, adjust the volume and aim it in the direction you wish to speak. Hold the unit so the microphone is between 4" to 1" from your mouth. Speak in a normal voice level slightly slower than normal for clear understanding. Important instructions should be repeated.

If the unit is equipped with a signaling tone for gaining attention it should be used sparingly. The Company has several of these units that are carried in vehicles for emergency response. Additional units may be purchased if needed for extended use during an incident.

Marine VHF Radio

Should an emergency occur that involves a spill into the ocean marine radio systems provide local communications between vessels and between a vessel and the shore. The oil spill response vessels of most cooperatives are equipped with multi-channel marine VHF radios. Channel 16 is used and monitored by all vessels as a designated emergency and hailing frequency. Use Channel 16 to gain contact with a vessel, then change to a mutually agreed channel for communications. This keeps the emergency and hailing frequency clear for other users. The US Coast Guard port offices and vessels continuously monitor Channel 16 and can be contacted on this frequency.

When coordination and communications between vessels and the shore is required, hand held 80 channel marine VHF transceivers or 80 channel base stations may be used. Although the Company does not have such radios, base and hand held units are available which can be utilized until units can be obtained through the Communications Technology Department.

Additional marine VHF base and hand held transceivers are available through the Company's cooperatives. Hand held and base units are readily available.

Marine VHF radios operate on a "line of sight" principal between stations. The signal does not bend around large obstacles or over the horizon. Antenna height is the single most important factor in the range of the units. Accordingly, reliable communications can be accomplished by relatively low power hand held units if you are above water level and have a clear path. The hand held units are particularly effective for communicating with vessels operating near the shore in oil spill clean up operations.

Air to Ground Radios

All leased aircraft and helicopters are equipped with VHF air to ground radio transceivers. The air to ground VHF also operates on a "line of sight" basis. Because the aircraft is operating at altitude its antenna is at a height which permits communication over a considerable range. Hand held units are also available but not widely stocked. Initial communications with aircraft and helicopters can be handled through the aviation contractor who has base units installed.

Amateur Radio Resources

Amateur Radio Operators are private citizens who have passed the licensing requirements of the Federal Communication Commission to hold communication privileges on various assigned frequency bands. They own and operate base stations and mobile units primarily as a hobby. Frequently these amateur radio operators, or "Hams," establish reliable communication networks and undergo training and drills to establish proficiency in providing emergency communications during disasters when conventional means of communication are out of service. They have a rich history of such assistance and service in times of earthquakes, floods, hurricanes and other natural disasters. Their communications equipment is frequently very modern and capable.

Although the Company radio system is equipped with emergency generators and other standby provisions and should remain in operation under foreseen emergencies it is possible that

COMPANY CORE PLAN VOLUME 1**COMMUNICATIONS****SECTION 11**

telephone trunk lines, microwave paths and fiber optics links could be disrupted. Amateur networks would be a reliable link to communicate with other Company facilities.

NOTE: FCC regulations prohibit the use of amateur radio for commercial use for profit or gain. Any use of this resource should be restricted to emergency communications and not in any way connected with routine business matters.

There are two different types of emergency networks in operation by amateur radio operators. The first type is organized and sponsored by the American Radio Relay League (ARRL) and will accept and transmit radiograms routinely or in times of emergency. The messages should be given a proper priority "routine," "urgent" or "emergency" and delivered by telephone to any operator on the net. Radiogram messages should be in the form of a telegram; brief, abbreviated and restricted to the essential message.

The second network is called the Military Affiliated Radio System (MARS). It is sponsored by military organizations (i.e. ARMY, Air Force) and networked with powerful radio stations located at military bases. This system is primarily intended to assist personnel in the armed forces but it will also process radiograms in times of crisis.

The ARRL networks and arranges direct communications if you can go to their station and arrange to have a party at the receiving station. Radiograms are the preferred medium. In an extreme emergency, contact the local County or Parish Sheriff's Radio Dispatch or the local County Office of Emergency Preparedness. They will be in direct contact with amateur radio relays. Radiograms can be sent to other cities by getting in touch with these individuals.

General Radio Use

Use of the radio in emergency response is essential to the coordination of the effort. Many Company employees use the radio on a daily basis during regular operations and maintenance and are familiar with their utilization. Other members of the Response Team do not regularly use radios and are not experienced in their use. A brief explanation of efficient radio use to help assist with effective communications is as follows:

Rules For Efficient Radio Communication

- Be sure you know how to operate the unit you have been assigned. If you aren't sure, ask.
- Hold the microphone from 1" to 2" from your lips when you speak. Speak clearly and distinctively.
- Repeat or spell essential or difficult to understand phrases such as street names.
- Identify yourself and the party you are calling at the beginning and end of your conversation.
- Yield routine calls to any proclaimed emergency.
- Listen before you transmit to see the frequency is clear.
- Keep transmissions as brief as possible. Do not "ramble on."
- If within range, use the repeater to establish communications then move to the talk-a-round mode for longer transmissions. (Don't forget to put the unit back to repeater mode when the conversation is complete).
- Use the word; "over" to indicate you are ready for the other party to transmit, then release the Push-to-Talk button promptly.
- Wait for others to "Sign Off" before starting your call.
- Except for unusual circumstances communications should be "one on one."
- Clearly indicate your "Sign Off" so others will know the frequency is clear.
- Be courteous and considerate of others.
- Do not use the radio for sensitive or confidential transmissions. The radio is not secure. Media personnel can and often do monitor company frequencies during emergencies.
- The use of cell phones or similar electronic devices while driving is prohibited. Guidelines demand the stopping of the vehicle in a safe location prior to sending or receiving calls.

DRIVE CAREFULLY!

TRAINING & DRILLS

SECTION 12 TRAINING & DRILLS

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TRAINING AND DRILLS

Introduction

Company has developed an annual training and education plan and a long range training process to meet the requirements of emergency response regulations, as well as other business needs.

In order to gain practice in the application of their local emergency response plan, Team locations also conduct hypothetical drills.

All employee training is documented using Company's standard documentation process.

Where required by State or Federal regulations, a summary of employee training records is kept at the facility. The summary of employee training records will be maintained as long as personnel have duties under the Response Plan. This summary is available for review by agency representatives as provided for by regulations. Complete training records, including signed course rosters, copies of certificates of completion and course outlines, are maintained by the Headquarters Human Resource Group and may also be made available as required.

Regulatory Overview

The emergency response training program is designed to assure that an adequate number of trained personnel are available to respond to emergencies along pipelines, pumping stations and terminals. The program is designed to comply with all applicable laws and regulations. Company's emergency response drill and exercise program is consistent with Federal PREP requirements. These drills and exercises are discussed in detail following the discussion of Company's training programs.

The emergency response training program complies with OSHA requirements under 29 CFR 1910.120, EPA regulations in 40 CFR 113 and Coast Guard requirements under 33 CFR 154 and 156, 49 CFR 194, 49 CFR 195 & 402 and applicable state requirements.

The program complies with these regulations by:

- Identifying training provided to each individual with responsibilities under the plan.
- Ensuring that all response personnel are trained to meet OSHA standards under 29 CFR 1910.120.
- Identifying the methods of training volunteers and casual laborers receive during a response to comply with 29 CFR 1910.120.
- Training personnel in preventing pollution during operations and oil transfers.
- Instructing personnel in the operations and maintenance of equipment and applicable laws, rules and regulations.

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TRAINING & DRILLS**

- Scheduling and conducting periodic spill prevention briefings for operating personnel at frequent intervals. The briefings discuss known spill events or failures, malfunctioning components and recently developed precautionary measures.

PREP exercise guidelines specify record-keeping requirements for drills and exercises.

Company maintains drill and exercise records for five years.

Records of training conducted as part of drills and exercises will be maintained as long as personnel have duties under the Response Plan. They will be made available upon request. The records include:

- Documentation of the training received by facility personnel. This documentation consists of a summary of training in which each employee has participated.
- Documentation of drills for facility personnel and the Spill Management Team.
- Documentation of drills of the oil spill response organization and response resources identified in the plan.
- Documentation of training received by those contract personnel that participate in either drills or actual incidents.

Company Emergency Response Training Program

The training program for emergency response is designed to prepare personnel to respond properly to non-routine activities or emergencies such as fires, spills, or leaks involving crude oil, pressure distillates, gasoline, or other petroleum products normally transported or stored in the pipeline system. This program is *not* currently designed to prepare personnel to respond to spills or fires involving other types of chemicals (e.g., boiler feed water treatment chemicals), product transportation accidents other than spills (e.g., tank truck rollover or fire), fires beyond the incipient stage, or interior structural fire fighting.

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TRAINING & DRILLS****Training Levels**

The variety of jobs in Company requires a range of awareness and expertise to cope with potential emergencies. Training levels have therefore been designed to provide a tailored curriculum for defined levels of response capabilities. Company has established a comprehensive training program to insure that their response teams are properly trained, qualified and capable of carrying out the responsibilities and duties associated with immediate and sustained response to an incident.

Company also maintains an annual training program for additional regulatory required environmental and safety training. This training prepares employees to handle routine and emergency situations by reviewing:

- Notification procedures and phone numbers
- Job site safety
- Emergency scene assessment
- Damage control

This training is provided to employees annually. The level of detail and the type of training each employee receives is based on their job description and requirements. If an employee changes jobs, then the level and type of training they receive will be amended to meet the job requirements. All training records are maintained in the company's database.

The specific objectives of the training program are designed to:

- Define levels of training required for all personnel and within pipeline operations, including awareness training for administrative staff through more advanced specialized response training for those personnel with primary responsibility for the management and mitigation of emergencies.
- Establish the content of in-house classroom, computer-based and hands-on training and identify specialized outside training courses to supplement the in-house program
- Determine the duration and frequency of all training courses.
- Assure attendance and proficiency of personnel.
- Devise and schedule drills to assess response capabilities to a variety of incidents as required by the applicable regulations.
- Maintain compliance status of all Regional System personnel with designated training level requirements using the training tracking system.

Each of the objectives listed above is addressed in the following sections.

HAZWOPER Emergency Responder Training

Federal Regulations 29 CFR 1910.120 and various State Regulations require that those employees whose job descriptions require that they participate in the response to spills, which are classified as hazardous materials, receive training commensurate with their duty descriptions. This training series, popularly known as “HAZWOPER”, is illustrated on the matrix following this page. The Company Immediate and Sustained Response Team duties and responsibilities have been evaluated and the appropriate level of HAZWOPER training has been defined for each position.

Casual Hire Training

During post-emergency responses, it may become necessary to hire additional personnel for site clean-up and rehabilitation. Whenever temporary personnel (casual hires) are involved, Company shall review the following items to ensure that they are properly trained:

- Job Site Safety Plan
- Chemical hazards at the site and wearing of appropriate personal protective equipment
- Their specific role in the clean-up
- Names and contacts for the incident’s Incident Command System

Drills and Exercises

Company conducts regular drills to assure adequate preparedness and in order to remain in compliance with Local, State and Federal government regulations. Company’s drill program is based on the National Preparedness for Response Exercise Program (PREP) and has additional key elements that comply with various State Regulations. These drills are summarized in this Section. Drills and exercises will be conducted under the direction of each Region to ensure that preparedness objectives are met.

Company contacts State Representatives prior to conducting tabletop and deployment drills. Post-drill documentation for drill acceptance and certification by the State is submitted following tabletop and deployment drills.

State of Washington Training Program

The State of Washington Training Program will include (at minimum):

- Applicable ICS training
- NWACP Polices
- Use and location of GRP's
- Contents of ERP
- Worker health and safety

New employees shall complete the training program prior to being assigned job responsibilities, which require participation in emergency response activities.

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HAZWOPER Training Summary

COMPANY HAZWOPER TRAINING

Type	Clean-Up			Emergency					TSD Sites	
Level	General Site Worker	Occasional Worker	Low Hazard Worker	Level 1 Responder Awareness	Level 2 Responder Operation	Level 3 HAZMAT Technician	Level 4 HAZMAT Specialist	Level 5 Incident Commander	General Site Workers	Emerg Resp Personnel
Reference 29 CFR	1(a) (3) (i)	1(a) (3) (ii)	1(a) (3) (iii)	1(q) (6) (i)	1(q) (6) (ii)	1(q) (6) (iii)	1(q) (6) (iv)	1(q) (6) (v)	1(p) (7) (i)	1(p) (8) (iii)
Time (Hours): Classroom Field	40 24	24 8	24 8	Training or Experience	8 or Experience	24 of Level 2+ Items* Yes	24 of Level 3+ Items** Yes	24 of Level 2+ Items** Yes	24 or Experience	Training or Experience
Annual	8	8	8	Yes						Yes
Subject										
Site Safety & Health Organization	X	X	X						X	
Overview of Reg.	▲	▲	▲			▲	▲	▲	▲	▲
Hazard Communication	X	X	X	X	X	X	X**	X**	X	X
Personal Protective Equipment (PPE)	X	X	X		X	X	X	X	X	X
Medical Surveillance & Overexposures	X	X	X		▲	▲	▲	▲	X	X
Respiratory Protection	▲	▲	▲		▲	X	X	▲	▲	▲
Site Security & Control	▲	▲	▲	X	X	X	X	X	▲	
Decontamination	X	X	X		X	X	X	X	X	X
Containment & Clean-up	X	X	X		▲	X	X	▲	X	▲
Drum & Container	X	X	X					X		
Engineering Controls	X	X	X					X		
Emergency Response	X	X	X	X	X	X	X	X	X	X
Confined Space Entry	X	X	X	▲	▲	▲	▲	▲	▲	▲
Information				X	X	X	X	X		X
Electrical Lockout / Tagout	▲	▲	▲		▲	▲	▲	▲	▲	▲
Monitoring Equip &						X	X			
Fire and Rescue Equipment	▲	▲	▲	▲	▲	▲	▲	▲	X	X
Demo Competency/	X	X	X		X	X	X	X	X	X
Incident Command System						X	X	X		
Std. Op Procedures &	X	X	X		X	X	X	X	X	X
Federal/State/Local Emergency Plans							X	X		
Site Risk Assessment & Characterization						X	X			

* Supervisors and managers of employees at clean-up sites shall have training equivalent to the employee being supervised plus eight hours of Hazardous Waste trainings

** Individuals must be competent in the specific items listed

*** These individuals need more extensive training in this subject. See the appropriate paragraph of the

x = Required

▲ = Recommended if applicable

COMPANY CORE PLAN**SECTION 12
TRAINING & DRILLS**

As previously noted, Company maintains a system of record keeping to document the drills described in this section. In the case of a spill, documentation is also maintained so that credit can be taken for the corresponding type of drill or exercise. These records will be maintained at the facility office and in the regional training files for at least five years as required by State and Federal spill response regulations.

Drills designed to comply with Local, State and Federal regulations may exercise different parts of the plan as necessary to ensure that all parts of the plan are able to be implemented. Drills will be designed so that all elements of the plan are exercised at least once every three years.

The discharge scenarios used for the drills and exercises will include the Reasonable Worst Case Discharge as described in the State Response Zone Appendix. The WCD will only have to be exercised once during any three-year cycle. The WCD scenario is only required to be a Table Top drill.

The drills will be conducted by Teams, Regional System Teams or Company multi-coop groups. Drills can be either announced or unannounced and will be initiated by a Company entity. Federal, State or Local agencies may also initiate drills. The drills conducted by Company will consist of:

- Quarterly notification drills
- Semiannual facility equipment deployment drills
- Annual table top drills
- Annual OSRO equipment drills
- Government initiated (unannounced) drills

Drills will cover all types of pipeline operations as well as drill exercise emergency procedures for both manned and unmanned facilities.

Quarterly Notification Drills

The Qualified Individual and Facility Notification Drill will be exercised once a quarter. This drill will activate the notification procedures, including notifying the appropriate QI. While the spill team will be notified, it will not be activated. Any phone number changes or difficulties reaching parties will be noted on the drill log and the problem rectified by the next scheduled drill. Agencies do not need to be called during this type of drill.

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TRAINING & DRILLS**

Equipment Deployment Drills

Periodic spill exercises are normally conducted twice a year and include deployment of booms and other facility owned equipment.

Spill exercises are conducted once a year with CO-OP Personnel and include deployment of booms and skimmers.

Supervisors and relief supervisors from Company participate in the exercises, as well as Field personnel.

Company equipment is deployed during the semi annual drills. Equipment deployed during either of these deployment drills may be credited toward the required triennial-cycle of deployment drills. Equipment deployed during an actual spill may be counted if properly documented.

Annual Table Top Drills

After the completion of the requisite training, Company will conduct a drill at least once a year of the Spill Management Team. These drills will simulate an actual incident. A detailed scenario with a realistic set of “existing conditions” will be prepared prior to the drill and delivered to the participants at the start of the drill. This scenario will be prepared by HES staff and each Team and will be structured to test the Team and the plan. The drill may last a complete day and may simulate a longer period of time. The drill rules require the actual mobilization of the Spill Management Team, actual notifications of the company cooperative and contractor resources, but do not require actual mobilization of non-Company resources or mutual aid groups. The drills will be supported and observed by personnel outside the Response Teams (and at times, outside Company) who will act as umpires and will assess the drill critically and prepare reports evaluating the Team’s effectiveness.

The participants will also be required to prepare debriefing reports evaluating their own performance and offering recommendations for improvement.

The umpire’s reports and the participants debriefing forms, along with recommendations will be evaluated by Company Management. A summary report to Regional and Team Leaders will be prepared along with suggested actions to be taken on the recommendations.

Agency Drills (Announced or Unannounced)

Company will participate in internal and agency unannounced drills in accordance with Local, State and Federal requirements.

Provisions for the agencies to require participation in an agency led announced or unannounced drill are contained in several regulations. Company will respond as required by the agency when such a drill is called. In such cases, the agencies will advise the Company Incident Commander of the drill objectives and goals. Such a drill can be used to take the place of either a table top or a full deployment drill in Company's Drill Schedule, if the level of required response approximates the planned drill. Any unannounced drill called by State and Federal agencies can be credited toward other agencies requirements, provided the drill meets each agency's guidelines. Equipment deployed during the drill may also be credited toward one of the required semiannual equipment deployment drills. The Office of Pipeline Safety may schedule announced drills that would require activation of the spill team. A facility is not required to participate if it produces records of an equivalent drill in the past 24 months. Company will document all aspects of the drills and all agency/Company interactions and be prepared to verify adequate response. Provisions for declining to participate in an unannounced drill, due to critical operational considerations, should not be invoked lightly. This may result in a subsequent drill and could be viewed as an indication of Company being unprepared for an emergency.

Participant debriefing forms, participating agency personnel comments and the documentation of the drill will be collected and summarized in a written report. The report will be presented at a later meeting of all participants, where the drill will be analyzed in detail. Recommendations from the report and any comments in the meeting will be forwarded to Region Management as an Appendix to the report.

Team Member Conduct Toward Agency Personnel During Observed Drills

Agency personnel participating in or observing a drill should be considered to be guests of Company and afforded the courtesy and respect of all Team members. Every Team member should be prepared to stop activities and provide an explanation for any action or activity at any time during a drill, even if your performance or the critical timing of an activity is interrupted by the query.

Participating agency personnel should be considered as a resource that can be utilized to assist Company in a difficult time. The amount of assistance received will depend largely on the Team's ability to keep the agency personnel adequately informed as well as the Team's ability to coordinate the agency's resources and efforts with those of the Team. Coordination is required at every level of response in an actual incident and this is an opportunity to develop this ability to cooperate as a unified force.

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Experienced agency observers usually make notes but seldom offer criticism or advice during a drill. If the observer offers criticism or advice during a drill, offer explanations if appropriate, but do not attempt lengthy defenses for your (or the Team's) actions. Report any such criticism to your supervisor, or the Incident Commander, when convenient to do so. Never participate in arguments with observers during the drill. Just do your job as trained and directed. Criticism will be properly responded to, after the drill.

Summary of Response Drill Requirements

Frequency	Drill Summary
Quarterly	Facility Personnel, Qualified Individual, Contractor and Spill Management Team Notification Drills.
Semi-Annual	Facility equipment deployment drills <i>(The unannounced annual drill may be credited for one of these)</i>
Annual	Spill Management Team tabletop drills
Annual	Drills requiring the activation of the spill response resources identified in the plan. Includes deployment of equipment. <i>(Any other unannounced drill called by another Federal or State agency that meets NVIC-92 satisfies this requirement.)</i>
Unannounced Annual *	Unannounced drills conducted by a government agency or by Company. Drill may involve equipment deployment. Government Agency unannounced drill may count as an annual unannounced drill.
Triennial Cycle	Drills may be designed by Company to exercise components of the plan, so that at least once every three years all components of the plan have been exercised.
EPA 40 CFR 112	Mock alert drills, as required by the Clean Water Act, Section 311(j)(5). Actions taken, both predicted and unanticipated, by the response team should be noted and problems resolved as soon as possible. (This drill is the same as the annual full deployment drill).

* Annually, each plan holder should ensure that one of the following exercises is conducted unannounced:

- Emergency procedures exercise for vessels and barges;
- Emergency procedures exercise for facilitates (optional);
- Spill management team tabletop exercise: or
- Equipment deployment exercise.

An unannounced exercise is where the exercise participants do not have prior knowledge of the exercise, as they would be the situation in an actual spill incident.

PLAN REVIEW & UPDATES

SECTION 13 PLAN REVIEW & UPDATES

PLAN REVIEW, REVISION AND UPDATE PROGRAM 1

 Plan Review and Updates Overview 1

 State of Washington Post-Spill Review and Documentation Procedures..... 2

PLAN REVIEW, REVISION AND UPDATE PROGRAM

Plan Review and Updates Overview

The Company has established an ongoing program designed to keep its Emergency Response Plans (ERPs) updated and current.

- Annual review and subsequent revisions or additions by Team locations and by the Emergency Response Coordinator
- Routine update
- Ongoing and annual updates from lessons learned from annual HAZWOPER training, drills, exercises (Plus/Deltas) and or actual events

In addition, a change order is generated from Company to Field Teams annually to review and make necessary modification in the ERP.

When a new or different operating condition or information substantially affects the implementation of the Emergency Response Plan, it must be immediately modified to address such a change. Within 30 days of the modification, the modification must be submitted to the Pipeline and Hazardous Material Safety Administration (PHMSA).

Examples of changes in operating conditions that would cause a significant change to the ERPs are:

- An extension of the existing pipeline or construction of a new pipeline in a response zone not covered by the previously approved response plan
- Relocation or replacement of the pipeline in a way that substantially affects the information included in the response plan, such as a change to the worst case discharge volume
- A change in the type of oil transported, if the type affects the required response resources such as a change from crude oil to gasoline
- The name of the oil spill removal organization
- Emergency response procedures
- The qualified individual
- Change in ownership
- A change in the National Contingency Plan (NCP) or an Area Contingency Plan (ACP) that has significant impact on the equipment appropriate for response activities
- Any other information relating to circumstances that may affect full implementation of the response plan

The Emergency Response Plan will be resubmitted to PHMSA for approval, every 5 years from the last approval date.

State of Washington Post-Spill Review and Documentation Procedures

Company will conduct post-spill reviews to review both the effectiveness of this Company ERP and make plan improvements. Debriefs with Washington State Department of Ecology and other participating agencies and organizations may be appropriate if:

- Unified Command has been established during a spill; and
- Will occur when significant plan updates are identified or
- Significant lessons can be recorded and implemented.

PUBLIC RELATIONS

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COMPANY CORE PLAN**PUBLIC RELATIONS
SECTION 14****PUBLIC RELATIONS**

A spill from a Company facility has the potential to seriously impact areas of high density population, sensitive recreational, sensitive public, commercial assembly and sensitive wildlife and botanical areas. Local news coverage is certain and nation wide coverage is likely.

Media Coverage

In any large incident it is necessary to mobilize the Company's Public Affairs professionals who have extensive training in the field and are experienced in working with the media.

TEAM MEMBER RESPONSE GUIDE

If the media approaches you, you should be guided by the following:

- You will be considered to be a Company spokesperson in the eyes of the media. As such, you should consider any contact with the media as important.
- It is important to communicate that the Company has an Oil Spill Response Plan and a trained organization to deal with the incident and that the team is taking measures to contain the spill and mitigate the impacts.
- You should not withhold information regarding the extent of the incident that you know. It is important that you do not speculate about anything you do not know for sure to be a fact.
- You should not indicate, unless it has been determined, that the spill belongs to the Company. You may say: "We are not sure, but we are responding as if it were a Company spill until it is determined otherwise and others take over."
- You should not speculate on the cause of the incident; instead, you should indicate that the cause is under investigation. An exception should be made if the cause is evident, such as outside party damage.
- You should not make statements or speculate in a manner that can be considered as a commitment by the Company or an assumption of responsibility. Such questions should be referred to the Incident Commander.
- Try to demonstrate the Company's concern regarding the impacts of the incident. The media will ask questions (see the table to follow) to gain your response. Many questions are designed to be difficult to answer in a positive manner. If you feel "trapped" by a question, you can respond by explaining what is being done by the Company in a positive manner.
- The best rule is to respond truthfully, show concern and exhibit confidence in the Company's ability to control and handle the problem.

**PUBLIC RELATIONS
SECTION 14**

COMPANY CORE PLAN

Sample Media Questions

• How big is the oil spill?	• Where is the terminal located?
• Is it bigger than (<u>another incident</u>)?	• Is the Company prepared and trained to handle this?
• How and when did it occur?	• How old is this facility?
• Whose fault is it?	• Have you had leaks before? How many?
• Why hasn't the Company done something to keep this from occurring? Why didn't it work?	• Is this a routine leak?
• What are you doing? What are these men doing?	• Is this going to another Valdez?
• Why aren't you doing (<u>Whatever</u>)?	• I thought the Company was environmentally concerned? What happened?
• Is this spill dangerous to the people living here?	• How can a responsible company let this happen?
• Has there been loss of life? Injured?	• (<u>Organization or agency</u>) says you're doing nothing to prevent (<u>occurrence</u>).
	• Why are you ignoring their concerns?
• Will it explode? Catch fire?	• Is this under control?
• Will it go into the ocean?	• What are you objectives at this time?
• What's being done to protect wildlife and birds?	• Has this facility been safety-checked? When?
• Is this going to worsen?	• Will the Company accept volunteers to help?
• Has the leak stopped? Why not? When will it be?	• Is this all the people and equipment that Company intends to use?
	• Does the Company have more resources, or is this all?
	• If more, why aren't you using them?
• Is the spilled material toxic?	• What is the Company going to do about (<u>some impact</u>)?
• Will Company return everything like it was before the spill?	
• Does Company take total responsibility for this spill?	
• How long will Company work to clean up the spill?	

MANAGING THE MEDIA

Immediate steps need to be taken to interface with newspaper, television or radio representatives. The Company policy requires that we interact with media in a positive, cooperative manner. The media is to be provided with pertinent factual information that reports incident facts and not distorted or exaggerated information. Initial statements must be confined to facts that will not be subject to dispute. The release should be consistent with the following criteria:

- Identification of the location or name of the facility.
- Time of the incident.
- Type of oil, gas or product involved.
- Action being taken to control, cleanup or handle.
- Who is involved in cleanup or correction.
- Amount of material spilled (IF CLEARLY ESTABLISHED).
- Cause (ONLY IF DETERMINED).
- Duration of fire or cleanup (IF KNOWN).

Public Affairs personnel, as well as all others directly involved in incident operations, should observe the following rules:

- Speculation on any aspects of the incident should be strictly avoided.
- Names of persons seriously injured or killed shall be withheld pending notification.
- Advise media representatives of personal hazards and hazard areas to be avoided.
- Do not attempt to bar photographs or video filming of a spill or fire.
- Guide photographers, video cameraman or reporters to safe vantage points and advise them of hazard areas to avoid.

Public Affairs personnel are specifically charged with following duties:

- Inform the Company Public Affairs Representative, or his/her alternate, of any incident occurring in their area of responsibility.
- Establish a news media facility with work tables, telephones and facsimile machines for media personnel assigned to an incident. This facility would serve as a site to facilitate news releases, conduct press conferences, interviews and coordinate media coverage of an incident. Hot and cold beverages, sandwiches and snacks should be provided.
- Coordinate media coverage, such as creating pool photographers, reporters, video crews, etc. to satisfy the media without overtaxing resources that are required for other operations.
- Provide photographs and videotape illustrating the Company's efforts in the incident.
- Provide statistical data regarding the numbers of Company employees, contractors, consultants and other involved in containment and/or cleanup and restoration.
- Arrange for upper management interviews and statement releases.

LARGE AND SUSTAINED INCIDENTS

The Public Affairs Representatives(s) will become advisors to the Incident Commander and should consider the following:

- Establishing a new update hot-line for the media.
- Establishing a news update hot-line for Company employees and families of the Response Teams.
- Providing periodic new releases to the media.
- Providing facilities and conducting periodic new conferences.
- Providing scheduled interviews with the Incident Commander, On-Scene Corporate Managers or other selected Response Team Members.
- Providing vessels for media tours of spills impacting the ocean.
- Providing aircraft and/or helicopters for media observation of the incident.
- Providing ground transportation to inaccessible areas for media tours of containment and cleanup efforts.
- Conducting tours of the Company and volunteer wildlife cleaning rehabilitation operations.
- Providing maps and graphic illustrations depicting resource employment.

ADVANTAGES OF SETTING UP A NEWS CENTER

During a large and newsworthy incident, consider setting up a large conference room in a nearby hotel to serve as a news center (See news center list on next page).

Advance notices of releases, particularly news conferences, should be made early enough to allow camera crews to set up and reporters to arrive at the center.

Selecting The News Center Location

The hotel selected for the news center should be a moderate and conservative facility. Appearances of undue economy or opulence (large and elaborate chandeliers, etc.) should be avoided. The hotel should be conveniently located near the incident scene. It is better to use a facility separate from the hotels used to quarter either Company personnel or evacuees.

COMPANY CORE PLAN**PUBLIC RELATIONS
SECTION 14****News Center Equipment List**

- Public address system with lavalier, podium and table microphones
- Remote boom directional microphone
- Overhead projector with stand
- 8' x 10' projection screen
- 30" video monitor with stand
- VHS recorder
- Podium and speaker tables on raised platform
- Reporter tables with three chairs/table (six tables suggested)
- Additional folding chairs for others
- Large scale map
- Supplemental portable light stands
- Pointer

NEWS MEDIA PARITY

In fairness, news releases and invitations to news conferences should include, or offer to include, each of the media in the area. Omissions can offend media representatives and result in poor media relations. It is acceptable to limit participation to local media who will provide coverage to their affiliates and networks. If a national network or wire service elects to directly participate, it is usually a good idea to include the other competing services.

Pooling arrangements should be encouraged, particularly for tours conducted by the Company or when the Company provides vessels, aircraft or helicopters for news and film coverage.

COORDINATION WITH AGENCIES

All news releases and news conferences and their content, should be announced to participating agencies prior to their actual release. Coordination with agencies should be directed toward eliminating surprise and averting subsequent interviews with agency personnel with opposing opinions or discrediting viewpoints. Joint news conferences with Federal, State or Local authorities should be considered.

COMPANY CORE PLAN**PUBLIC RELATIONS
SECTION 14****DEALING WITH SPECIAL INTEREST GROUPS**

Special interest groups of citizens can be informed groups, residents in the area, boat owners in a marina, fishermen or others who believe they have been individually or collectively impacted by an incident.

Other vocal and highly organized groups like environmentalists, anti-growth advocates, wildlife protection and anti-oil industry organizations may also become involved. Their participation may include active picketing, crashing news conferences, and participating in critical news interviews or other activities that may produce negative news coverage.

It is important that the Company identify these groups (if possible before any public reaction) and meet with them to hear and address their concerns. Although it will probably not be possible to prevent all negative press, some groups will be less vocal if they have been truthfully informed and feel that the Company is addressing their grievances. Also, positive press can be achieved when it is announced that the Company has met or will meet with critical groups(s) to address their issues and concerns.

If hostile groups surface and appear likely to interface with Company activities, security measures may be required to restrict attendance and/or interference. Local law enforcement agencies may be requested to provide assistance or private security personnel may be employed. Any observed indications of such activities should be reported immediately to the Security Coordinator.

PUBLIC AFFAIRS FIELD OFFICES

Refer to the State Appendix Plan, Notifications Section for Public Affairs Field Office telephone numbers.

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DOCUMENTATION

Overview

During an emergency it is important to follow required internal and external documentation requirements.

Response Zone Specific documentation forms and flowcharts can be located in the State Appendix Plan.

Additionally, the Job Site Safety Plan is located in Section 7 of this Core Plan and must be completed as required by the Company.

Waste management forms can be located in the State Appendix Plan.

In order to assist with the efficient management of an emergency incident, it is usually necessary to utilize Incident Command System (ICS) Forms. This section contains copies of some of the more commonly utilized ICS Forms necessary to assist with the management of an incident. It is recommended that the ICS 201 Form be completed immediately and in conjunction with the Job Site Safety Plan.

A complete list of ICS Forms is also located in this Section. A complete electronic ICS Forms file is located on the Core Plan CD. The files and instructions for each form can be opened and printed as needed.

DOCUMENTATION/ICS FORMS

COMPANY CORE PLAN

SECTION 15

ICS – CG FORMS INDEX

ICS Form #	Form Title	Prepared By
201-CG ±	Incident Briefing	Initial Incident Commander
202-CG ±	Incident Objectives *	Planning Section Chief
203-CG ±	Organization Assignment List *	Resources Unit Leader
204-CG ±	Assignment List *	Resources Unit Leader & Operations Section Chief
204a-CG ~	Assignment List Attachment	Operations & Planning Sections Staff
205-CG ±	Incident Radio Communications Plan *	Communications Unit Leader
205a-CG ~	Communications List	Communications Unit Leader
206-CG ±	Medical Plan *	Medical Unit Leader
207-CG ±	Incident Organization Chart	Resources Unit Leader
208-CG	Site Safety Plan	
209-CG +	Incident Status Summary	Situation Unit Leader
210-CG ±	Status Change Card	On-scene Incident Dispatcher
211-CG	Check-in List	Resources Unit/Check-in Recorder
213-CG ±	General Message	Any message originator
213 RR CG	Resource Request Message	Any Resource Requester
214-CG ±	Unit Log	All Sections and Units
215-CG ±	Operational Planning Worksheet	Operations Section Chief
215a-CG ±	Hazard/Risk Analysis Worksheet	Safety Officer
218 •	Support Vehicle/Vessel Inventory	Ground/Vessel Support Unit Leaders
219 •	Resource Status Card	Resources Unit Leader
220-CG ±	Air Operations Summary Worksheet	Operations Section Chief or Air Branch Director
221-CG ±	Demobilization Checkout	Demobilization Unit Leader
230-CG ~	Daily Meeting Schedule	Situation Unit Leader
232-CG ~	Resources at Risk Summary	Environmental Unit Leader
233-CG ~	Open Action Tracking	Situation Unit Leader
234-CG ~	Work Analysis Matrix	Operations & Planning Section Chiefs
--- ~	IAP Cover Sheet *	Planning Section Chief
--- ~	Executive Summary	Planning Section Chief
--- ~	General Plan	Planning Section Chief
--- ~	Initial Incident Information Sheet	Person receiving initial report

- National Fire Equipment System (NFES) form unchanged, no OS version of these forms.
- ± NFES form has been slightly modified for oil spill response, either version can be used.
- + NFES form has been significantly changed for oil spill response.
- ~ New form for oil spill response, no NFES equivalent.
- * Commonly used in written Incident Action Plans (IAP).

INCIDENT SITUATION DISPLAY

The collection and display of information about an incident and the nature and status of response operations is a critical aspect of establishing and maintaining a command and control environment, and it promotes effective and efficient communications. Ideally, pre-designed status boards should be used for display to ensure that critical information is captured and presented in a clear and logical fashion.

Status boards that depict information that is of use to two or more Sections in an Incident Command Post should be grouped together in an area called the Incident Situation Display. Incident Situation Display should be viewed as the one place in an Incident Command Post where anyone can go, at any time, to learn about the nature and status of an incident and response operations.

Status boards in the Incident Situation Display should be limited in number and should be displayed in an ordered fashion to ensure that they impart an integrated and coherent message concerning: (1) the incident (e.g., nature and location of source, status of source, type and quantity of material spilled or emitted, and the environmental conditions affecting the response); and (2) the nature and status of response operations to address the incident. The diagram presents an example of an Incident Situation Display layout that is consistent with a logical left-to-right viewing.

An Incident Situation Display should be established and maintained by the Situation and Resource Unit Leaders. It should be situated in a highly visible and easily accessible location, in close proximity to the Planning Section and easily accessible to the Operations Section. Since it is an active work area, it should be located away from areas subject to heavy foot traffic.

Although an Incident Situation Display is established and maintained by personnel in the Planning Section, it belongs to everyone in the ICS. To the extent the Incident Situation Display contains information about activities underway in other Sections, it is the obligation of appropriate personnel in those Sections to work with Planning to ensure information posted in the Incident Situation Display is accurate and up-to-date. It is likewise the responsibility of the status board monitors within the Situation Unit to seek out sources and establish paths and schedules for needed information.

As time allows, black-and-white, 8" by 10" versions of the status board information should be prepared. These documents should be time-stamped and distributed within the ICS remotely, and copies should be made available at Incident Situation Display.

1. Incident Name	2. Operational Period to be covered by IAP (Date/Time) From: _____ To: _____	CG IAP COVER SHEET												
3. Approved by Incident Commander(s): <table style="width: 100%;"><thead><tr><th style="width: 20%; text-align: center;"><u>ORG</u></th><th style="width: 80%; text-align: center;"><u>NAME</u></th></tr></thead><tbody><tr><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td></tr></tbody></table>			<u>ORG</u>	<u>NAME</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<u>ORG</u>	<u>NAME</u>													
_____	_____													
_____	_____													
_____	_____													
_____	_____													
_____	_____													
<h2 style="margin: 0;">INCIDENT ACTION PLAN</h2> <p style="margin: 5px 0;">The items checked below are included in this Incident Action Plan:</p> <div style="margin-top: 10px;"><input type="checkbox"/> ICS 202-CG (Response Objectives) _____</div> <div style="margin-top: 10px;"><input type="checkbox"/> ICS 203-CG (Organization List) – OR – ICS 207-CG (Organization Chart) _____</div> <div style="margin-top: 10px;"><input type="checkbox"/> ICS 204-CGs (Assignment Lists) One Copy each of any ICS 204-CG attachments: _____</div> <div style="margin-top: 10px;"><input type="checkbox"/> ICS 205-CG (Communications Plan) _____</div> <div style="margin-top: 10px;"><input type="checkbox"/> ICS 206-CG (Medical Plan)</div> <div style="margin-top: 10px;"><input type="checkbox"/> ICS 208-CG (Site Safety Plan) or Note SSP Location _____</div> <div style="margin-top: 10px;"><input type="checkbox"/> Map/Chart</div> <div style="margin-top: 10px;"><input type="checkbox"/> Weather forecast / Tides/Currents</div> <div style="margin-top: 10px;"><u>Other Attachments</u> <div style="display: flex; align-items: flex-start;"><input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____</div></div>														

[illegible]

[illegible]

1. Incident Name

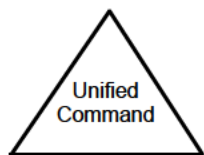
2. Prepared by: (name)

Date:

Time:

INCIDENT BRIEFING ICS
201-OS (pg 3 of 4)

6. Current Organization



FOSC _____

SOSC _____

RPIC _____

Safety Officer _____

Liaison Officer _____

Information Officer _____

Operations Section

Planning Section

Logistics Section

Finance Section

Div. / Group _____

Div. / Group _____

Div. / Group _____

Div. / Group _____

Div. / Group _____

[illegible]

1. Incident Name	2. Operational Period (Date/Time) From: To:	INCIDENT OBJECTIVES ICS 202-CG
3. Objective(s)		
4. Operational Period Command Emphasis (Safety Message, Priorities, Key Decisions/Directions)		
5. Prepared by: (Planning Section Chief) Date/Time		

INCIDENT OBJECTIVES (ICS 202-CG)

Purpose. The Incident Objectives form describes the basic incident strategy, control objectives, command emphasis/priorities, and safety considerations for use during the next operational period.

Preparation. The Incident Objectives form is completed by the Planning Section following each Command and General Staff Meeting conducted in preparing the Incident Action Plan.

Distribution. The Incident Objectives form will be reproduced with the IAP and given to all supervisory personnel at the Section, Branch, Division/Group, and Unit levels. All completed original forms MUST be given to the Documentation Unit.

Item #	Item Title	Instructions
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies. Record the start and end date and time.
3.	Objective(s)	Enter clear, concise statements of the objectives for managing the response. These objectives are for the incident response for this operational period and for the duration of the incident. Include alternatives.
4.	Operational Period Command Emphasis	Enter clear, concise statements for safety message, priorities, and key command emphasis/decisions/directions. Enter information such as known safety hazards and specific precautions to be observed during this operational period. If available, a safety message should be referenced and attached. At the bottom of this box, enter the location where approved Site Safety Plan is available for review.
5.	Site Safety Plan Prepared By Date/Time	Note location of the approved Site Safety Plan. Enter the name of the Planning Section Chief completing the form. Enter date (month, day, year) and time prepared (24-hour clock).

NOTE: ICS 202-CG, Incident Objectives, serves as part of the Incident Action Plan (IAP)

1. Incident Name		2. Operational Period (Date/Time) From: _____ To: _____		ORGANIZATION ASSIGNMENT LIST ICS 203-CG																																																																																					
3. Incident Commander(s) and Staff <table style="width: 100%;"> <tr> <td style="width: 30%;">Agency</td> <td style="width: 30%;">IC</td> <td style="width: 40%;">Deputy</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> Safety Officer: _____ Information Officer: _____ Liaison Officer: _____		Agency	IC	Deputy																7. OPERATION SECTION <table style="width: 100%;"> <tr><td style="width: 60%;">Chief</td><td> </td></tr> <tr><td>Deputy</td><td> </td></tr> <tr><td>Deputy</td><td> </td></tr> <tr><td>Staging Area Manager</td><td> </td></tr> <tr><td>Staging Area Manager</td><td> </td></tr> <tr><td>Staging Area Manager</td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> a. Branch – Division Groups <table style="width: 100%;"> <tr><td style="width: 60%;">Branch Director</td><td> </td></tr> <tr><td>Deputy</td><td> </td></tr> <tr><td>Division Group</td><td> </td></tr> <tr><td>Division Group</td><td> </td></tr> <tr><td>Division Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> </table> b. Branch – Division/Groups <table style="width: 100%;"> <tr><td style="width: 60%;">Branch Director</td><td> </td></tr> <tr><td>Deputy</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> </table> c. Branch – Division/Groups <table style="width: 100%;"> <tr><td style="width: 60%;">Branch Director</td><td> </td></tr> <tr><td>Deputy</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> <tr><td>Division/Group</td><td> </td></tr> </table> d. Air Operations Branch <table style="width: 100%;"> <tr><td style="width: 60%;">Air Operations Br. Dir</td><td> </td></tr> <tr><td>Helicopter Coordinator</td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>				Chief		Deputy		Deputy		Staging Area Manager		Staging Area Manager		Staging Area Manager								Branch Director		Deputy		Division Group		Division Group		Division Group		Division/Group		Division/Group		Branch Director		Deputy		Division/Group		Division/Group		Division/Group		Division/Group		Division/Group		Branch Director		Deputy		Division/Group		Division/Group		Division/Group		Division/Group		Division/Group		Air Operations Br. Dir		Helicopter Coordinator			
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9. Prepared By: (Resources Unit)		Date/Time																																																																																							

ORGANIZATION ASSIGNMENT LIST (ICS 203-CG) Instructions for filling out the form

Purpose. The Organization Assignment List provides ICS personnel with information on the units that are currently activated and the names of personnel staffing each position/unit. It is used to complete the Incident Organization Chart (ICS form 207-CG) which is posted on the Incident Command Post display. An actual organization will be event-specific. **Not all positions need to be filled.** The size of the organization is dependent on the magnitude of the incident and can be expanded or contracted as necessary.

Preparation. The Resources Unit prepares and maintains this list under the direction of the Planning Section Chief.

Note: Depending on the incident, the Intelligence and Information function may be organized in several ways: 1) within the Command Staff as the Intelligence Officer; 2) As an Intelligence Unit in Planning Section; 3) As an Intelligence Branch or Group in the Operations Section; 4) as a separate General Staff Intelligence Section; and 5) as an Intelligence Technical Specialist. The incident will drive the need for the Intelligence and Information function and where it is located in the ICS organization structure. The Intelligence and information function is described in significant detail in NIMS and in the Coast Guard Incident Management Handbook (IMH).

Distribution. The Organization Assignment List is duplicated and attached to the Incident Objectives form (ICS 202-CG) and given to all recipients of the Incident Action Plan. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies. Record the start and end date and time.
3.	Incident Commander and Staff	Enter the names of the Incident Commander and Staff. Use at least the first initial and last name.
4.	Agency Representative	Enter the agency names and the names of their representatives. Use at least the first initial and last name.
5. thru 8.	Section	Enter the name of personnel staffing each of the listed positions. Use at least the first initial and last name. For Units, indicate Unit Leader and for Divisions/ Groups indicate Division/Group Supervisor. Use an additional page if more than three branches are activated. If there is a shift change during the specified operational period, list both names, separated by a slash.
9.	Prepared By Date/Time	Enter the name and position of the person completing the form Enter date (month, day, year) and time prepared (24-hour clock).

ASSIGNMENT LIST ICS 204-CG (Rev 04/04)

ASSIGNMENT LIST (ICS 204-CG)

Purpose. The Assignment List(s) informs Division and Group supervisors of incident assignments. Once the Unified Command and General Staff agree to the assignments, the assignment information is given to the appropriate Divisions and Groups.

Preparation. The Assignment List is normally prepared by the Resources Unit, using guidance from the Incident Objectives (ICS 202-CG), Operational Planning Worksheet (ICS 215-CG), and the Operations Section Chief. The Assignment List must be approved by the Planning Section Chief and Operations Section Chief. When approved, it is included as part of the Incident Action Plan (IAP). Specific instructions for specific resources may be entered on an ICS 204a-CG for dissemination to the field. A separate sheet is used for each Division or Group. The identification letter of the Division is entered in the form title. Also enter the number (roman numeral) assigned to the Branch.

Special Note. The Assignment List, ICS 204-CG submits assignments at the level of Divisions and Groups. The Assignment List Attachment, ICS 204a-CG shows more specific assignment information, if needed. The need for an ICS 204a-CG is determined by the Planning and Operations Section Chiefs during the Operational Planning Worksheet (ICS 215-CG) development.

Distribution. The Assignment List is duplicated and attached to the Incident Objectives and given to all recipients of the Incident Action Plan. In some cases, assignments may be communicated via radio/telephone/fax. All completed original forms MUST be given to the Documentation Unit.

Item #	Item Title	Instructions
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Branch	Enter the Branch designator.
4.	Division/Group/Staging	Enter the Division/Group/Staging designator.
5.	Operations Personnel	Enter the name of the Operations Chief, applicable Branch Director, and Division Supervisor.
6.	Resources Assigned	Each line in this field may have a separate Assignment List Attachment (ICS 204a-CG). Enter the following information about the resources assigned to Division or Group for this period:
	Identifier	List identifier
	Leader	Leader name
	Contact Information	Primary means of contacting this person (e.g., radio, phone, pager, etc.). Be sure to include area code when listing a phone number.
	# Of Persons	Total number of personnel for the strike team, task force, or single resource assigned.
	Reporting Info/Notes/Remarks	Special notes or directions, specific to this strike team, task force, or single resource. Enter an "X" check if an Assignment List Attachment (ICS 204a-CG) will be prepared and attached. The Planning and Operations Section Chiefs determine the need for an ICS 204a-CG during the Operational Planning Worksheet (ICS 215-CG) development.
7.	Work Assignment	Provide a statement of the tactical objectives to be achieved within the operational period by personnel assigned to this Division or Group.
8.	Special Instructions	Enter a statement noting any safety problems, specific precautions to be exercised, or other important information.
9.	Communications	Enter specific communications information (including emergency numbers) for this division /group. If radios are being used, enter function (command, tactical, support, etc.), frequency, system, and channel from the Incident Radio Communications Plan (ICS 205-CG). Note: Phone numbers should include area code.
10.	Prepared By	Enter the name of the person completing the form, normally the Resources Unit Leader.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).
11.	Reviewed by (PSC)	Enter date (month, day, year) and time prepared (24-hour clock).
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).
12.	Reviewed by (OSC)	Enter the name of the operations person reviewing the form, normally the Operations Section Chief.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

1. Incident Name		2. Operational Period (Date/Time)		ASSIGNMENT LIST ATTACHMENT	
		From: _____ To: _____		ICS 204a-CG	
3. Branch			4. Division/Group		
5. Strike Team/Task Force/Resource (Identifier)		6. Leader		7. Assignment Location	
8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations					
Approved Site Safety Plan Located at: _____					
9. Other Attachments (as needed)					
<input type="checkbox"/> Map/Chart		<input type="checkbox"/> Weather Forecast/Tides/Currents		<input type="checkbox"/> _____	
<input type="checkbox"/> _____		<input type="checkbox"/> _____		<input type="checkbox"/> _____	
10. Prepared by: _____ Date/Time _____		11. Reviewed by (PSC): _____ Date/Time _____		12. Reviewed by (OSC): _____ Date/Time _____	

DOT X Ref	EPA X Ref	USCG X Ref
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INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205-CG)

Special Note. This form, ICS 205-CG, is used to provide, in one location, information on all radio frequency assignments down to the Division/Group level for each operational period; whereas, the Communications List, ICS 205a-CG is used to list methods of contact for personnel assigned to the incident (radio frequencies, phone numbers, pager numbers, etc.).

Purpose. The Incident Radio Communications Plan is a summary of information obtained from the Radio Requirements Worksheet (ICS 216) and the Radio Frequency Assignment Worksheet (ICS 217). Information from the Radio Communications Plan on frequency assignments is normally noted on the appropriate Assignment List (ICS 204-CG).

Preparation. The Incident Radio Communications Plan is prepared by the Communications Unit Leader and given to the Planning Section Chief. Detailed instructions on the preparation of this form may be found in ICS Publication 223-5, Communications Unit Position Manual.

Distribution. The Incident Radio Communications Plan is duplicated and given to all recipients of the Incident Objectives form, including the Incident Communications Center. Information from the plan is placed on Assignment Lists. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Basic Radio Channel System Channel Function Frequency Assignment Remarks	Enter the following information about radio channel use: Radio cache system(s) assigned and used on the incident. Radio channel numbers assigned. Function each channel is assigned (e.g., command, support, division tactical, and ground-to-air). Radio frequency tone number assigned to each specified function (e.g., 153.400) ICS organization assigned to each of the designated frequencies (e.g., Branch I, Division A). This section should include narrative information regarding special situations.
4.	Prepared By	Enter the name of the Communications Unit Leader preparing the form.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

[illegible]

COMMUNICATIONS LIST (ICS 205a-CG)

Special Note. This optional form is used in conjunction with the Incident Radio Communications Plan, ICS 205-CG. Whereas the ICS 205-CG is used to provide information on all radio frequencies down to the Division/Group level, the Communications List, ICS 205a-CG, lists methods of contact for personnel assigned to the incident (radio frequencies, phone numbers, pager numbers, etc.), and functions as an incident directory.

Purpose. The Communications List records methods of contact for personnel on scene.

Preparation. The Communications List can be filled out during check-in and is maintained and distributed by Communications Unit personnel.

Distribution. The Communications List is distributed within the ICS and posted, as necessary. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Basic Local Comms Information Assignment Name Method(s) of contact	Enter the communications methods assigned and used for each assignment. Enter the ICS Organizational assignment. Enter the name of the contact person for the assignment. Enter the radio frequency, telephone number(s), etc. for each assignment.
4.	Prepared By Date/Time	Enter the name of the Communications Unit Leader preparing the form. Enter date (month, day, year) and time prepared (24-hour clock).

[illegible]

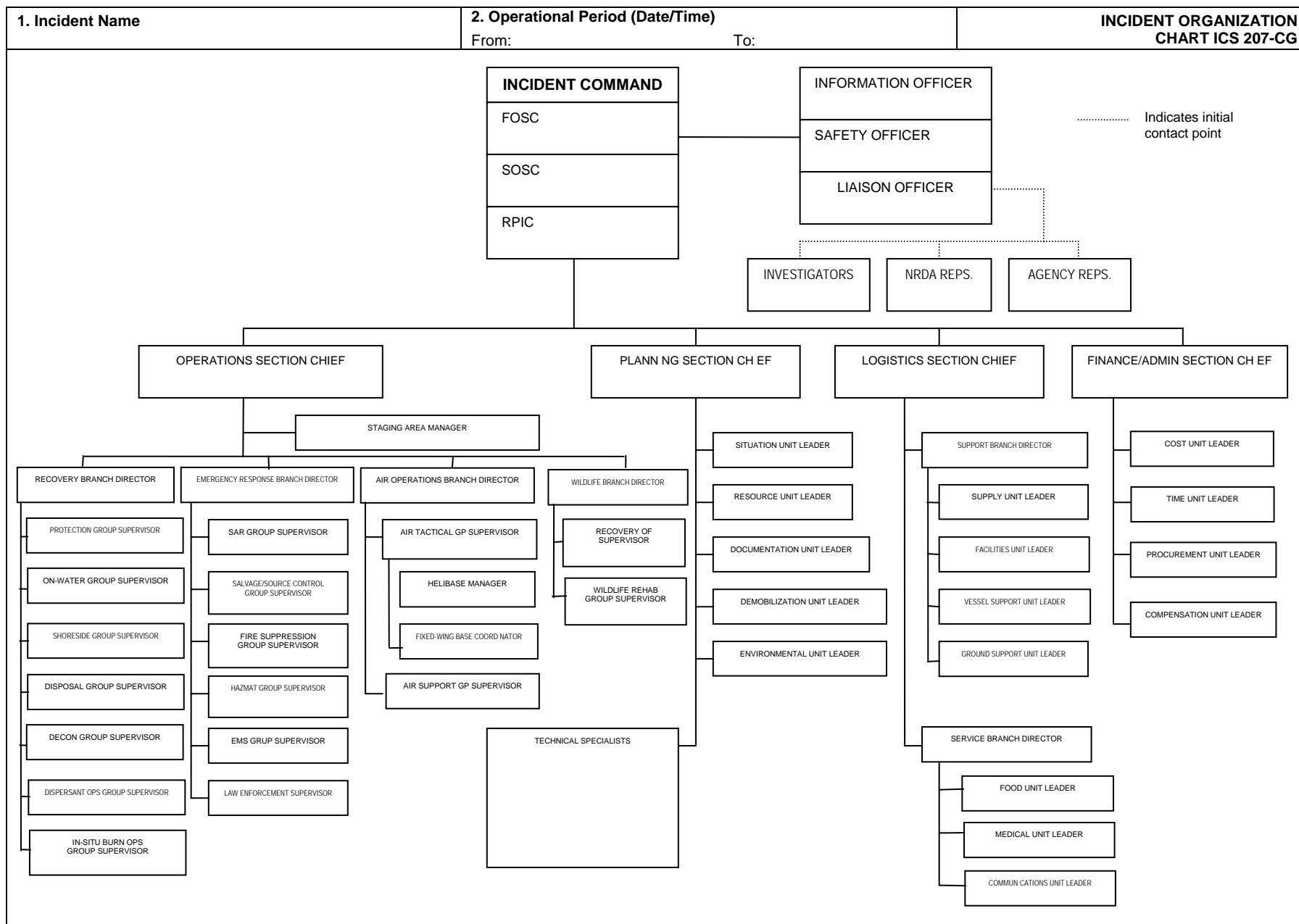
MEDICAL PLAN (ICS 206-CG)

Purpose. The Medical Plan provides information on incident medical aid stations, transportation services, hospitals, and medical emergency procedures.

Preparation. The Medical Plan is prepared by the Medical Unit Leader and reviewed by the Safety Officer.

Distribution. The Medical Plan may be attached to the Incident Objectives (ICS 202-CG), or information from the plan pertaining to incident medical aid stations and medical emergency procedures may be taken from the plan and noted on the Assignment List (ICS 204-CG) or on the Assignment List Attachment (ICS 204a-CG). All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Medical Aid Stations	Enter name, location, and telephone number of the medical aid station(s) (e.g., Cajon Staging Area, Cajon Camp Ground) and indicate if paramedics are located at the site.
4.	Transportation	List name and address of ambulance services. Provide phone number and indicate if ambulance company has paramedics.
5.	Hospitals	List hospitals that could serve this incident. Enter hospital name, address, phone number, the travel time by air and ground from the incident to the hospital, and indicate if the hospital has a burn center and/or a helipad.
6.	Medical Emergency Procedures	Note any special emergency instructions for use by incident personnel.
7.	Prepared By Date/Time	Enter the name of the Medical Unit Leader preparing the form. Enter date (month, day, year) and time prepared (24-hour clock).
8.	Reviewed By Date/Time	Enter the name of the Safety Officer who must review the plan. Enter date (month, day, year) and time reviewed (24-hour clock).



1. Incident Name		2. Operational Period (Date / Time) From: To: Time of Report		INCIDENT STATUS SUMMARY ICS 209-CG	
3. Type of Incident					
<input type="checkbox"/> Oil Spill	<input type="checkbox"/> HAZMAT	<input type="checkbox"/> AMIO			
<input type="checkbox"/> SAR/Major SART	<input type="checkbox"/> SI/Terrorism	<input type="checkbox"/> Natural Disaster			
<input type="checkbox"/> Marine Disaster	<input type="checkbox"/> Civil Disturbance	<input type="checkbox"/> Military Outload			
<input type="checkbox"/> Planned Event	<input type="checkbox"/> Maritime HLS/Prevention	<input type="checkbox"/>			
4. Situation Summary as of Time of Report:					
5. Future Outlook/Goals/Needs/Issues:					
6. Safety Status/Personnel Casualty Summary					
	Since Last Report	Adjustments To Previous Op Period	Total		
Responder Injury					
Responder Death					
Public Missing (Active Search)					
Public Missing (Presumed Lost)					
Public Uninjured					
Public Injured					
Public Dead					
Total Public Involved					
7. Property Damage Summary					
Vessel		\$			
Cargo		\$			
Facility		\$			
Other		\$			
8. Attachments with clarifying information					
<input type="checkbox"/> Oil/HAZMAT	<input type="checkbox"/> SAR/LE	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Marine Disaster	<input type="checkbox"/> Civil Disturbance	<input type="checkbox"/> Military Outload			

9. Equipment Resources

Kind	Notes	# Ordered	# Available	# Assigned	# Out of Service
USCG Assets					
Aircraft – Helo					
Aircraft – Fixed Wing					
Vessels – USCG Cutter					
Vessels – Boat					
Vehicles – Car					
Vehicles – Truck					
Pollution Equip – VOSS/SORS					
Pollution Equip – Portable Storage					
Pollution Equip – Boom					
Non-CG/Other Assets					
Aircraft – Helo					
Aircraft – Fixed Wing					
Vessels – SAR/LE Boat					
Vessels – Work/Crew Boat					
Vessels – Tug/Tow Boat					
Vessels – Pilot Boat					
Vessels – Deck Barge					
Vessels –					
Vehicles – Car					
Vehicles – Ambulance					
Vehicles – Truck					
Vehicles – Fire/Rescue/HAZMAT					
Vehicles – Vac/Tank Truck					
Vehicles –					
Pollution Equip – Skimmers					
Pollution Equip – Tank Vsl/ Barge					
Pollution Equip – Portable Storage					
Pollution Equip – OSRV					
Pollution Equip – Boom					
Pollution Equip –					

10. Personnel Resources

Agency	Total # of People
USCG	
DHS (other than USCG)	
NOAA	
FBI	
DOD (USN Supsalv, CST, etc.)	
DOI (US Fish & Wildlife, Nat Parks, BLM, etc.)	
RP	
State	
Local	
Total Personnel Resources Used From all Organizations:	

11. Prepared by:**Date/Time Prepared:**

1. Incident Name	2. Operational Period (Date / Time) From: To: Time of Report	ICS 209-CG OIL/HAZMAT ATTACHMENT
3. HAZMAT/Oil Spill Status (Estimated, in gallons)		
Common Name(s):		
UN Number:	<input type="checkbox"/> Secured	<input type="checkbox"/> Unsecured
CAS Number:	Remaining Potential (bbl):	
	Rate of Spillage (bbl/hr):	
	Adjustments To Previous Operational Period	Since Last Report
Volume Spilled/Released		Total
Mass Balance - HAZMAT/Oil Budget		
Recovered HAZMAT/Oil		
Evaporation/Airborne		
Natural Dispersion		
Chemical Dispersion		
Burned		
Floating, Contained		
Floating, Uncontained		
Onshore		
Total HAZMAT/Oil accounted for:	N/A	N/A
Comments:		
4. HAZMAT/Oil Waste Management (Estimated, Since Last Report)		
	Recovered	Disposed
HAZMAT/Oil (bbl)		Stored
Oily Liquids (bbl)		
Liquids (bbl)		
Oily Solids (tons)		
Solids (tons)		
Comments:		
5. HAZMAT/Oil Shoreline Impacts (Estimated in miles)		
Degree of Impact	Affected	Cleaned
Light		To Be Cleaned
Medium		
Heavy		
Total		
Comments:		
6. HAZMAT/Oil Wildlife Impacts (Since Last Report)		
Type of Wildlife	Captured	Cleaned
Birds		Released
Mammals		DOA
Reptiles		Died in Facility
Fish		Euthanized
		Other
Total		
Comments:		
7. Prepared by:		Date/Time Prepared:

1. Incident Name		2. Operational Period (Date / Time) From: To: Time of Report		ICS 209-CG SAR/LE ATTACHMENT	
3. Evacuation Status					
	Since Last Report	Adjustments To Previous Operational Period	Total		
Total to be Evacuated					
Number Evacuated					
4. Migrant Interdiction Status					
	Since Last Report	Adjustments To Previous Op Period	Total		
Vessels Interdicted					
Migrants Interdicted at Sea					
Migrants Interdicted Ashore					
Injured					
MEDEVAC'd					
Deaths					
Migrants Repatriated					
5. Sorties/Patrols Summary (List of Sorties Since Last Report)					
<u>Air</u>		Since Last Report	Total		
Number of Sorties/Patrols					
Area Covered (square miles)					
Total Time On-Scene (In Hours)					
<u>Surface</u>		Since Last Report	Total		
Number of Sorties/Patrols					
Area Covered (square miles)					
Total Time On-Scene (In Hours)					
6. Use of Force Summary					
<u>Category</u>		Since Last Report	Total		
III - Soft Empty Hand Control					
IV - Hard Empty Hand Control					
V - Intermediate Weapons					
VI - Deadly Force					
VSL - Force to Stop Vessel from Cutter/Boat					
A/C - Force to Stop Vessel From Aircraft					
Arrests					
Seizures					
Deaths					
7. Operational Controls Summary					
<u>Currently In Force</u>					
Type	Initiating Unit	Initiated Date	Activity #		
<u>Removed Since Last Report</u>					
Type	Initiating Unit	Initiated Date	Date Removed	Activity #	
18. Prepared by:			Date/Time Prepared:		

INCIDENT STATUS SUMMARY (ICS FORM 209-CG)

Purpose. The Status Summary:

1. Is used by Situation Unit personnel for posting information on Status Boards or attaching as a file to the MISLE Case.
2. Is duplicated and provided to Command Staff members, giving them basic information for planning for the next operational period.
3. Provides information to the Information Officer for preparing news media releases.
4. Summarizes incident information for local and off-site coordination/operations centers.

Preparation. The Situation Unit prepares the Status Summary. Resources information should be obtained from the Resources Unit. It may be scheduled for presentation to the Planning Section Chief and other General Staff members prior to each Planning Meeting and may be required at more frequent intervals by the Unified Command or Planning Section Chief. Suggested sources of information are noted in brackets.

Note: The values on the ICS form 209-CG are the **best available estimates at the Time of Report** (Item # 2 on form). This form is usually in high demand and should be filled out early and often. A suggested source within the ICS organization is noted in brackets [] at the top right of each section of the form. **All fields need not be completed in order to distribute the form.**

Distribution. When completed, the form is duplicated and copies are distributed to the Unified Command and staff, and all Section Chiefs, Planning Section Unit Leaders, and the Joint Information Center. It is also posted on a status board located at the ICP. All completed original forms **MUST** be given to the Documentation Unit.

How to Save and Use the Word Template Form:

The 209 template (.dot file) can be edited to match most incident situations and can be saved into the Word template directory. Open the blank 209 (ICS 209 CG.dot) – do not add any content. Save the blank in the Templates directory. Create a new 209 from File>new picking the 209 template. Type in the file to add any desired content and use “save as” to save the work using a new file name. The file will automatically become a .doc file.

Comments: Please send comments/corrections about this form to the ICS Program Manager, Ms. Kristy Plourde, email: kplourde@tcyorktown.uscg.mil

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Period Covered by Report	Enter the date and time interval for which the report applies. Use 24-hour clock for all times.
	Time of Report	Enter time for which this information applies. Enter the Time (24-hour clock) the form was prepared.
3.	Type of Incident	Indicate (check box) and/or fill-in the type of incident(s).
4.	Situation Summary	Summary of current situation at time of report.
5.	Future Outlook	This section is for the IC/UC to discuss/project their future outlook, goals, requirements, needs and issues.
6.	Safety Status/Personnel Casualty	This information pertains to responders and assisted public personnel. Indicate the number of serious injuries, death, and missing. Values entered in the column labeled since Last Report are from the start of the

- Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
7. Property Damage Enter estimated dollar values for each item, if known.
 8. Attachments Indicate (check box) and/or fill-in the attachment(s) the help further clarify the incident status.
 9. Equipment Resources Indicate the number of each type of resource in each status category. There are blank lines below each general type of resource for additional equipment.

Ordered Available Assigned Out of Service	Ordered but not yet arrived/available. Arrived on scene, stored in staging, not assigned to any task, available for use. Assigned to a specific task. Not working and not assigned to any task (e.g., skimmer being repaired, boom broken, personnel off-duty for rest).
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 10. Personnel Resources Indicate, by agency, the numbers of personnel assigned. There are blank lines for additional personnel, as needed.
 11. Prepared By Enter name and title of the person preparing the form, normally the Situation Unit Leader.

OIL/HAZMAT ATTACHMENT

1. Incident Name Enter the name assigned to the incident.
2. Period Covered by Report Enter the date and time interval for which the report applies. Use 24-hour clock for all times.

Time of Report	Enter time for which this information applies. Enter the Time (24-hour clock) the form was prepared.
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3. Spill Status This information is only tracked if there is spilled HAZMAT or Oil. Enter Common Name(s) of the released substance or spilled oil (i.e. Ethyl Alcohol/Ethanol or No. 2 Fuel Oil/Light Fuel Oil). Enter UN number and CAS Registry number, if known. Indicate whether the spill source is secured or unsecured (check box) and estimate the remaining potential and the rate of spillage discharge or release. Enter the estimated amounts in barrels for each category. Values entered in the column labeled Since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).

Mass Balance	This information is only tracked if there is spilled HAZMAT or Oil whether recovered, evaporated, dispersed, burned, floating, or on shore. The total of these estimates should approximate the total volume spilled, discharged, or released. Values for evaporation, dispersion, etc. can be obtained from the Environmental Unit and/or the Scientific Support Coordinator (SSC).
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4. Waste Management This information is only tracked if there is spilled HAZMAT or Oil. Enter the estimated amounts in barrels or tons for each category. Total HAZMAT/ Oil (bbl) is the sum of the estimate of HAZMAT/oil in oily

liquids and HAZAMT/oil in oily solids, and is the value to be entered under "Recovered HAZMAT/Oil" in Item 4.

5. Shoreline Impacts This information is only tracked if there is spilled HAZMAT or Oil. Enter the total miles in each category for each degree of oiling. Definitions for Light, Medium, and Heavy oiling can be obtained from the EUL/SSC and should be consistent throughout the incident.
6. Wildlife Impacts This information is only tracked after an animal is captured. Indicate the actual number of oiled wildlife in each category. Use numbers in parentheses to indicate the subtotal of threatened / endangered species included in the numbers given.
7. Prepared By Enter name and title of the person preparing the form, normally the Situation Unit Leader.

SAR/LE ATTACHMENT

1. Incident Name Enter the name assigned to the incident.
2. Period Covered by Report Enter the date and time interval for which the report applies. Use 24-hour clock for all times.
Time of Report Enter time for which this information applies. Enter the Time (24-hour clock) the form was prepared.
3. Evacuation Status This information is only tracked if the incident involves evacuation of personnel. Values entered in the column labeled Since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
4. Migrant Interdiction Status This information is only tracked if the incident involves Migrant Interdiction. Values entered in the column labeled Since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
5. Sorties/Patrols This information is only tracked if the incident involves sorties tracked in MISLE Incident Management Activity. List Sorties since last report both Air and Surface. Values entered in the column labeled since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
6. Use of Force This information is only tracked if the incident involves Use of Force activities. Values entered in the column labeled since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
7. Operational Controls This information is only tracked if the incident involves Operational Control activities initiated, in force and removed.
8. Prepared By Enter name and title of the person preparing the form, normally the Situation Unit Leader.

DOT X Ref
EPA X Ref
USCG X Ref

CHECK-IN LIST			1. INC DENT NAME:				2. CHECK-IN LOCATION:				3. DATE/TIME:		
CHECK-IN INFORMATION													
4. LIST PERSONNEL (OVERHEAD) BY AGENCY NAME – OR LIST EQUIPEMENT BY THE FOLLOWING FORMAT: S=Supplies H=Helicopter O=Overhead VL=Vessels E=Equipment C=Crew A=Aircraft VH=Vehicle			5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	
AGENCY	RESOURCE IDENTIFIER	KIND	ORDER/ NUMBER	DATE/TIME CHECK-IN	LEADER'S NAME	TOTAL NO. PERSONNEL	INCIDENT CONTACT INFORMATION	INCIDENT LODGING INFO/ CONTACT INFO	HOME UNIT	METHOD OF TRAVEL	INCIDENT ASSIGNMENT	SENT TO RESTAT TIME/INT	
15. ICS 211-CG PAGE ____ of ____			16. PREPARED BY (Name and Position) USE BACK FOR REMARKS OR COMMENTS										

U.S. GPO: 1009-793-975

GENERAL MESSAGE

TO:

FROM

SUBJECT

POSITION

POSITION

DATE

MESSAGE:

DATE

TIME

SIGNATURE/POSITION

213 ICS 1/79
NFES 1336

PERSON RECEIVING GENERAL MESSAGE KEEP THIS COPY

SENDER REMOVE THIS COPY FOR YOUR FILES

Resource Request Message

ICS-213 RR CG (05/06)

1. Incident Name:		2. Date/Time:		3. Resource Request No:				
4. ORDER Note: Use additional forms when requesting different resource sources of supply								
Requestor	a. Qty.	b. Kind	c. Type	d. Detailed item description (Vital characteristics, brand, specs, experience, etc. & if applicable describe purpose/use, attach diagrams, & other amplifying info)	e. Requested Reporting Location:		f. ETA (LSC):	g. Cost (FSC):
5. Suggested source(s) of Supply - POC phone no. if known & suitable substitutes:								
6. Requested by Name/Position/Phone:			7. Date/Time:	8. Section Chief Approval:		Date/Time:		
<input type="checkbox"/> 9. Check box if request is for tactical/personnel resources & Submit to RESL, otherwise submit directly to Logistics				10. RESL Review/Signature: <input type="checkbox"/> Resources as noted are Available <input type="checkbox"/> Resources Not Available				
Logistics	11. Logistics Order No.:			12. Supplier Name/Phone/Fax/Email:				
	13. Notes:							
	14. Approval Signature of Auth Logistics Rep:				15. Date/Time:			
16. Order placed by (check box):				<input type="checkbox"/> SPUL	<input type="checkbox"/> PROC			
Finance	17. Reply/Comments from Finance:							
	18. Finance Section Signature:				19. Date/Time:			

Full Instructions on back page. Requestor fills out # 1-9 & keeps yellow copy (bottom). If applicable, RESL reviews if resource available & signs # 10. Logistics fills in remainder of # 4 & # 10-15 & keeps pink copy. Finance, if needed fills out appropriate items & keeps green copy. Blue original is returned to RESL for tactical/personnel or requestor for non-tactical. White copy goes to DOCL.

Instructions for filling out the ICS-213RR CG Form (5/06)

REQUESTOR: The requestor must fill in Blocks 1 through 9:

Block # 1	Incident name: This is the same as the name stated on the ICS-201 Form and/or the Incident Action Plan (IAP).
Block # 2	Current date and time when submitting request
Block # 3	Resource Request Number: This is to be assigned by the Section submitting request (i.e. CMD, OPS, PLAN, LOG, FIN)
Block # 4	Fill in blocks 4a through 4e. <u>Items requested</u> : Must include Quantity, Kind and Type (if applicable) and detailed description of requirements. BE SPECIFIC AS POSSIBLE . The request should focus on capability rather than naming the brand or specific item (e.g. helicopter capable of carrying 4 personnel from location A to B rather than requesting a Coast Guard H-65 helicopter). This gives the logistics section the ability to find the best resource to meet the need. <u>4.e Requested Reporting Location/Date/Time</u> : This is self-explanatory and is required for ordering official. <u>Leave blocks 4.f. ETA (LSC) and 4.g. Cost (FSC) blank</u> . These will be filled in later by Logistics and Finance.
Block # 5	Suggested sources of supply and suitable substitutes: Enter applicable information if known.
Block # 6 & 7	Requestor: Print Name and Signature and date/time.
Block # 8	Approval: This must be approved by the Section Chief or Deputy Section Chief.
Block # 9	Check box if request is for tactical or personnel resource(s) and submit request to Resources Unit Leader (RESL) to review and approve since RESL tracks all tactical and personnel resources.

Request goes to RESOURCES UNIT if requesting Tactical/Personnel Resource(s):

Block # 10	Resources reviews request and checks to see if resource is available. If the resource is <u>available</u> , reassigns resource as appropriate and sends request back to requester with information noted as to reporting time, etc. The request form is then sent to Documentation Unit Leader (DOCL) for filing. If the resource is <u>not available</u> , RESL sends request to Logistics.
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LOGISTICS SECTION: The following blocks are to be filled out by the Supply Unit (SPUL).

Block # 11	Logistics Order Number: To be assigned by Supply Unit.
Block # 12	Supplier Point of Contact, Phone Number and Fax Number: This information is needed for Credit Card purchases and/or Purchase Orders.
Block # 13	Notes: Enter applicable information as need for request.
Block # 4	ETA and Cost: SPUL or PROC fills in Estimated time of arrival (ETA) when determined and cost if known.
Block # 14 & 15	Approval: This must be approved by the Logistics Section Chief or Deputy Logistics Section Chief, printed name and signature is required with Date and Time of approval. Bottom Copy (pink) is retained.

FINANCE SECTION: The following blocks are to be filled out by the Procurement Unit (PROC), if applicable.

Block # 16	Indicates who is to place order as necessary.
Block # 17	Comments concerning request from Finance Section Chief or Deputy Finance Section Chief.
Block # 18 & 19	Approval: This must be approved by the Finance Section Chief or Deputy Section Chief, printed name and signature is required with Date and Time of approval. Bottom copy (green) is retained.
FILING	Original blue copy is returned to RESL for tactical/personnel resources ordered, and the requester for non-tactical. RESL will inform requester of status of request when form received. The white copy is sent to DOCL.

Note: Cost associated requests will not be ordered without approval from the Finance Section Chief or Deputy Finance Section Chief.

Form Filing: Blue (Original) – final disposition to RESL or originator for non-tactical resources, White (copy 1) to DOCL, Green (copy 2) to FIN, Pink (copy 3) to LOG, Yellow (copy 4) to Originator

1. Incident Name		2. Operational Period (Date/Time)		UNIT LOG ICS 214-CG	
		From:		To:	
3. Unit Name/Designators			4. Unit Leader (Name and ICS Position)		
5. Personnel Assigned					
NAME		ICS POSITION		HOME BASE	
6. Activity Log (Continue on Reverse)					
TIME		MAJOR EVENTS			
7. Prepared by:					
Date/Time					

[illegible]

UNIT LOG (ICS FORM 214-CG)

Purpose. The Unit Log records details of unit activity, including strike team activity or individual activity. These logs provide the basic reference from which to extract information for inclusion in any after-action report.

Preparation. A Unit Log is initiated and maintained by Command Staff members, Division/Group Supervisors, Air Operations Groups, Strike Team/Task Force Leaders, and Unit Leaders. Completed logs are submitted to supervisors who forward them to the Documentation Unit.

Distribution. The Documentation Unit maintains a file of all Unit Logs. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Check-In Location	Enter the time interval for which the form applies. Record the start and end date and time.
3.	Unit Name/Designators	Enter the title of the organizational unit or resource designator (e.g., Facilities Unit, Safety Officer, Strike Team).
4.	Unit Leader	Enter the name and ICS Position of the individual in charge of the Unit.
5.	Personnel Assigned	List the name, position, and home base of each member assigned to the unit during the operational period.
6.	Activity Log	Enter the time and briefly describe each significant occurrence or event (e.g., task assignments, task completions, injuries, difficulties encountered, etc.)
7.	Prepared By	Enter name and title of the person completing the log. Provide log to immediate supervisor, at the end of each operational period.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

USCG X Ref

DOT X Ref

EPA X Ref

USCG X Ref

1. Incident Name			2. Operational Period (Date / Time) From: _____ To: _____				AIR OPERATIONS SUMMARY ICS 220-CG																											
3. Distribution <input type="checkbox"/> Fixed-Wing Bases _____ <input type="checkbox"/> Helibase _____																																		
4. Personnel and Communications <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 40%;"></th> <th style="width: 20%; text-align: center;">Air Operations Director</th> <th style="width: 20%; text-align: center;">Air / Air Frequency</th> <th style="width: 20%; text-align: center;">Air / Ground Frequency</th> </tr> <tr> <td>Air Operations Director</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Air Tactical Supervisor</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Air Support Supervisor</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Helicopter Coordinator</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Fixed-Wing Coordinator</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </table>							Air Operations Director	Air / Air Frequency	Air / Ground Frequency	Air Operations Director	_____	_____	_____	Air Tactical Supervisor	_____	_____	_____	Air Support Supervisor	_____	_____	_____	Helicopter Coordinator	_____	_____	_____	Fixed-Wing Coordinator	_____	_____	_____	5. Remarks (Spec. Instructions, Safety Notes, Hazards, Priorities) <div style="height: 100px;"></div>				
	Air Operations Director	Air / Air Frequency	Air / Ground Frequency																															
Air Operations Director	_____	_____	_____																															
Air Tactical Supervisor	_____	_____	_____																															
Air Support Supervisor	_____	_____	_____																															
Helicopter Coordinator	_____	_____	_____																															
Fixed-Wing Coordinator	_____	_____	_____																															
6. Location / Function	7. Assignment		8. Fixed-Wing		9. Helicopter		10. Time		11. Aircraft Assigned	12. Operating Base																								
			NO.	TYPE	NO.	TYPE	Available	Commence																										
13. TOTALS																																		
14. Air Operation Support Equipment						15. Prepared by _____ Date / Time _____																												
AIR OPERATIONS SUMMARY										ICS 220-CG (Rev.07/04)																								

AIR OPERATIONS SUMMARY (ICS 220-CG)

Purpose. The Air Operations Summary provides the Air Operations Branch with the number, type, location, and specific assignments of aircraft.

Preparation. The Operations Section Chief or the Air Operations Branch Director completes the summary during each Planning Meeting. General air resource assignment information is obtained from the Operational Planning Worksheet (ICS 215-CG). The Air and Fixed-Wing Support Groups provide specific designators of the air resources assigned to the incident.

Distribution. After the summary is completed by Air Operations personnel (except item 11), the form is given to the Air Support Group Supervisor, who completes the form by indicating the designators of the helicopters and fixed-wing aircraft assigned missions during the specified operational period. This information is provided to Air Operations personnel who, in turn, give the information to the Resources Unit. All completed original forms MUST be given to the Documentation Unit.

Item #	Item Title	Instructions
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Distribution	Check the block and enter the time and date when ICS 220-CG and attachments were sent to all fixed-wing bases and helibases supporting the incident.
4.	Personnel and Communications	List the names of those assigned to each position, and the air-air and air-ground frequencies to be used.
5.	Remarks	Enter the special instructions or information, including safety notes, hazards, and priorities for Air Operations personnel.
6.	Location/Function	Enter the assigned location and function of the aircraft.
7.	Assignment	Enter the scope of work the aircraft is assigned to complete.
8.	Fixed Wing	Indicate the number and type of fixed-wing aircraft available for this Location / Function.
9.	Helicopters	Indicate the number and type of helicopters available for this Location / Function.
10.	Time	Indicate when aircraft will be available for use and when operations commence (use 24 hour clock).
11.	Aircraft Assigned	Enter the designators of the aircraft assigned. Gather information from Resources Unit, helibases, and fixed-wing bases.
12.	Operating Base	Enter the base (helibase, helispot, fixed-wing base) from which each air resource is expected to initiate operations.
13.	Totals	Enter the total number of fixed-wing and helicopter aircraft assigned to the incident in the Number columns. Enter the total number of each type of aircraft assigned in the Type columns.
14.	Air Operations Support Equipment	List the designators and location of other support resources assigned to Air Operations.
15.	Prepared By	Enter name and title of the person preparing the form.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

1. Incident Name	2. Operational Period (Date / Time) From: _____ To: _____	DEMOB. CHECK-OUT ICS 221-CG
3. Unit / Personnel Released		4. Release Date / Time
5. Unit / Personnel You and your resources have been released, subject to signoff from the following: (Demob. Unit Leader "X" appropriate box(es)) Logistics Section <input type="checkbox"/> Supply Unit _____ <input type="checkbox"/> Communications Unit _____ <input type="checkbox"/> Facilities Unit _____ <input type="checkbox"/> Ground Unit _____ Planning Section <input type="checkbox"/> Documentation Unit _____ Finance / Admin. Section <input type="checkbox"/> Time Unit _____ Other <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____		
6. Remarks _____ _____ _____ _____		
7. Prepared by: _____		Date / Time _____
DEMOB. CHECK-OUT		ICS 221-CG (Rev.07/04)

DEMOB. CHECK-OUT (ICS 221-CG)

Purpose. This form provides the Planning Section information on resource releases from the incident.

Preparation. The Demobilization Unit Leader or the Planning Section initiates this form. The Demobilization Unit Leader completes the top portion of the form after the resource supervisor has given written notification that the resource is no longer needed.

Distribution. The individual resource will have the unit leader initial the appropriate box(es) in item 5 prior to release from the incident. After completion, the form is returned to the Demobilization Unit Leader or the Planning Section. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Strike Team / Unit / Personnel Released	Enter name of Strike Team, Unit or personnel being released.
4.	Release Date/Time	Enter date (month, day, year) and time (24-hour clock) of anticipated release.
5.	Strike Team / Unit / Personnel	Demobilization Unit Leader will enter an "X" in the box to the left of those units requiring check-out. Identified Unit Leaders are to initial to the right to indicate release. NOTE: Blank boxes are provided for any additional unit requirements as needed, (e.g., Safety Officer, Agency Rep., etc.)
6.	Remarks	Enter any additional information pertaining to demobilization or release (e.g., transportation needed, destination, etc.).
7.	Prepared By	Enter name and title of the person preparing the form.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

1. Incident Name		2. Operational Period (Date/Time) From: _____ To: _____		DAILY MEETING SCHEDULE ICS 230-CG
3. Meeting Schedule (Commonly-held meetings are included)				
Date/ Time	Meeting Name	Purpose	Attendees	Location
	Unified Command Objectives Meeting	Review/ identify objectives for the next operational period.	Unified Command members	
	Command & General Staff Meeting	IC/UC gives direction to Command & General staff including incident objectives and priorities	IC/UC, Command & General Staff	
	Tactics Meeting	Develop/Review primary and alternate Strategies to meet Incident Objectives for the next Operational Period.	PSC, OSC, LSC, RESL & SITL	
	Planning Meeting	Review status and finalize strategies and assignments to meet Incident Objectives for the next Operational Period.	Determined by the IC/UC	
	Operations Briefing	Present IAP and assignments to the Supervisors / Leaders for the next Operational Period.	IC/UC, Command & General Staff, Branch Directors, Div/Gru Sups., Task Force/Strike Team Leaders and Unit Leaders	
4. Prepared by: (Situation Unit Leader)			Date/Time	
<div>DAILY MEETING SCHEDULE</div> <div>ICS 230-CG (Rev.07/04)</div>				

DAILY MEETING SCHEDULE (ICS 230-CG)

Purpose. The Daily Meeting Schedule records information about the daily scheduled meeting activities.

Preparation. This form is prepared by the Situation Unit Leader and coordinated through the Unified Command for each operational period or as needed. Commonly-held meetings are already included in the form. Additional meetings, as needed, can be entered onto the form in the spaces provided. Time and location for each meeting must be entered. If any of these standard meetings are not scheduled, they should be crossed out on the form.

Distribution. After coordination with the Unified Command, the Situation Unit Leader will duplicate the schedule and post a copy at the Situation Status Board and distribute to the Command Staff, Section Chiefs, and appropriate Unit Leaders. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Meeting Schedule	For each scheduled meeting, enter the date/time, meeting name, purpose, attendees, and location. Note: Commonly-held meetings are included in the form. Additional meetings, as needed, can be entered onto the form in the spaces provided. Time and location for each meeting must be entered. If any of the standard meetings are not scheduled, they should be deleted from the form (normally the Situation Unit Leader).
4.	Prepared By	Enter name and title of the person preparing the form, normally the Situation Unit Leader.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

1. Incident Name		2. Operational Period (Date/Time) From: To:		RESOURCES AT RISK SUMMARY ICS 232-CG	
3. Environmentally-Sensitive Areas and Wildlife Issues					
Site #	Priority	Site Name and/or Physical Location		Site Issues	
Narrative					
4. Archaeo-cultural and Socio-economic Issues					
Site #	Priority	Site Name and/or Physical Location		Site Issues	
Narrative					
5. Prepared by: (Environmental Unit Leader)				Date/Time	
RESOURCES AT RISK SUMMARY				ICS 232-CG (Rev.07/04)	

RESOURCES AT RISK SUMMARY (ICS 232-CG)

Purpose. The Resources at Risk Summary provides information about sites in the incident area which are sensitive due to environmental, archaeo-cultural, or socio-economic resources at risk, and identifies incident-specific priorities and issues. The information recorded here may be transferred to ICS 232a-CG, which acts as a key to the Area Contingency Plan (ACP) or Geographic Response Plan (GRP) site numbers shown on the Situation Map.

Preparation. The Environmental Unit Leader, with input from resource trustees, will complete this form for each operational period. It should be updated prior to the Planning Meeting.

Distribution. This form must be forwarded to the Planning Section Chief for possible inclusion in the IAP. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Env- Sensitive Area & Wildlife Issues	
	Site Number	Enter site number. Can come from Area Contingency Plan (ACP) or Geographic Response Plan (GRP) or can be created during an incident.
	Priority	Priority specific to this incident. Can come from an ACP/GRP or can be created during an incident.
	Site Name and/or Physical Location	Name of the site (e.g., Marsh Pt., Glacier Creek, etc.) and/or physical location (e.g., address, lat/long, landmarks, etc.).
	Site Issues	Environmental concerns associated with this site and season.
	Narrative	Use the Narrative section to clarify any issues.
4.	Archaeo-cultural and Socio-economic Issues	
	Site Number	Enter site number. Can come from an ACP/GRP or can be created during an incident.
	Priority	Priority specific to this incident. Can come from an ACP/GRP or can be created during an incident.
	Site Name and/or Physical Location	Name of the site (e.g., Marsh Pt., Glacier Creek, etc.) and/or physical location (e.g., address, lat/long, landmarks, etc.).
	Site Issues	Archaeo-cultural or socio-economic concerns associated with this site and season.
	Narrative	Use the Narrative section to clarify any issues.
5.	Prepared By	Enter name and title of the person preparing the form (normally the Environmental Unit Leader).
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

1. Incident Name		2. Operational Period (Date/Time)		ACP Site Index ICS 232a-CG
		From: To:		
3. Index to ACP/GRP sites shown on Situation Map				
Site #	Priority	Site Name and/or Physical Location	Action	Status
Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.				
4. Prepared by:			Date/Time	
ACP Site Index			ICS 232a-CG (Rev.07/04)	

ACP SITE INDEX (ICS 232a-CG)

Special Note. This optional form is designed to be a key to the site numbers or site names shown on the Situation Map. The information on priorities for environmentally-sensitive areas and archaeo-cultural and socio-economic issues from the ICS 232-CG may be transferred to ICS 232a-CG, which provides more information on the Area Contingency Plan (ACP) or Geographic Response Plan (GRP) site numbers or names shown on the Situation Map.

Purpose. If used, this form is posted next to the Situation Map, providing a key to the ACP/GRP sites shown on the map.

Preparation. The Situation Unit personnel responsible for the Situation Map prepare this form, using ICS 232-CG prepared by the Environmental Unit.

Distribution. This form is posted next to the Situation Map and copies of this form should accompany any distributed copies of the Situation Map. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Index to ACP/GRP sites	Enter site information from the Area Contingency Plan (ACP) or Geographic Response Plan (GRP) or other sources specific to this incident.
	Site Number	Can come from an Area Contingency Plan (ACP) or Geographic Response Plan (GRP) or can be created during an incident.
	Priority	Priority specific to this incident.
	Site Name and/or Physical Location	Name of the site (e.g., Marsh Pt., Glacier Creek, etc.) and/or physical location (e.g., address, lat/long, landmarks, etc.).
	Action	Actions to be taken for designated protection and collection strategies or for other sites identified specifically for this incident.
	Status	Status of site action implementation (e.g., scheduled, in progress, completed).
4.	Prepared By	Enter name and title of the person preparing the form.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

DOT X Ref
EPA X Ref
USCG X Ref

1. Incident Name					INCIDENT OPEN ACTION TRACKER ICS 233-CG			
2. No.	3. Item	4. For/POC	5. POC Briefed	6. Start Date	7. Status	8. Target Date	9. Actual Date	
1								
2								
3								
4								
5								
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7								
8								
9								
10								
11								
12								
13								
14								
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Open Actions Tracker (ICS 233-CG)

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	No.	Enter number of task in sequential order (1, 2, 3, ...).
3.	Item	Enter short descriptive of the task.
4.	For/POC	Enter responsible section/person.
5.	Briefed to POC	When the tasker has been briefed to the POC after initially assigned, an "X" is placed in the brief column. This was to ensure that taskers identified outside of the POC's presence (during UC Meeting for example) were assigned to the identified POC.
6.	Start Date	Enter the date the tasker was initially assigned under "Start Date."
7.	Status	Enter status of item. This includes things like: "Awaiting LE Gear", "Update needed", "Awaiting Feedback". When the item is completed, the word "completed" is entered and if working in MS Excel, the task is cut and pasted into the worksheet labeled "COMPLETED."
8.	Target Date	Target date is another way of saying deadline. When the target date is one day away, the block turns yellow. When it is overdue it turns red. When it is yellow, it serves as a reminder to the UC that the target date needs to be changed or the responsible section needs to complete the task.
9.	Actual Date	The block to the right of the Target Date (Actual Date) will always have today's date. It is merely the formula "=today()" inserted into the cell.

NOTE: In order to ensure the red and yellow reminders work for new tasks, the user simply copies a task line, inserts it into the worksheet and overtypes the new task information.

		WORK ANALYSIS MATRIX ICS 234-CG	
1. Incident Name		2. Operational Period From: To:	
3. Operation's Objectives DESIRED OUTCOME	4. Optional Strategies HOW	5. Tactics/Work Assignments WHO, WHAT, WHERE, WHEN	
6. Prepared by: (Operations Section Chief)		7. Date/Time:	

1. Incident Name		2. Operational Period (Date / Time)		EXECUTIVE SUMMARY
		From: To:		
3. Operations				
4. Environmental				
5. Planning				
6. Other				
7. Prepared by		Date / Time		
EXECUTIVE SUMMARY		June 2000		

EXECUTIVE SUMMARY

Purpose. The Executive Summary communicates significant response issues during the current operational period, summarizing the daily activities for all sections in a brief format to Senior Managers, Administrators, Senior Agency Staff, and Civic Leaders.

Preparation. The Situation Unit Leader prepares this form with input from Section Chiefs. Final authorization is provided by the Unified Command prior to dissemination outside the ICS organization.

Distribution. After authorization by the Unified Command, the Documentation Unit Leader will duplicate and post a copy on the Situation Status Display Board in the Command Post. Single copies may then be distributed to the Unified Command, Command Staff, Joint Information Center, and Section Chiefs. All completed original forms MUST be given to the Documentation Unit.

Item #	Item Title	Instructions
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies. Record the start and end date and time.
3.	Operations	Operations Section Chief will summarize the tactical accomplishments for the previous operational period.
4.	Environmental	Environmental Unit Leader will summarize any significant impacts identified or mitigated during the previous operational period.
5.	Planning	Planning Section Chief will summarize the critical actions to be carried out during the next operational period.
6.	Other	Situation Unit Leader will indicate any anomalies to previous Executive Summaries, special meetings, community impacts, or items of special interest.
7.	Prepared By	Enter name and title of the person preparing the form, normally the Situation Unit Leader.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

Electronic version: NOAA 1.0 June 1, 2000

GENERAL PLAN-OS

Purpose. The General Plan form displays the progress and planned start and end dates for various incident response activities. Some standard activities have been listed on the form and blank lines are provided at the bottom of the form for planning and tracking additional incident-specific activities.

Preparation. The Planning Section completes the General Plan form when requested by the Unified Command.

Distribution. The General Plan form will be given to the Unified Command and all General Staff as part of the incident summary. All completed original forms **MUST** be given to the Documentation Unit.

Item #	Item Title	Instructions
1.	Incident Name	Enter the name assigned to the incident.
2.	Prepared By	Enter the name of the Planning Section Chief completing the form.
3.	Date/Time	Enter the Date (month, day, year) and Time (24-hour clock) the form was prepared.
4.	Operational Period	Enter the time interval for which the form applies. Record the start and end date and time.
5.	Notification	Enter the date and time that required notifications were completed.
6.	Response Initiation Plan Item and Timeframe	Enter the date and time that the Response Initiation is completed. Enter specific dates, or day number or week number in the top row to indicate the timeframe being covered by this form. Then enter either descriptive text or shading to the right of each activity to indicate the beginning and estimated end for that activity during this incident response.

INITIAL INCIDENT INFORMATION		INCIDENT NAME		Information as of:	
				Date	Time
NAME OF PERSON REPORTING THE INCIDENT					
Call-Back Number(s) of person reporting the incident:					
VESSEL/FACILITY INFORMATION AND POINTS OF CONTACT					
Vessel / Facility Name:			Number of people onboard/on site:		
Location:					
Type of Vessel / Facility:					
Contact / Agent:			Phone:		
Owner:			Phone:		
Operator / Charterer:			Phone:		
VESSEL SPECIFIC INFORMATION					
Last Port of Call:		Destination:		Flag:	
Particulars:	Length:	Ft.	Tonnage (Gross/Net/DWT):	Draft Fwd:	Aft:
Year Built:					
Type of Hull: <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Double-Bottom <input type="checkbox"/> Double-Sided					
Hull Material:					
Type of Propulsion: <input type="checkbox"/> Diesel <input type="checkbox"/> Steam <input type="checkbox"/> Gas Turbine <input type="checkbox"/> Nuclear <input type="checkbox"/> Other					
Petroleum Products or Crude Oil <input type="checkbox"/> Yes <input type="checkbox"/> No					
Type of Cargo:			Total Number of Tanks on Vessel:		
Total Quantity:	Barrels x 42=	Gallons	Total Capacity:	Barrels	
Type of Fuel:	Quantity on Board:			Barrels	
INCIDENT INFORMATION					
Location:		Lat/Long:			
Type of Casualty: <input type="checkbox"/> Grounding <input type="checkbox"/> Collision <input type="checkbox"/> Allision <input type="checkbox"/> Explosion <input type="checkbox"/> Fire <input type="checkbox"/> Other					
Number of Tanks Impacted:		Total Capacity of Affected Tanks:			
Material(s) Spilled:		Viscosity:			
Estimated Quantity Spilled:		(<input type="checkbox"/> Gallons / <input type="checkbox"/> Barrels)		Classification: <input type="checkbox"/> Minor <input type="checkbox"/> Medium <input type="checkbox"/> Major	
Source Secured?: <input type="checkbox"/> Yes <input type="checkbox"/> No		If Not, Estimated Spill Rate:		<input type="checkbox"/> Barrels <input type="checkbox"/> Gallons / Hour	
Notes:					
INCIDENT STATUS					
Injuries/Casualties:				<input type="checkbox"/> SAR Underway	
Vessel Status: <input type="checkbox"/> Sunk <input type="checkbox"/> Aground <input type="checkbox"/> Dead in Water		Set and Drift:			
<input type="checkbox"/> Anchored <input type="checkbox"/> Berthed <input type="checkbox"/> Under Tow		Estimated Time to Dock / Anchor:			
<input type="checkbox"/> Enroute to Anchorage / Berth Under Own Power		Estimated Time of Arrival:			
<input type="checkbox"/> Holed: <input type="checkbox"/> Above Waterline <input type="checkbox"/> Below Waterline <input type="checkbox"/> At Waterline		Approximate Size of Hole:			
<input type="checkbox"/> Fire: <input type="checkbox"/> Extinguished <input type="checkbox"/> Burning		<input type="checkbox"/> Assistance Enroute <input type="checkbox"/> Assistance On-Scene			
<input type="checkbox"/> Flooding: <input type="checkbox"/> Dewatering <input type="checkbox"/> Lightering		<input type="checkbox"/> Assistance Enroute <input type="checkbox"/> Assistance On-Scene			
<input type="checkbox"/> List: <input type="checkbox"/> Port <input type="checkbox"/> Starboard		Degrees: <input type="checkbox"/> Trim: <input type="checkbox"/> Bow <input type="checkbox"/> Stern Degrees:			
ENVIRONMENTAL INFORMATION					
Wind Speed:	Knots	Wind Direction:	Air Temperature:	F°	Water Temperature:
Wave Height:	Feet	Wave Direction:	Conditions:		Tide: <input type="checkbox"/> Slack <input type="checkbox"/> Flood <input type="checkbox"/> Ebb
Current:	Knots	Current Direction:			High Tide at: Hours
Swell Height:	Feet	Swell Direction:			Low Tide at: Hours
Prepared By:			Date / Time Prepared		
June 2000			INITIAL INCIDENT INFORMATION		

**INITIAL NOTIFICATION
INCIDENT INFORMATION**

Purpose. The Incident Information form provides the Incident Commander (and the Command and General Staff assuming command of the incident) with basic information regarding the incident situation and conditions.

Preparation. The initial Incident Information form is prepared by the responder receiving the first call reporting the incident. Subsequent updates to the form would be made by the Situation Unit.

Distribution. The initial form will be given to the Incident Commander. When updated, the Planning Section Chief will duplicate the Incident Information form and post a copy at the Situation Display in the Command Post. Single copies may then be distributed to the Command Staff, Section Chiefs, and Joint Information Bureau. All completed original forms MUST be given to the Documentation Unit.

Item Title	Instructions
All items	Enter information appropriate for all relevant items.

MATERIAL SAFETY DATA SHEETS

SECTION 16 MATERIAL SAFETY DATA SHEETS

MATERIAL SAFETY DATA SHEETS	1
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MATERIAL SAFETY DATA SHEETS

MSDSs can be accessed on the Company website. MSDS's are also located at Company locations.

Some typical MSDSs that may be utilized during an emergency response include but are not limited to:

- Crude Oil
- Regular Unleaded Gasoline
- Mid-Grade Unleaded Gasoline
- Premium Gasoline
- Jet Fuels
- Turbine Fuel, Aviation JP-5
- LS Diesel 1
- LS Diesel 2
- HS Diesel 1
- HS Diesel 2
- Gasoline Generic
- Natural Gasoline
- Ethylene
- LPG
- Natural Gas
- Ethane
- Ethanol

GLOSSARY

SECTION 17 GLOSSARY

GLOSSARY..... 1

 Definitions 1

GLOSSARY

Definitions

AGENCY REPRESENTATIVE - Individual assigned to an incident from an assisting or cooperating agency who has been delegated full authority to make decisions on all matters affecting his/her agency's participation at the incident. Agency Representatives report to the Liaison Officer.

AIR OPERATIONS BRANCH DIRECTOR - The person primarily responsible for preparing and implementing the air operations portion of the Incident Action Plan. Also responsible for providing logistical support to helicopters assigned to the incident.

ALLOCATED RESOURCES - Resources dispatched to an incident.

ASSIGNED RESOURCES - Resources checked-in and assigned work tasks on an incident.

ASSIGNMENTS - Tasks given to resources to perform within a given operational period, based upon tactical objectives in the Incident Action Plan.

ASSISTANT - Title for subordinates of the Command Staff positions. The title indicates a level of technical capability, qualifications, and responsibility subordinate to the primary positions. Assistants may also be used to supervise unit activities at camps.

ASSISTING AGENCY - An agency directly contributing tactical or service resources to another agency.

AVAILABLE RESOURCES - Incident-based resources that are immediately available for assignment.

BASE - The location at which the primary logistics functions are coordinated and administered. (Incident name or other designator will be added to the term "Base") The Incident Command Post may be collocated with the base. There is only one base per incident.

BRANCH - The organizational level having functional/geographic responsibility for major incident operations. The Branch level is organizationally between Section and Division/Group in the Operations Section, and between Section and Units in the Logistics Section.

CACHE - A pre-determined complement of tools, equipment, and/or supplies stored in a designated location, and available for incident use.

CAMP - A geographical site, within the general incident area, separate from the base, equipped and staffed to provide sleeping areas, food, water, and sanitary services to incident personnel.

COMPANY CORE PLAN VOLUME 1**GLOSSARY
SECTION 17**

CHECK-IN - The process whereby resources first report to an incident response. Check-in locations include: Incident Command Post (Resources Unit), Incident Base, Camps, Staging Areas, Helibases, and Division/Group Supervisors (for direct line assignments).

CHIEF - The ICS title of individuals responsible for command of functional sections: Operations, Planning, Logistics, and Finance/Administration.

CLEAR TEXT - The use of plain English in radio communications transmissions. No Ten Codes nor agency specific codes are used when using Clear Text.

COMMAND - The act of directing, ordering, and/or controlling resources by virtue of explicit legal, agency, or delegated authority. May also refer to the Incident Commander/Unified Command.

COMMAND POST - See Incident Command Post.

COMMAND STAFF - The Command Staff consists of the Information Officer, Safety Officer, and Liaison Officer, who report directly to the Incident Commander. They may have an assistant or assistants, as needed.

COMMUNICATIONS UNIT - A vehicle (trailer or mobile van) used to provide the major part of an incident Communications Center.

COOPERATING AGENCY - An agency supplying assistance other than direct tactical, support, or service functions or resources to the incident control effort (e.g., Red Cross, telephone company, etc.).

COST UNIT - Functional unit within the Finance/Administration Section responsible for tracking costs, analyzing cost data, making cost estimates, and recommending cost-saving measures.

DECONTAMINATION – The process of removing or neutralizing contaminants that have accumulated on personnel and equipment.

DEPUTY - A fully qualified individual who, in the absence of a superior, could be delegated the authority to manage a functional operation or perform a specific task. In some cases, a Deputy could act as relief for a superior, and, therefore, must be fully qualified in the position. Deputies can be assigned to the Incident Commander, General Staff, and Branch Directors.

DEMOBILIZATION UNIT - Functional unit within the Planning Section responsible for assuring orderly, safe, and efficient demobilization of incident resources.

DIRECTOR - The ICS title for individuals responsible for supervising a Branch.

DISPATCH - The implementation of a command decision to move resources from one place to another.

DISPATCH CENTER - A facility from which resources are directly assigned to an incident.

DIVISION - The organization level having responsibility for operation within a defined geographic area or with functional responsibility. The Division level is organizationally between the Task Force/Strike Team and the Branch. (See also "Group")

DOCUMENTATION UNIT - Functional unit within the Planning Section responsible for collecting, recording, and safeguarding all documents relevant to the incident.

EMERGENCY MEDICAL TECHNICIAN (EMT) - A health-care specialist with particular skills and knowledge in pre-hospital emergency medicine.

EMERGENCY OPERATIONS CENTER (EOC) - A pre-designated facility established by an agency or jurisdiction to coordinate the overall agency or jurisdictional response and support to an emergency response.

FACILITIES UNIT - Functional unit within the Support Branch of the Logistics Section that provides fixed facilities for the incident. These facilities may include the Incident Base, feeding areas, sleeping areas, sanitary facilities, etc.

FEDERAL ON-SCENE COORDINATOR (FOSC) - The pre-designated Federal On-Scene Coordinator operating under the authority of the National Contingency Plan (NCP).

FIELD OPERATIONS GUIDE (FOG) - A pocket-size manual of guidelines regarding application of the Incident Command System.

FINANCE/ADMINISTRATION SECTION - The Section responsible for all incident costs and financial considerations. Includes the Time Unit, Procurement Unit, Compensation/Claims Unit, and Cost Unit.

FOOD UNIT - Functional unit within the Service Branch of the Logistics Section responsible for providing meals for incident personnel.

FUNCTION - In ICS, function refers to the five major activities in the ICS, i.e., Command, Operations, Planning, Logistics, and Finance/Administration. The term function is also used when describing the activity involved, e.g., "the planning function."

GENERAL STAFF - The group of incident management personnel comprised of: Incident Commander, Operations Section Chief, Planning Section Chief, Logistics Section Chief, and Finance/Administration Section Chief.

GEOGRAPHIC INFORMATION SYSTEM (GIS) - An electronic information system which provides a geo-referenced database to support management decision-making.

GROUND SUPPORT UNIT - Functional unit within the Support Branch of the Logistics Section responsible for fueling, maintaining, and repairing vehicles, and the ground transportation of personnel and supplies.

GROUP - Groups are established to divide the incident into functional areas of operation. Groups are composed of resources assembled to perform a special function not necessarily within a single geographic division. (See Division.) Groups are located between Branches (when activated) and Single Resources in the Operations Section.

HELIBASE - A location within the general incident area for parking, fueling, maintaining, and loading helicopters.

HELISPOT - A location where a helicopter can take off and land. Some helispots may be used for temporary loading.

INCIDENT ACTION PLAN (IAP) - The Incident Action Plan, which is initially prepared at the first meeting, contains general control objectives reflecting the overall incident strategy, and specific action plans for the next operational period. When complete, the Incident Action Plans will include a number of attachments.

INCIDENT AREA - Legal geographical area of the incident including affected area(s) and traffic route(s) to corresponding storage and disposal sites.

INCIDENT BASE - See BASE.

INCIDENT COMMANDER (IC) - The individual responsible for managing all incident operations.

INCIDENT COMMAND POST (ICP) - The location at which the primary command functions are executed; may be collocated with the incident base.

INCIDENT COMMAND SYSTEM (ICS) - A standardized on-scene emergency management system specifically designed to allow its user(s) to adopt an integrated organizational structure equal to the complexity and demands of single or multiple incidents, without being hindered by jurisdictional boundaries.

INCIDENT COMMUNICATION CENTER - The location of the Communications Unit and the Message Center.

INCIDENT OBJECTIVES - Statements of guidance and direction necessary for the selection of appropriate strategies, and the tactical direction of resources. Incident objectives are based on realistic expectations of what can be accomplished when all allocated resources have been effectively deployed. Incident objectives must be achievable and measurable, yet flexible enough to allow for strategic and tactical alternatives.

INCIDENT SITUATION DISPLAY - The Situation Unit is responsible for maintaining a display of status boards which communicate critical incident information vital to establishing and maintaining an effective command and control environment.

INFORMATION OFFICER (IO) - A member of the Command Staff responsible for providing incident information to the public and news media or other agencies or organizations. There is only one Information Officer per incident. The Information Officer may have assistants.

JOINT INFORMATION CENTER (JIC) - A facility established within, or near, the Incident Command Post where the Information Officer and staff can coordinate and provide incident information to the public, news media, and other agencies or organizations. The JIC is normally staffed with representatives from the FOSC, SOSC and RP.

JURISDICTION - A range or sphere of authority. At an incident, public agencies have jurisdiction related to their legal responsibilities and authority for incident mitigation. Jurisdictional authority at an incident can be political/geographical (e.g., city, county, state, or Federal boundary lines), or functional (e.g., police department, health department, etc.). (See Multi-Jurisdiction).

JURISDICTIONAL AGENCY - The agency having jurisdiction and responsibility for a specific geographical area, or a mandated function.

LANDING ZONE - See Helispot.

LEADER - The ICS title for an individual responsible for a Task Force/Strike Team or functional Unit.

LIAISON OFFICER (LO) - A member of the Command Staff responsible for coordinating with stakeholder groups and representatives from assisting and cooperating agencies.

LOGISTICS SECTION - The Section responsible for providing facilities, services, and materials for the incident.

MANAGERS - Individuals within ICS organizational units who are assigned specific managerial responsibilities (e.g., Staging Area Manager or Camp Manager).

MEDICAL UNIT - Functional unit within the Service Branch of the Logistics Section responsible for developing the Medical Plan, and for providing emergency medical treatment for incident response personnel.

MESSAGE CENTER - The message center is part of the Communications Center and collocated with or adjacent to it. It receives, records, and routes information about resources reporting to the incident, resource status, and handles administration and tactical traffic.

MULTI-AGENCY COORDINATION (MAC) – A generalized term which describes the functions and activities of representatives of involved agencies and/or jurisdictions who come together to make decisions regarding the prioritizing of incidents, and the sharing and use of critical resources. The MAC organization is not a part of the on-scene ICS and is not involved in developing incident strategy or tactics.

MULTI-AGENCY INCIDENT - An incident where one or more agencies assists a jurisdictional agency or agencies. May be single or Unified Command.

MULTI-JURISDICTION INCIDENT - An incident requiring action from multiple agencies that have statutory responsibility for incident mitigation. In ICS, these incidents will normally be managed using a Unified Command.

NATURAL RESOURCE DAMAGE ASSESSMENT (NRDA) - The process of collecting and analyzing information to evaluate the nature and extent of injuries resulting from an incident, and determine the restoration actions needed to bring injured natural resources and services back to baseline and make the environment whole for interim losses. (15 CFR 990.30)

OFFICER - The ICS title for personnel responsible for the Command Staff positions of Safety, Liaison, and Information.

OPERATIONAL PERIOD - The period of time scheduled for execution of a given set of operational actions specified in the Incident Action Plan. Operational Periods can be various lengths, usually not over 24 hours.

OPERATIONS SECTION - Responsible for all operations directly applicable to the primary mission. Directs unit operational plans preparation, requests or releases resources, makes expedient changes to the Incident Action Plan (as necessary), and reports such to the Incident Commander. Includes the Recovery and Protection Branch, Emergency Response Branch, Air Operations Branch, and Wildlife Branch.

OUT-OF-SERVICE RESOURCES - Resources assigned to an incident but unable to respond for mechanical, rest, or personnel reasons.

PLANNING MEETING - A meeting, held as needed throughout the duration of an incident, to select specific strategies and tactics for incident control operations and for service and support planning.

PLANNING SECTION - Responsible for collecting, evaluating, and disseminating tactical information related to the incident, and for preparing and documenting Incident Action Plans. The section also maintains information on the current and forecast situation, and on the status of resources assigned to the incident. Includes the Situation, Resource, Environmental, Documentation, and Demobilization Units, and Technical Specialists.

POLREP - Pollution report.

PROCUREMENT UNIT - Functional unit within the Finance/Administration Section responsible for financial matters involving vendor contracts.

QUALIFIED INDIVIDUAL (Q.I.) - The person authorized by the responsible party to expend funds and obligate resources.

RADIO CACHE - A cache may consist of a number of portable radios, a base station, and, in some cases, a repeater stored in a predetermined location for dispatch to incidents.

RECORDERS - Individuals within ICS organizational units who are responsible for recording information. Recorders may be found in Planning, Logistics, and Finance/Administration.

REGIONAL RESPONSE TEAM (RRT) - A Federal response organization, consisting of representatives from specific Federal and state agencies, responsible for regional planning and preparedness before an oil spill occurs and for providing advice to the FOSC in the event of a major or substantial spill.

REPORTING LOCATION - Any one of six facilities/locations where incident assigned resources may be checked in. The locations are: Incident Command Post-Resources Unit, Base, Camp, Staging Area, Helibase, or Division/Group Supervisors (for direct line assignments.) Check-in for each specific resource occurs at one location only.

RESOURCES - All personnel and major items of equipment available, or potentially available, for assignment to incident tasks on which status is maintained.

RESOURCES UNIT - Functional unit within the Planning Section responsible for recording the status of resources committed to the incident. The Unit also evaluates resources currently committed to the incident, the impact that additional responding resources will have on the incident, and anticipated resource needs.

RESPONSIBLE PARTY (RP) – The owner/operator of the vessel or facility which is the spill source.

RESPONSIBLE PARTY INCIDENT COMMANDER (RPIC) - Responsible Party's designated incident commander.

SAFETY OFFICER (SO) - A member of the Command Staff responsible for monitoring and assessing safety hazards or unsafe situations, and for developing measures for ensuring personnel safety. The Safety Officer may have assistants.

SECTION - The organization level having functional responsibility for primary segments of incident operation such as: Operations, Planning, Logistics, Finance/Administration. The Section level is organizationally between Branch and Incident Commander.

SERVICE BRANCH - A Branch within the Logistics Section responsible for service activities at the incident. Includes the Communications, Medical, and Food Units.

SINGLE RESOURCE - An individual, a piece of equipment and its personnel complement, or a crew or team of individuals with an identified work supervisor that can be used on an incident.

SITE SAFETY AND HEALTH PLAN (SSHP) – Site-specific document required by state and Federal OSHA regulations and specified in the Area Contingency Plan. The SSHP, at minimum, addresses, includes, or contains the following elements: health and safety hazard analysis for each site task or operation, comprehensive operations workplan, personnel training requirements, PPE selection criteria, site-specific occupational medical monitoring requirements, air monitoring plan, site control measures, confined space entry procedures (if needed), pre-entry briefings (tailgate meetings, initial and as needed), pre-operations commencement health and safety briefing for all incident participants, and quality assurance of SSHP effectiveness.

SITUATION UNIT - Functional unit within the Planning Section responsible for collecting, organizing, and analyzing incident status information, and for analyzing the situation as it progresses. Reports to the Planning Section Chief.

SOURCE CONTROL - Actions necessary to control the spill source and prevent the continued release of oil or hazardous substance(s) into the environment.

SPAN OF CONTROL – Span of Control means how many organizational elements may be directly managed by one person. Span of Control may vary from three to seven, and a ratio of one to five reporting elements is recommended.

STAGING AREA - The location where incident personnel and equipment are staged awaiting tactical assignment.

STAKEHOLDERS - Any person, group, or organization affected by, and having a vested interest in, the incident and/or the response operation.

STATE ON-SCENE COORDINATOR (SOSC) - The pre-designated State On-Scene Coordinator.

STRATEGY - The general plan or direction selected to accomplish incident objectives.

STRIKE TEAM - Specified combinations of the same kinds and types of resources, with common communications and a leader.

SUPERVISOR - The ICS title for individuals responsible for directing the activities of a Division or Group.

SUPPLY UNIT - Functional unit within the Support Branch of the Logistics Section responsible for ordering equipment and supplies required for incident operations.

SUPPORT BRANCH - A Branch within the Logistics Section responsible for providing personnel, equipment, and supplies to support incident operations. Includes the Supply, Facilities, Ground Support, and Vessel Support Units.

SUPPORTING MATERIALS - Refers to the several attachments that may be included with an Incident Action Plan (e.g., communications plan, map, site safety and health plan, traffic plan, and medical plan).

TACTICAL DIRECTION - Directions given by the Operations Section Chief including: the tactics appropriate for the selected strategy; the selection and assignment of resources; tactics implementation; and performance monitoring for each operational period.

TACTICS – Deploying and directing resources during an incident to accomplish the desired objective.

TASK FORCE - A group of resources with common communications and a leader assembled for a specific mission.

TECHNICAL SPECIALISTS - Personnel with special skills who can be used anywhere within the ICS organization.

TEMPORARY FLIGHT RESTRICTIONS (TFR)- Temporary airspace restrictions for non-emergency aircraft in the incident area. TFRs are established by the FAA to ensure aircraft safety and are normally limited to a five-nautical-mile radius and 2000 feet in altitude.

TIME UNIT - Functional unit within the Finance/Administration Section responsible for recording time for incident personnel and hired equipment.

UNIFIED COMMAND (UC) - A unified team which manages an incident by establishing a common set of incident objectives and strategies. This is accomplished without loss nor abdication of agency nor organizational authority, responsibility, nor accountability.

UNIT - The organizational element having functional responsibility for a specific incident planning, logistic, or finance/administration activity.

VESSEL SUPPORT UNIT - Functional unit within the Support Branch of the Logistics Section responsible for implementing the Vessel Routing Plan; for fueling, maintaining, and repairing vessels and other vessel support equipment; and coordinating transportation on the water and between or among shore resources.

VOLUNTEER - Any individual accepted to perform services by an agency which has the authority to accept volunteer services. A volunteer is subject to the provisions of the authorizing statute or regulations.

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)

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PURPOSE

The purpose of this procedure is to:

- A. Provide guidelines for design, execution and evaluation of release response exercises
- B. Check the accuracy and logic of information contained in the Emergency Response Plan (ERP)
- C. Familiarize Team members with their ERP's contents and their assigned roles
- D. Verify that resources required for a successful response can be obtained and integrated
- E. Comply with the National Preparedness Response Exercise Program (PREP)
- F. Comply with the following Federal and State regulations:
 - 33 CFR 154, USCG, Marine Transportation Related Facilities – Transfer To/From Vessels
 - 40 CFR 112, Non Transportation Related On Shore Facilities (SPCC Facilities)
 - 49 CFR 194, Response Plans for Onshore Oil Pipelines
 - 49 CFR 192, Emergency Response and Recordkeeping
 - 49 CFR 195, Transportation of Hazardous Liquid by Pipeline
 - 30 CFR 254, Offshore Facilities Including Associated Pipelines
 - In California only, CCR Title 14 (Division 1, Subdivision 4)
 - In Oregon only, OAR 340-47-200(3) and OAR 340-47-150-27
 - In Washington only, Chapter 173-182 WAC

SCOPE**Personnel Covered by this Procedure**

This procedure applies to all personnel, Company or contractor, involved in planning, executing or evaluating emergency response exercises for the Company.

Activities Covered by this Procedure

This procedure covers Qualified Individual (QI) Notification, Tabletop Exercises and Equipment Deployment Exercises initiated and developed by Company personnel. Combinations of these three exercise types may also be conducted utilizing this procedure. This procedure is intended to be used as a guideline. Deviations from the instructions may be appropriate in some cases to more effectively exercise the ERP and the Team. These deviations should be discussed with HES.

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This procedure may also be used when conducting exercises with other Company operating companies, other companies and government agencies.

Exemptions from this Procedure

This procedure does not address the schedule of exercises that a facility must conduct in order to satisfy regulatory requirements.

This procedure is not adequate for conducting large complex exercises such as Area PREP exercises. Consult with HES if there is any doubt whether the exercise to be conducted is too large or complex to use this procedure.

PREREQUISITES**Training/Personnel Requirements**

Exercise participants must have completed the level of HAZWOPER training that is required for their specific role in the exercise. Participants must carry current HAZWOPER cards during the exercise. Formal training on this procedure is not required. HES will typically assist the Exercise Design Coordinator in use of this procedure.

Other Requirements

Obtain permission from property owners if the exercise could impact them.

Before conducting Tabletop and Equipment Deployment Exercises notify government agencies as described in this plan.

In California Note: For Office of Spill Prevention and Response (OSPR) regulated facilities: Notify and invite the OSPR Administrator of each exercise by letter according to the following minimum notification periods:

Annual Tabletop (In state)	30 days
Tabletop (out of state)	90 days
Semi-Annual Equipment Deployment	30 days
Full scale combination exercise	60 days
Triennial	60 days
Internal unannounced exercise	30 days

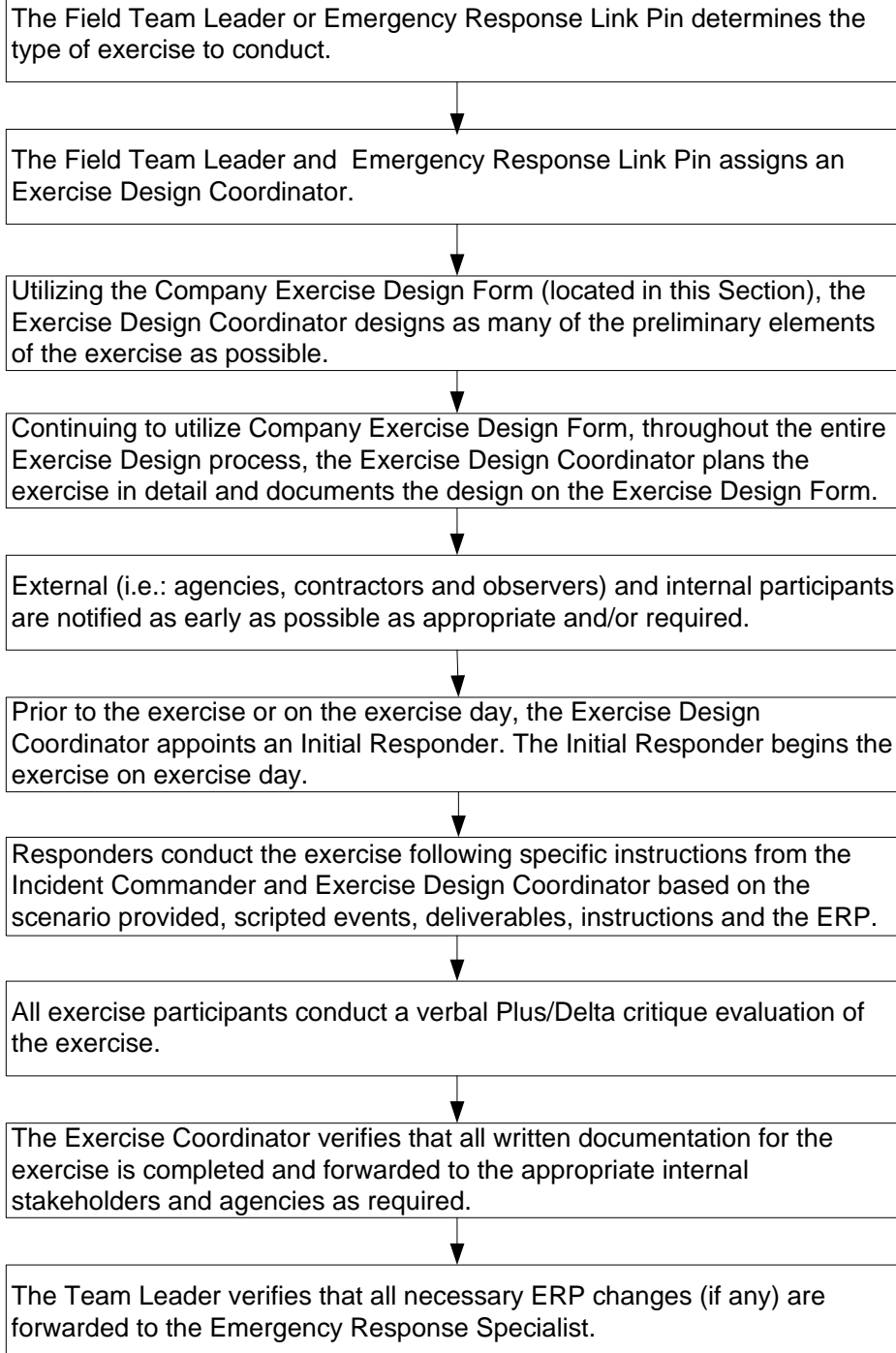
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Northwest Area Contingency Note: For all facilities subject to the Northwest Area Contingency Plan (Washington, Oregon, Idaho), an annual exercise schedule must be submitted to the Washington Department of Ecology at www.ecy.wa.gov/programs/spills/forms/drillform.htm. This schedule will then be distributed to State and Federal agencies, which have emergency preparedness responsibility. Changes to the schedule should be provided at least quarterly.

In Oregon Note: Notify the State Emergency Response Coordinator 90 days in advance of scheduled deployment exercises. During a three-year cycle, notify the State Emergency Response Coordinator 90 days in advance of at least one Tabletop Exercise, which involves a sustained or major incident. The State has the option of attending the exercise, providing a critique and/or accepting the exercise as complying with State requirements.

In Washington Note: Notify the Department of Ecology per the scheduling instructions below. The Department of Ecology should be involved in exercise design and deliverables and will provide an Observer and/or Evaluator during the exercise as well as a critique to determine whether the exercise meets State regulations.

Washington Type of Drill	Scheduling Instructions
Tabletop Drills (one in each year of the cycle)	Must be scheduled at least 60 days in advance, except the worst-case discharge scenario at least 90 days in advance.
Deployment Drill (two per year)	Scheduled at least 30 days in advance.
Ecology initiated Unannounced Drill	No notice.

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INSTRUCTIONS**Select Type of Exercise**

The Team Leader or Emergency Response Link Pin determines the type of exercise required. The Team's exercise schedule should be utilized to select a QI Notification Exercise, Tabletop Exercise or Equipment Deployment Exercise. See Section 12, Training and Drills of the Core Plan for a description of each exercise.

Note: Two or more types of exercises may be combined into a single exercise as long as adequate documentation is kept of the types of exercise incorporated.

If a QI Notification Exercise is selected, refer to the instructions located in this section. If a Tabletop or Equipment Deployment Exercise is selected, proceed to following step.

Assign an Exercise Design Coordinator

The Team Leader or Emergency Response Link Pin designates an Exercise Design Coordinator to help design and arrange for facilitation of the exercise.

Note: If possible the Exercise Design Coordinator should not participate as a Response Team member, however from time to time participation may be necessary to fill a role in the Incident Command System.

Preliminary Exercise Design

Note: Preliminary exercise design should be a fairly simple scoping.

- Work through the Exercise Design Form by hand or electronically completing as many design elements as possible based on your current knowledge.
- Attempt to check off as many of the Prep Objectives for each exercise as possible.
- Keep the Exercise Design Form in an accessible location (hard copy or electronic) since you will be utilizing this form to complete the remainder of the exercise design process.

Note: When designing the exercise, take into consideration the probability of the event, risk if the event were to occur, experience of the participants, and the required exercise schedule.

Ongoing and Final Exercise Design

(Use the same Exercise Design Form to continue ongoing and final Exercise Design.)

As information becomes available, continue to work through the Exercise Design Form attempting to complete as many Exercise Design Elements as necessary.

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Scenario

Develop a scenario comprised of a paragraph or two, which will adequately describe the scenario and allow the selected objectives to be met and exercised. Some items to consider are:

1. Do you want a spill or gas release?
2. How will the spill or gas release occur?
3. Where does the release need to go to demonstrate response functions?
4. What control events need to be part of the exercise to obtain desired results? (i.e.: weather, media coverage, etc.)

Caution: All documents should include the words “This is an exercise.”

Additional items for consideration:

1. If possible, prepare some scripted inject cards to give to participants during the exercise that will help to keep the exercise flowing and allow the objectives to be accomplished.
2. For Equipment Deployment Exercises, consult with HES to determine the types and quantities of equipment that must be deployed to satisfy the minimum requirement.
3. When selecting the exercise participants, consider whether members of other Teams, regulatory agencies, HES, Public Affairs, Spill Removal Organizations (OSRO's), CoOp's, Company World Wide Spill Response Team members, community members, press members, other pipeline companies, railroad operators, utility companies, customers that tie into pipeline, etc. should act as participants, observers, facilitators, or evaluators. See this plan for required notification timeframes.

Note: Participation by local fire, police, DOT, State Fire Marshal, State Spill Agencies and other appropriate public officials satisfies the liaison requirements in 49 CFR 195.

4. When you finalize the location for the exercise verify that arrangements are made for necessary materials and accommodations (food, lodging, radios, maps, Emergency Response Plans, etc.).
5. Determine the ground rules for the exercise. You can record your ground rules on the last page of the Exercise Design Form. Some examples of ground rules are to consider:
 - All documents must state, “*This is an exercise.*”
 - All external exercise communications (i.e.: radio, phone) must begin and end with the phrase “*This is an exercise.*”
 - Will real time be used?
 - Will resources actually be mobilized?

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- Will notifications be actual or simulated?
 - Will controlling events be introduced during the exercise?
 - What types of safety instructions are required for participants?
6. Prepare the following information before conducting the exercise to provide instructions for the participants:
- Completed ICS organizational chart (optional)
 - Safety instructions and list of required safety equipment
7. If Controllers, Evaluators or Facilitators are utilized for the exercise, verify that the following information is passed on to the persons assigned to these functions (this information should not be issued to the Response Team):
- Sequence of events
 - Scripted events
 - Anticipated responses
 - How the exercise will be terminated
 - Review the checklist on the Exercise Design form
8. Notify agencies and outside entities as needed or appropriate, requesting that all parties maintain the confidentiality required for a realistic evaluation and testing of response elements.

Execute the Exercise

Begin the exercise with a safety message, emphasize that no actions should be undertaken which will jeopardize the safety of any of the participants, and emphasize that any participants are empowered to cause an exercise timeout if an unsafe condition develops.

- 1 The Exercise Design Coordinator should explain the process of the day (i.e.: exercise deliverables and the agenda/these items should be easy to access since they were part of the Exercise Design Form).
- 2 The Exercise Design Coordinator begins the event by turning over exercise play to the Initial Responder or the Incident Commander, depending on the scenario.
- 3 The Initial Responder begins by
 - Ensuring his or her own safety
 - Initiating role played assessment and mitigation of potential impacts of those in immediate danger
 - Initiating role played abnormal and emergency procedures per the System and Facility manuals
 - Recording events in the Incident Event Log

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- 4 The Initial Responder notifies the Incident Commander. The Incident Commander should be someone who would normally fill the role during the type of incident being exercised. The Incident Commander documents the notification.
- 5 The Initial Responder performs an initial assessment of the size, scope, protection priorities, and, expected duration, and reports them to the Incident Commander. The Incident Commander and the Initial Responder conduct a resource evaluation that should consider the following needs for the first two days of the response:
 - Contract/CoOp equipment and manpower
 - Company resources including members of: other Teams, Support Groups, HES, and Procurement Services
 - Company resources including other OpCO's, Worldwide Spill Response Team, and Functional Teams
- 6 The Response Team establishes a Command Post and Staging Area. These may be pre-established.
- 7 The Incident Commander implements the Incident Command System (ICS). Using the Incident Command Organization Chart found on ICS Form 201, the Incident Commander or designated scribe writes down the names of the participants in their appointed ICS roles. At a minimum, the following positions should be filled:
 - Incident Commander
 - Safety Officer
 - Operations Section Chief
 - Planning Section Chief
 - Logistics Section Chief
 - Public Information Officer

If agencies are participating in the exercise, appoint a Liaison Officer to integrate the agencies into the Incident Command System.

Continue to update the ICS organization chart and complete the ICS 201 Form throughout the initial period of the event. If pre-assigned roles have been designated in the Incident Command structure, then those individuals should fill their assigned roles.

- 8 The Incident Commander reviews the scenario with the Section/Unit Leaders. The Incident Commander establishes the objectives of the response (Incident Design Form objectives can be utilized). The Incident Commander verifies that the USCG Incident Management Handbook (IMH) Operational Planning Cycle P (Section 6 of this Core Plan) will serve as the exercise guide. The Incident Commander may also give specific directions to individual Response Team members. The Section/Unit Leaders in turn brief their groups.

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- 9 Before proceeding further with the exercise, each Response Team member with an assigned role in the Incident Command System should read their duties per the USCG IMH. Each Response Team member is responsible for understanding and following their roles as described in the USCG IMH and exercise instructions.
- 10 Following the Operational Planning Cycle P, the Incident Commander directs the Planning Section Chief to establish a schedule for meetings to be conducted during the day. The Incident Commander also:
 - Provides a description of how far into the Operational Planning Cycle P process the exercise will precede
 - Ensures the Safety Officer begins a Job Site Safety Plan
 - Ensures completion of notifications per the ERP
- 11 Each ICS Organizational Section then follows the specific instructions from the Incident Commander and the USCG IMH.
- 12 The Planning Section Chief verifies that a meeting schedule is developed and the Operational Planning Cycle P process remains on track for the duration of the exercise.
- 13 Continue to repeat the above cycle until the Exercise Design Coordinator terminates the event.

Evaluate the Exercise

- 1 Conduct a transparent Plus/Delta at the end of the exercise day. Capture lessons learned items during this process.
- 2 Evaluate the exercise design. Did the exercise, as designed, allow the objectives to be met? The evaluation may be done by the entire Response Team for small exercises or by the Exercise Design Team if applicable.
- 3 Ensure completion of a training roster, which includes each of the exercise participants.
- 4 Develop an action plan for items to be improved upon, e.g., ERP modifications, additional exercising, response equipment purchase, coaching Team members, etc.
- 5 Complete the required exercise documentation located in this section for each type of exercise and file copies per the current Company process.

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ROLES AND RESPONSIBILITIES

- 1 The Exercise Design Coordinator is responsible for:
 - Designing the exercise
 - Delegating specific exercise design tasks to other Team members and Support Team members
 - Facilitating the exercise including controlling the flow of the event
 - Appointing additional people to assist in facilitating the event, as needed
 - Inviting all exercise attendees
 - Facilitating the Plus/Delta at the end of the exercise and capture Lessons Learned
- 2 The Exercise Participants are responsible for:
 - The safety of all participants
 - Performing exercise deliverables and competing the ICS tasks identified in the USCG IMH as if the event were a real release
 - Documenting their activities during the event
 - Participating in the Plus/Delta and Lessons Learned verbal critique
- 3 The Team Leader is responsible for:
 - Ensuring that release response exercises are safely planned, executed, documented, and evaluated
 - Ensuring that all action items from the evaluation are completed
 - Designating an Exercise Design Coordinator
 - Maintaining facility and Team exercise files
 - Ensuring that all ERP modifications resulting from exercise findings are forwarded to the Emergency Response Specialist
- 4 HES is responsible for:
 - Providing regulatory guidance on exercise requirements
 - Providing guidance on the frequency and type of exercises required for each Team
 - Providing resources to assist in the design, execution and evaluation of exercises if requested
 - Making necessary changes to the Emergency Response Plan

REPORTING REQUIREMENTS

In California, for OSPR regulated facilities: The Exercise Design Coordinator must submit a one-page form to the Administrator requesting credit for the exercise. The OSPR form is located on their web site at: www.dfg.ca.gov/ospr.

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

In the event that the Tabletop Exercise is meant to satisfy the BSEE or Annual SMT Drill requirements under 30 CFR Part 254, the Exercise Design Coordinator must submit a formal notice to the BSEE 30 days prior to the commencement of the exercise in order to allow the BSEE the opportunity to attend.

QI NOTIFICATION EXERCISE**BSEE Only**

The BSEE QI Notification Drill must be conducted on an annual basis. Furthermore, this exercise must be conducted outside of normal business hours. First, make contact (telephone, fax, pager, radio) with the following groups. All contacts must be acknowledged. Record contacts on the Incident Event Log.

- Team Leader or Immediate Spill Response Team Member as designated by Team Leader
- Control Center (optional)
- HES Hotline number (877-863-5196)

Washington and Oregon Only

Make contact (telephone, fax, pager, radio) with the following groups. All contacts must be acknowledged. Record contacts on the Incident Event Log.

- Team Leader or Immediate Spill Response Team Member as designated by Team Leader
- Control Center (optional)
- HES Hotline number (877-863-5196)

California OSPR Regulated Facilities Only

Make contact (telephone, fax, pager, radio) with the following groups. All contacts must be acknowledged. Record contacts on the Incident Event Log.

- Team Leader or Immediate Spill Response Team Member as designated by Team Leader
- Control Center (optional)
- Profit Center Manager (optional)
- HES Hotline number (877-863-5196)
- Primary response contractors (OSRO)

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

All Others

Make contact (telephone, fax, pager, radio) with the following groups. All contacts must be acknowledged. Record contacts on the Incident Event Log.

- Team Leader or Immediate Spill Response Team Member as designated by Team Leader
- Control Center (optional)
- Profit Center Manager (optional)
- HES Hotline number (877-863-5196)

DOCUMENTATION AND RECORD RETENTION**Required Documentation**

- 1 The Notification Exercise and ERP Contact Verification Form located in this section is used to document the QI Notification Exercise.
- 2 Documentation for Tabletop and Equipment Deployment Exercises consists of the following items:
 - Training roster
 - Completed Exercise Design Form, which includes a written description of the scenario
 - Completed ICS Form 201
 - Required internal or external documentation listed in this ERP
 - Completed Job Site Safety Plan
 - Plus/Delta
 - Action item list
 - List of ERP changes, if any, forward to ER Specialists

Documentation Storage and Retention Time

- 1 The documentation package for each exercise must be retained at the Team office for a minimum of five years.
- 2 Copies of the following must be sent to the L&D coordinator. The L&D coordinator will enter the appropriate information in the Knowledge Plant, under Emergency Response Spill Exercises.
 - Training roster

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

Description of Prep Objectives**Exercise Elements and Objectives****1. Notifications**

The objective is to demonstrate the Field Team's ability to implement proper notification procedures.

2. Staff Mobilization

The objective is to demonstrate the Field Team's ability to mobilize the Spill Response Organization.

3. Unified Command

The objective is to demonstrate the Field Team's ability to implement Unified Command in cooperation with Federal, State and Local agencies.

4. Incident Command System

The objective is to demonstrate the Field Team's ability to operate within the Incident Command System as described in the Emergency Response Plan.

5. Discharge Control

The objective is to demonstrate the Field Team's ability to develop and implement a discharge control plan and utilize the guidelines established in the ERP, General Procedures and System/Facility Emergency Operating Procedures manuals.

6. Assessment

The objective is to demonstrate the Field Team's ability to provide initial and continuing assessment of the release using the guidelines established in the Emergency Response Plan.

7. Containment

The objective is to demonstrate the Field Team's ability to enter a contaminated area and stop the discharge at the source using guidelines established in the Emergency Response Plan and other Company procedures manuals. Either Equipment Deployment or Tabletop Exercises may be used to accomplish this objective.

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

8. Recovery of Spilled Material

The objective is to demonstrate the Field Team's ability to recover the discharged volume using the guidelines established in the Emergency Response Plan. Either Deployment or Tabletop Exercises may be used to accomplish this objective.

9. Protection

The objective is to demonstrate the Field Team's ability to protect people, property and the environment identified in the Emergency Response Plan and the Area Contingency Plan.

10. Disposal

The objective is to demonstrate the Field Team's ability to properly manage wastewater and recoverable product as identified in the Emergency Response Plan.

11. Communications

The objective is to demonstrate the Field Team's ability to establish effective communications as identified in the Emergency Response Plan.

12. Transportation

The objective is to demonstrate the Field Team's ability to provide effective transportation for all aspects of a release response.

13. Personnel Support

The objective is to demonstrate the Field Team's ability to provide the necessary personnel support during a release response.

14. Equipment and Maintenance Support

The objective is to demonstrate the Field Team's ability to provide the necessary support of equipment used during a release response.

15. Procurement

The objective is to demonstrate the Field Team's ability to establish an effective procurement system during a release response.

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

16. Documentation

The objective is to demonstrate the Field Team's ability to establish an effective documentation system within the release response organization.

EXERCISE PLANNING CHECKLIST

1. Have required agency notifications been completed?
2. Will the exercise achieve the desired results stated in your objectives?
3. Has your scenario been reviewed by an insider for realism/probability?
4. Has a contingency plan been developed for unexpected events such as bad weather, operational emergencies, radio transmissions picked up by others, etc?
5. Are a sufficient number of facilitators and equipment available to control and document the exercise?
6. If this is an Unannounced Exercise, has the element of surprise been maintained?
7. Have you visited the prospective hypothetical site?
8. Have you evaluated/eliminated actual hazards from the exercise?
9. Will the exercise cause a significant disruption to critical operations?
10. Are instructions clear and adequate so participants know exactly what is expected of them?
11. Has upper management of affected organization(s) been notified?
12. Have affected property owners, businesses and residents been notified?
13. Are props necessary to meet the objectives?
14. Has a location and time been established for the exercise evaluation?
15. Do you have an understanding of the correct procedures that should have been followed, so you can lead a discussion regarding lessons learned?
16. Has a historian been appointed for the evaluation meeting?

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)

COMPANY CORE PLAN

SECTION 18

GLOSSARY

ACP: Area Contingency Plan. Response plan prepared by government agencies for a specific geographic region. These plans may include additional protection requirements.

Announced: An exercise where the participants know the scenario in addition to the date, time and location in advance of the exercise.

DOT: Department of Transportation

Equipment Deployment Exercises: Equipment Deployment Exercises involve mobilization and deployment of resources to a release scenario. Representative types and amounts of equipment are deployed and operated in their normal operating medium. Only reusable release response equipment (such as booms, skimmers, pumps, vacuum trucks, boats, etc.) need be deployed. These exercises are intended to give Response Team members practice with response equipment.

Additionally, this exercise will present an opportunity to inspect deployment equipment and record inspection findings on the Equipment Deployment/Inspection Form provided in this section.

IC: Incident Commander

ICS: Incident Command System

IMH: U.S. Coast Guard Incident Management Handbook

NIMS: National Incident Management System

Notification Drills: Drills designed to verify that contact can be made between facility personnel and the QI listed in the Response Plan.

OPA 90: Pollution Act of 1990

OSPR: Office of Spill Prevention and Response, California Department of Fish and Game

OSRO: Spill Removal organization

PREP: National Preparedness for Response Exercise Program Guidelines

QI: Qualified Individual is the person who has authority to activate OSRO's, act as liaison with On Scene Coordinator(s), and obligate funds required to effectuate response activities. This person is typically the same as the Incident Commander and is often the Team Leader.

Qualified Individual Notification Drills: Qualified Individual Notification exercises verify that contact can be made with a QI.

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

Tabletop Exercise: A Tabletop Exercise is an activity where a response team gathers together to play out and discuss response actions to be taken to a given scenario using their emergency response plan. Tabletop Exercises are typically conducted in a conference room, although they may also be conducted off-site in a field location.

Unannounced Exercise: An exercise where the participants do not know the scenario in advance of the exercise, but may know the date, time and location.

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18****EXERCISE DESIGN FORM**

Exercise Design Coordinator(s) _____

Scheduled Date(s) of Exercise _____

Location of Exercise _____

Type of Exercise

☐

QI Notification

☐

Tabletop

☐

Unannounced

☐

Equipment Deployment

☐

Area Exercise

☐

Government-led PREP Exercise

This Exercise is designed to satisfy the following National PREP Objectives:

☐

Notifications

☐

Staff Mobilization

☐

Ability to operate within the Response Management System described in the plan

☐

Discharge control

☐

Assessment of discharge

☐

Containment of discharge

☐

Recovery of spilled material

☐

Protection of sensitive areas

☐

Disposal of recovered material and contaminated debris

☐

Communications

☐

Transportation

☐

Personnel support

☐

Equipment maintenance support

☐

Procurement

☐

Documentation

This Exercise is being designed to satisfy the following deliverables:

☐

Notifications

☐

Incident Briefing 201

☐

Initial Unified Command Meeting

☐

UC Objectives Meeting

☐

Tactics Meeting

☐

Planning Meeting

☐

Construct and Complete Active Situation Display

☐

Establish Joint Information Center and produce one written press release at least one verbal, role played press briefing

☐

Other _____

☐

Other _____

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

List Local, State and Federal Agencies and OSRO's you wish to invite:

☐

Fire Department(s):

Name of Agency

Contact

Telephone Number

☐

State Spill Response Agency:

☐

Federal Response Agency(s):

☐

Additional agencies you wish to invite:

☐

Oil Spill Removal Organizations (OSRO's):

Brief paragraph(s) describing the Exercise scenario:

COMPANY CORE PLAN

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)

SECTION 18

Exercise Agenda Day 1	
Time	Activity
Exercise Agency Day 2 (if applicable)	
Time	Activity

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18****Initial Response Team ICS Organization**

	Position	Name	Telephone Number
<input type="checkbox"/>	Incident Commander		
<input type="checkbox"/>	Deputy IC		
<input type="checkbox"/>	Safety Officer		
<input type="checkbox"/>	Liaison Officer		
<input type="checkbox"/>	Operations Section Chief		
<input type="checkbox"/>	Logistics Section Chief		
<input type="checkbox"/>	Planning Section Chief		
<input type="checkbox"/>	Finance Section Chief		
<input type="checkbox"/>	Public Information Officer		
<input type="checkbox"/>	Documentation Unit Leader		
<input type="checkbox"/>	Resources Unit Leader		
<input type="checkbox"/>	Environmental Unit Leader		
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

Controllers, Evaluators, Facilitators, Observers you wish to invite:

Name	Agency or Company	Role (Controller, Evaluator, Facilitator and so forth)	Telephone Number

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

Suggested lodging or other logistical notes for Exercise attendees:

<input type="checkbox"/>	Lodging	_____
<input type="checkbox"/>	Nearest Airport	_____
<input type="checkbox"/>		_____
<input type="checkbox"/>		_____
<input type="checkbox"/>		_____
<input type="checkbox"/>		_____
<input type="checkbox"/>		_____
<input type="checkbox"/>		_____

Anticipated Exercise planning meetings:

When	Where	Meeting or Teleconference
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Will additional Exercise Design persons be needed?

☐ Yes

☐ No

Name	Company	Telephone Number
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____


Attachments as necessary:

☐ Command Post Floor Plan
☐ Scenario Map Sketch

☐ Trajectories
☐ ACP's

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

Scenario map sketch:



EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

Command Post floor plan sketch:

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)

COMPANY CORE PLAN

SECTION 18

Additional notes or comments and supplies needed:

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18****COMPANY EXERCISE DOCUMENTATION FORMS****Notification Exercise and ERP Contact Information Verification**

Location: _____

Team(s): _____

Date performed: _____

Exercise or actual response? _____

Vessel/Facility/Pipeline/Offshore Facility initiating exercise: _____

Name of Responder Making the Notification	Name of person(s) (and OSRO if in California) notified	Is person and phone number identified in ERP as QI or designee? Yes/NO (Verify person and number)	Time initiated	Time in which qualified individual or designee responded	Method used to contact: Telephone Pager Fax Other	Is ERP update necessary? (See note)

Certifying Signature_____
Title_____
Date

Retain completed forms for a minimum of 3 years (for USCG/PHMSA/BSEE) or 5 years (for EPA).

Note: If ERP update is necessary contact the Emergency Response Specialist.

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18****Spill Management Team Tabletop Exercise**

Location: _____ Date(s) performed: _____

Team(s): _____

Exercise or actual response? _____

If an exercise, announced or unannounced? _____

Location of tabletop: _____

Time started: _____ Time completed: _____

Response plan scenario used (*check one*):

- ☐ Average most probable discharge
- ☐ Maximum most probable discharge
- ☐ Worst case discharge

Size of (simulated) release (bbls): _____

Describe how the following objectives were exercised:

Spill Management Team's knowledge of release response plan:

Proper notifications:

Communications system:

Spill Management Team's ability to access contracted release removal organized:

- ☒ Yes ☐ No

The following OSRO's were successfully contacted and utilized during the response:

Additional non-OSRO contract resources were contacted and utilized from the following organizations:

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18****Spill Management Team's ability to coordinate release response with On-Scene Coordinator, State and applicable agencies:**

Unified Command was established with (Names of participating agencies):

Attach Unified Command Organization Chart

Were Unified Command meetings held? ☐ Yes ☐ No

Were Incident Action Plans developed and approved by the Unified Command?

☐ Yes ☐ No

Additional agencies that participated on-scene included:

Spill Management Team's ability to access sensitive site and resource information in the ERP or Area Contingency Plan:

List sensitive areas or GRP's accessed:

Identify which of the objective(s) of your response plan were exercised during this particular exercise:

- | | |
|--|--|
| <input type="checkbox"/> Notifications | <input type="checkbox"/> Protection |
| <input type="checkbox"/> Staff Mobilization | <input type="checkbox"/> Disposal |
| <input type="checkbox"/> Incident Command System | <input type="checkbox"/> Communications |
| <input type="checkbox"/> Unified Command System | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Discharge Control | <input type="checkbox"/> Personnel Support |
| <input type="checkbox"/> Assessment | <input type="checkbox"/> Equipment maintenance and support |
| <input type="checkbox"/> Containment | <input type="checkbox"/> Procurement |
| <input type="checkbox"/> Recovery | <input type="checkbox"/> Documentation |

(Certifying signature on next page)

COMPANY CORE PLAN

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)
SECTION 18

I hereby certify that this response/exercise has been conducted in a manner sufficient to satisfy The National Preparedness for Response Exercise Program (PREP) Guidelines in order to satisfy the requirements of 30 CFR 254, 33 CFR 154, 40 CFR 112, and 49 CFR Parts 192 and 194.

_____	_____	_____
Certifying Signature	Title	Date

Retain completed forms for a minimum of 3 years (for USCG/PHMSA/BSEE) or 5 years (for EPA).

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18****Response Equipment Deployment Exercise/Testing/Inspection**

Location: _____ Date(s) performed: _____

Team(s): _____

Exercise or actual response? _____

If an exercise, announced or unannounced? _____

Deployment location(s): (list or attach sketch)

Time started: _____ Time completed: _____

Equipment deployed was:

☐

Facility-owned

☐

OSRO-owned. If so, which OSRO? _____

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

EMERGENCY RESPONSE RELEASE EXERCISES (HES 706)**COMPANY CORE PLAN****SECTION 18**

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

Attach description of lesson(s) learned and person(s) responsible for follow up of corrective measures.

Certifying Signature

Title

Date

Retain completed forms for a minimum of 3 years (for USCG/PHMSA/BSEE) or 5 years (for EPA).

CHEVRON FUNCTIONAL & WORLDWIDE TEAM RESOURCES

CHEVRON FUNCTIONAL & WORLDWIDE TEAM RESOURCES

COMPANY CORE PLAN

SECTION 19

SECTION 19 CHEVRON FUNCTIONAL & WORLDWIDE TEAM RESOURCES

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EMERGENCY RESPONSE RESOURCE SHEET

ADVISORY & RESOURCE TEAM - INTERNAL

DESCRIPTION:

The Advisory & Resource Team can provide expert advice during the initial stages of an incident and assist in marshalling a wide variety of internal and external resources as needed. The team is composed of a management representative from the impacted operating company and experts in emergency response, ecology, law, public affairs, safety and health, and if needed, marine transportation.

Once activated, Members are prepared to arrive at their local commercial airport within two hours of notification. The Team will report to the Incident Commander upon arrival at the incident.

**HOW TO
ACCESS:**

To activate the team, call the Chevron Emergency Information Center at 1-800-231-0623 or 1-510-231-0623 and ask to speak to the Corporate Emergency Response Staff Duty Contact.

**ADDITIONAL
INFORMATION:**

The Advisory & Resource Team is organized to function only during the initial stage of an incident. As the response progresses, the responding organization may request individual members to become part of the local response team.

Team members who may respond to foreign incidents are prepared to travel internationally on short notice. They have passports and inoculations recommended by the Medical Staff.

The emergency response, safety and health, and ecology team members have received the required level of HAZWOPER training for their expected duties.

EMERGENCY RESPONSE RESOURCE SHEET**INTERNAL****AIR DISPERSION MODELING (ETC)**

DESCRIPTION: During a fire, gaseous release or explosion, the Loss Prevention Unit can provide technical consulting services and interface with agencies conducting “real-time” air dispersion modeling. “Real-time” modeling is recommended only during incidents that are expected to continue for several hours or days such as a sour gas/crude well blow-out an extended flaring event, or a large tank fire. Air dispersion modeling can help estimate the potential impacts of such incidents on the facility and surrounding community.

HOW TO ACCESS:

During regular work hours contact the team directly:

Name	Office
W. W. (Wilbert) Lee	510/CTN 242-9330
R. (Rick) Welty	510/CTN 200-7192

After hours call Chevron Emergency Information Center (CEIC) at **1-800-231-0623 or 1-510-231-0623**. They will be able to place you in contact with a Loss Prevention Unit member.

Alternatively, contact the Emergency Response Staff (see Emergency Response Staff Resource Sheet) which will in turn notify the Loss Prevention Unit personnel.

ADDITIONAL INFORMATION:

The Team is available for conducting studies during pre-planning. Various hypothetical scenarios can be evaluated, potential hazard zone information developed and response actions planned in advance. For most short-term incidents, this is the preferred option. Procedures are developed and refined in well-designed studies as opposed to during an emergency when incorrect information can produce flawed and potentially unsafe recommendations.

The Process Risk Team expertise includes predicting the extent of flammable vapors, dispersion of toxic vapors/gases, radiant heat from jet/pool fires, radiant heat from a BLEVE, and the extent of blast over-pressure impacts from an explosion.

The Team can also provide support services in post-incident investigation (re-creation and simulation), litigation, and reporting.

EMERGENCY RESPONSE RESOURCE SHEET**CHEMNET - EXTERNAL**

DESCRIPTION:

CHEMNET is a mutual aid network intended to provide technical expertise and assistance at the scene of a Chemical Distribution Incident (CDI) in the USA when the shipper cannot respond promptly. A CDI can involve any material including petrochemical intermediates, products and wastes. CHEMNET may also be used to identify companies capable of supplying HAZWOPER trained personnel for oil spill response.

Once at the scene, as directed by Chevron, the CHEMNET responder will provide technical advice and assistance to reduce the severity of the incident and/or determine the status of the incident and report back to Chevron.

Response will be by "For-Hire Contractors" meeting criteria set by the American Chemistry Council (formerly CMA). The initial commitment is for the first 24-hours. Chevron is obligated to send its own qualified representatives to the scene as soon as practicable or make other arrangements for a continued response.

**HOW TO
ACCESS:**

Call CHEMTREC at its 24-hour number:
800-424-9300

Provide your name, company, phone number, details of the incident and indicate that you wish to activate CHEMNET. The CHEMTREC Communicator will then discuss possible response contractors with you and set up a 3-way teleconference to get the response underway.

A Chevron representative must be available for contact by the response contractor and provide advice on the properties of the material(s) involved and other assistance requested. After establishing themselves at the scene of the incident, the responders will try to contact and maintain periodic communications with Chevron.

**ADDITIONAL
INFORMATION:**

The American Chemistry Council (formerly CMA) via their CHEMTREC network operates CHEMNET. It was organized because of the realization that the consequences of a spill or potential release may be made less serious if a knowledgeable representative is at the scene to give advice and assistance.

If the incident cannot be resolved within 24 hours, the operating company involved must decide whether to: 1) contract with the CHEMNET Responder to continue its work, 2) bring in other third-party contractors to handle the incident, or 3) request mutual aid from other Chevron companies.

Costs for the response services will be in accordance with the current schedule of charges in effect under the CHEMNET For Hire Response Company Contract.

EMERGENCY RESPONSE RESOURCE SHEET

CHEMTREC - EXTERNAL

DESCRIPTION: CHEMTREC (Chemical Transportation Emergency Center) can provide emergency response information such as: chemical hazards: initial response actions to take, or medical advice for chemical and hazardous material release emergencies. The information generally is taken from MSDSs supplied by shippers. CHEMTREC will also notify the material shipper and in some cases, the manufacturer so that they can take appropriate action.

**HOW TO
ACCESS:**

Chemical Emergency: In the United States, Puerto Rico, American Virgin Islands, Canada, and parts of Northern Mexico call CHEMTREC at their 24-hour number **800-424-9300**. Outside of these areas and ships at sea dial the International/Maritime number **703-527-3887**.

Identify yourself (name, company, and phone number), state that you have a chemical emergency and give the chemical, product or trade name of the released material. Request the desired information regarding the material or advise CHEMTREC you are reporting a chemical transportation incident. If you are reporting a chemical transportation incident, the CHEMTREC communicator will ask specific questions to initially identify the chemical involved in the incident, the location of the incident, and the shipper of the chemical.

**ADDITIONAL
INFORMATION:**

CHEMTREC was established and is operated by the American Chemistry Council (formerly CMA) at its Washington, D.C. headquarters. Through Chevron Oronite Company's membership in ACC, all Chevron facilities are entitled to use CHEMTREC to provide initial emergency response information on its products and are authorized to place the CHEMTREC telephone number on its shipping papers and MSDSs.

CHEMTREC maintains a state-of-the-art computer database with more than one-million product-specific MSDSs, including MSDSs for all of Chevron Oronite's products. CHEMTREC communicators can access an MSDS in seconds, view it on-screen and immediately FAX it to the incident scene if desired.

CHEMTREC has contracted with the San Francisco Bay Area Regional Poison Control Center for 24-hour medical emergency response assistance and support. The contract enables CHEMTREC to more promptly respond to emergency requests for medical advice.

CHEMTREC has interpretation services for over 140 languages and can bring a skilled interpreter into the call within seconds, 24 hours a day.

EMERGENCY RESPONSE RESOURCE SHEET**CHEVRON EMERGENCY INFORMATION CENTER (CEIC) - INTERNAL**

DESCRIPTION: The Chevron Emergency Information Center (CEIC) is Chevron's 24-hour single point of contact for accessing information and resources to address incidents involving ChevronTexaco and our affiliate's products and facilities. CEIC determines the appropriate expert personnel to contact within Chevron using information provided by the caller, following the "Immediate Notifications Procedure for HES Incidents" procedure, and a flowchart. CEIC immediately contacts and passes on the information about the incident to the Chevron personnel who are then responsible for further handling of the incident.

HOW TO ACCESS: Phone:

Inside United States and Canada	1-800-231-0623
Inside Area Code	1-510-231-0623
Outside United States	1-510-231-0623

Fax: **1-510-242-3787**

ADDITIONAL INFORMATION: CEIC's contacts within Chevron include designated representatives from each Operating Company, the Corporate Emergency Response Staff, ETC toxicologists (HERO Team) and Corporate support staffs including Public Affairs and Law.

CEIC is operated by Chevron Business and Real Estate Services (BRES) personnel. The Center is located at the Chevron Energy Research and Technology Company's Facility in Richmond, CA.

CEIC maintains written records of each call received and summarizes these annually.

EMERGENCY RESPONSE RESOURCE SHEET

CHEVRON FUNCTIONAL TEAMS – INTERNAL

DESCRIPTION: Thirteen Functional Teams are available to provide expert, specialized services that are essential to support a response organization. Each team has developed a ready organization to assist an operating company in responding to incidents worldwide. Functional Teams may assemble at the incident site and/or at the operating company's headquarters or other facility. Functional Teams are augmented by contract personnel or consultants when necessary to assure worldwide coverage expertise.

The 13 Functional Teams are:

Communications	Law
Comptroller's	Public Affairs
Documentation	Purchasing
Environmental	Safety, Fire & Health
Facilities	Security
Human Resources	Transportation
Insurance/Claims	

Operating companies may activate one or as many people they feel they need for the response. When activated, team members will report to and, work directly for the organization handling the incident.

HOW TO ACCESS: To activate the Functional Teams, contact the Corporate Emergency Response On-Duty Person by calling CEIC at 1-510-231-0623 or 1-800-231-0623.

Team members are preauthorized to respond to a call from any operating company and are prepared to arrive at their local commercial airport within 24 hours of notification.

ADDITIONAL INFORMATION: **Team Services.** The emergency response support services which the Functional Teams can provide are summarized below.

Communications: Set-up and operation of an integrated communications network using radios, telecommunications, and other technology.

Comptroller's (Finance): Accounting, cost control, office support functions.

Documentation: Responsible for maintenance of accurate up-to-date incident files, (IAP) Record keeping, situation status report documentation, and administrative support. Ensures each section provides and maintains appropriate documents.

Environmental: Environmental impact assessment, permitting, modeling, environmental monitoring, wildlife rescue and rehabilitation, response and remediation technology (dispersants, solidifiers, bioremediation), waste management.

Human Resources: Staffing of the response team, direct human resources services to response team members, emergency relief assistance to affected parties.

Insurance/Claims: Receive and resolve third-party injury and property damage claims, management of insurance-related matters.

Law: Advice on actual and potential legal and liability actions from governmental agencies and third parties, verify compliance with legal requirements, and other legal support.

Public Affairs: Media relations, press releases, government agency and community leaders interface, advice on communication to the public, volunteer referrals.

EMERGENCY RESPONSE RESOURCE SHEET

Purchasing: Procurement and storage of equipment and material management.

Safety, Fire & Health: Technical advice and direct field support on safety, industrial hygiene, fire protection, toxicology, medical support to response personnel and medical liaison with community public health authorities. Also includes three regional “Fire Strike Task Forces” that can respond to a fire or similar incident in their geographical area.

Security: Liaison with local law enforcement, site security, guard services, site access control, theft prevention, personal security.

Transportation: Transportation for personnel, equipment and supplies.

EMERGENCY RESPONSE RESOURCE SHEET**COMMUNICATIONS EQUIPMENT - INTERNAL**

DESCRIPTION: The Communications Functional Team maintains (in Bakersfield, California) a cache of communications equipment emergency response anywhere in the world. The equipment includes a complete data network, phone systems, satellite terminals and support equipment in addition to a land/sea/air transportable communications trailer.

HOW TO ACCESS: Contact the [Communications Functional Team](#) directly or contact the Emergency Response Staff by contacting CEIC at (800) 231-0623.

ADDITIONAL

INFORMATION: Half the equipment is mounted in the trailer, which may be driven, loaded aboard a ship, or flown (on C-130 aircraft) to an incident. The other half is packaged in weatherproof shipping cases ready for quick transport. Each half includes a VSAT Satellite Terminal, Telephone system (75 digital and 25 analog lines), Data System with 56 LAN drops, Shared file servers for files, video, and web applications, UHF and VHF radio base stations, marine and aviation radio scanners. Trained personnel will accompany, set-up and operate the equipment.

Estimated costs for calling out the communications equipment with support personnel are: \$5,000 to air deploy the portable equipment within the United States or \$2,000 per day to drive the communications trailer on-site. On-site costs will be \$2,000 per day for the equipment and two support personnel.

To gain familiarity with the equipment and services of the Communications Functional Team, operating companies are encouraged to use this resource during drills. For a complete listing of the equipment, contact the Communications Functional Team.

EMERGENCY RESPONSE RESOURCE SHEET**CORPORATE EMERGENCY RESPONSE STAFF - INTERNAL**

DESCRIPTION: The Corporate Emergency Response Staff is responsible for providing guidance and subject matter expertise for emergency response, crises management and business continuity. This group establishes and maintains mutual aid relationships with internal and external organizations, trains and supports emergency response teams and conducts drills to assess and improve readiness.

A member of the Corporate Emergency Response Staff will also function as the Team Leader when an Advisory and Resource Team is dispatched (see [Advisory and Resource Team Resource Sheet](#)).

HOW TO ACCESS: The Corporate Emergency Response Staff Duty Contact can be accessed during an emergency by calling the Chevron Emergency Information Center (CEIC - See Chevron Emergency Information Center Resource Sheet) at 1-800-231-0623 or 1-510-231-0623. During business hours, one can directly call any of the Staff members at their respective offices. The Staff members are identified in the Corporate Emergency Response Staff Intranet website (see Additional Information Section).

ADDITIONAL INFORMATION: Corporate Emergency Response has a website on the company's Intranet. The website can provide valuable information about the Emergency Response Staff and the internal and external resources available. The website provides information on business continuity and crises management, also. The location is:
<http://operationalexcellence.chevron.com/ER/>

The Emergency Response Staff is part of the Corporate Health, Environment and Safety Department.

EMERGENCY RESPONSE RESOURCE SHEET

CRAWFORD AND COMPANY - EXTERNAL

DESCRIPTION: Crawford & Company can handle third party injury and damage claims resulting from explosions, fires, chemical releases and oil spills. They also offer a cost containment program which uses bar-coders to identify and track cleanup resources. This database is used to provide logistics reports, cost estimation reports and reconcile contractor billings through invoice review.

Crawford adjusters work under the supervision and guidance of Chevron's Insurance Division, Liability Claims group (the Insurance/Claim Functional team).

HOW TO ACCESS:

Crawford & Company can be activated by contacting the 24-hour emergency number **404-705-3540**. Be prepared to provide the following information:

- your name, company name
- telephone and fax number
- nature and location of the emergency
- nearest airport
- if the public has been evacuated or threatened and if so how many
- if would you like to establish an "800" claims number.

Your call will be returned within 20 min. by a Crawford Claims Specialist who will act as the point of contact and coordinator of Crawford & Company's response.

Upon activation immediately contact the Insurance/Claims Functional Team (see call-out list). The team will immediately appoint a representative to provide supervision and guidance for Crawford & Company operations.

Alternatively contact the Emergency Response Staff (see Emergency Response Staff resource sheet) or the Insurance/Claims Functional Team (see call out list), which will in turn contact Crawford & Company.

ADDITIONAL

INFORMATION: For large incidents Chevron employs Crawford & Company's "PROACT" unit which is staffed with more than 200 adjusters specially trained to handle injury and property damage claims. The adjusters will process all claims that result from the incident. Adjusters work for a representative of Chevron's Insurance Division. The Insurance Division working with the impacted OpCo will establish the claims strategy, settlement authority, data collection and reporting requirements.

Crawford's cost containment services are limited to controlling the cost of an operation as opposed to directing the actual cleanup. They do not select contractors, determine appropriate cleanup methods, or authorize work to be performed.

EMERGENCY RESPONSE RESOURCE SHEET**CHEVRON PARK CRISIS MANAGEMENT CENTER - INTERNAL**

DESCRIPTION: The Chevron Crisis Management Center (CMC) is available to the Corporate Crisis Management Team and to any operating company or corporate department crisis or emergency management team. The CMC is in Building H at Chevron Park and is available 24 hours per day and 365 days per year. By pre-arrangement, it can be used for training and exercises. The CMC is a dedicated facility that includes a central open area designed to serve as a traditional incident command post. The open area is surrounded by three conference rooms and six private offices, copy/prINTER and storage rooms, and a break room to support catering.

**HOW TO
ACCESS:**

Chevron Park, Building H, Lower Level: Prior to coming to the CMC, everyone must first go to Building A Security and obtain a pre-approved temporary badge. (An incident-specific list of individuals reporting to the CMC will be provided to Security prior to picking up the badge). Proceed to Building H and enter the CMC through the northwest door which is inside the parameter of Chevron Park near the pond.

Any member of the Corporate Crisis Management Team can request the CMC be activated.

- Call **CEIC (510-231-0623)** and ask for someone from the Emergency Response Staff to be paged. Leave a call-back number.
- When ERS Duty Person calls back, tell them to activate the CMC.
- The CMC will normally be available for use within two hours.
- Anyone else can request the CMC be activated by following the same procedure. In such cases, someone from the Emergency Response staff will need to approve the activation.

**ADDITIONAL
INFORMATION:**

For routine inquiries about the CMC, call Michele Linton at (925-842-7407)

EMERGENCY RESPONSE RESOURCE SHEET**CSI AVIATION SERVICES, INC. - EXTERNAL**

DESCRIPTION: CSI Aviation Services, Inc. (d.b.a. Charter Services) arranges for and coordinates air charter flights to transport Chevron's personnel or cargo worldwide in emergency response situations. CSI has representatives on call 24 hours a day who are capable of initiating a priority response and taking the actions necessary to provide aircraft charters for an emergency response operation.

CONTACT

INFORMATION: Call CSI at their 24-hour telephone number **505-761-9000**. Identify yourself (name, company, and phone number) and describe the desired services and charter requirements needed. Reference the Master Professional Service Agreement dated January 31, 1992 in your service or work order.

Main Number: (505)-761-9000
Fax: (505)-342-7377
Email: csi@csiaviation.com (non-emergency info only)
emergency@csiaviation.com (emergency info only)

After standard business hours (8 am to 5 pm MST) please leave a message in option #3 "Emergency Service" for an immediate call back.

ADDITIONAL**INFORMATION:**

The Master Professional Service Agreement allows any Chevron operating company, subsidiary, or affiliate to retain CSI for arrangement of air charters for oil spill preparedness and response and for routine business. Charges will be invoiced directly to the organization which uses their services.

CSI is currently the nation's largest and oldest air charter management company of its kind. Established in 1979, CSI has grown to its present position as a diversified and uniquely specialized aviation services company. Capabilities range from individual, ad hoc passenger and cargo charters to comprehensive air charter management for multiple aircraft programs to aircraft leased on an Aircraft, Crew, Insurance, and Maintenance (ACIM) and Aircraft, Insurance, and Maintenance (AIM) basis. CSI provides on-demand air charters for corporations, incentives and meetings, athletics, and government agencies. It also provides technical services under contract to twelve (12) U.S. airlines for various government contracts. Charters vary from small, executive aircraft missions, to large wide-body aircraft movements of thousands of passengers, to on-demand freighter aircraft. CSI has similar agreements in place with several oil companies and corporations worldwide.

EMERGENCY RESPONSE RESOURCE SHEET**CULTURAL RESOURCES (HISTORIC PROPERTIES) - INTERNAL**

DESCRIPTION: Cultural Resources (Historic Properties) may be adversely affected during a spill or release and the ensuing response. Laws exist in many jurisdictions around the world protecting these sites and establishing a protocol for their preservation and treatment.

Expertise in the identification, location and conservation of these sites is available through Chevron's Environmental Functional Team and retained external consultants.

**HOW TO
ACCESS:**

During regular work hours contact Tina Toriello of the Environmental Functional Team (EFT) directly:

Tina Toriello

510/CTN 242-4036

or

**External Consultant Network: URS Greiner Woodward Clyde
Vance Bente: 510-874-3274 or 510-874-3013**

Alternatively contact the [Environmental Functional Team](#) or a member of the Emergency Response Staff (see appropriate Resource Sheets).

**ADDITIONAL
INFORMATION:**

Tina Toriello is available for consulting to draft studies and other projects during pre-planning for potential incidents. Vance Bente and his staff of archeologists and historians have an international network of experts available to carryout studies, remediation, identification, and evaluation of cultural resources. Training for spill responders in identification and preservation of sites is also available. All are HAZMAT qualified.

EMERGENCY RESPONSE RESOURCE SHEET**ENTRIX, INC. - EXTERNAL**

DESCRIPTION: ENTRIX can provide environmental expertise during oil and hazardous material emergencies worldwide. The services can include: environmental monitoring during and after response; Natural Resource Damage Assessment (NRDA) work; ephemeral data collection; Shoreline Cleanup Assessment Teams (SCAT); habitat protection and restoration; bioremediation; training programs; and other spill remedial actions.

HOW TO ACCESS: ENTRIX can be activated by contacting their 24-hour emergency number **800-476-5886** or through the Emergency Response Staff (see Emergency Staff Resource Sheet). Identify yourself (name, company, and phone number), state that there has been a spill, and request that ENTRIX respond to the incident. Supply as much information as possible about the incident, where ENTRIX should respond, and the name and phone number(s) of the on-scene contact person. Reference the Chevron Corporation Master Professional Service Agreement dated October 1, 1991 in your service or work order. Alternatively, contact the Emergency Response Staff, which will in turn contact ENTRIX.

ADDITIONAL INFORMATION: The contract allows for any Chevron operating company, subsidiary, or affiliate to retain ENTRIX, Inc. for oil and hazardous material spill preparedness and response consulting. The Chevron Environmental Functional Team has used ENTRIX's services in company spill exercises as well as several actual oil spills.

Cost of services performed by ENTRIX will be charged to the organization requesting the services. Contact Dr. P. Y. O'Brien, Mr. M. Ammann, or Dr. P. Samuels for a copy of ENTRIX's current fees schedule. The ETC-HES Group handles all invoices.

Non-emergency Services: Contact or send a written request to P. Y. O'Brien, M. Ammann, or P. Samuels. Allow at least two weeks for handling of the request.

Specify:

- services requested, dates or length of time for which services are desired
- work location, organization making the request, and name and phone number of contact person
- charge number

Alternatively, any Chevron organization can contact ENTRIX directly for immediate response to non-emergency services through:

Dr. Gordon Robilliard, ENTRIX Vice President
grobilliard@entrix.com
253-858-2114 (office)
1-800-316-1683 (pager)
web site: www.entrix.com

EMERGENCY RESPONSE RESOURCE SHEET**RETC HERO SQUAD - INTERNAL**

DESCRIPTION: The Hazmat Emergency Response Officer (HERO) squad at ETC is available to advise on chemical properties, reactivity and decontamination issues associated with Chevron products.

The HERO team provides advice to Operating Companies or on-scene Chevron responders when requested. They are available by phone 24/7. They would not normally participate at the scene of an incident.

**HOW TO
ACCESS:**

To access the squad, call the Chevron Emergency Information Center (CEIC) at (800) 231-0623 or (510) 231-0623. Tell the technician you need to talk to someone from the HERO squad. Leave your name, location, and phone number. The technician will locate the on-call HERO or a back up and that person will call you back.

**ADDITIONAL
INFORMATION:**

The team members are experienced chemists and chemical engineers. All are certified as Level 3 and Level 5 (Incident Commander) Emergency Phase and Management/Supervisor level HAZWOPER post-ER training.

EMERGENCY RESPONSE RESOURCE SHEET**INTERNATIONAL BIRD RESCUE RESEARCH CENTER (IBRRC) - EXTERNAL**

DESCRIPTION: IBRRC provides consultation and on-site management, training, development and direction for oiled bird and animal rescue and rehabilitation during oil spill response. IBRRC is recognized worldwide as the expert organization for oiled bird rehabilitation.

Upon notification, IBRRC will activate the necessary trained emergency response personnel who manage all aspects of an oiled wildlife response.

**HOW TO
ACCESS:**

Contact IBRRC by calling the (707) 207-0380, dial operator, fax: (707) 207-0395. Identify yourself (name, company and phone number) and specify the type of service desired. Reference the Chevron U.S.A. Inc. Retainer Agreement in your service or work order. Or, contact the Emergency Response Staff (see Emergency Response Staff resource sheet), which will in turn contact IBRRC headquarters. During non-business hours the answering service will take a message and contact an IBRRC employee who will call you back for more details in order to assemble a team to respond to the incident.

**ADDITIONAL
INFORMATION:**

Founded in 1971, IBRRC is a nonprofit organization in the field of rescue, rehabilitation, research and release of oiled wildlife. In addition to providing oil spill response services, IBRRC operates two facilities, the San Francisco Bay Area headquarters located at Fairfield, and the Los Angeles bay area facility at San Pedro for the treatment of oiled and non-oiled wildlife, with a specialty in aquatic birds.

Regional representatives are available for oil spills, exercises, training and consultations. For more information contact the following representatives:

**International Bird Rescue
Research Center (IBRRC)**

4369 Cordelia Road
Fairfield, CA 94534

Main line: (707) 207-0380
Fax: (707) 207-0395

Pacific Northwest

Curt Clumpner
1526 Franklin Avenue
Astoria, OR 97103

Cell: (b) (6)
Home: (b) (6)
E-mail: curtc351@aol.com

Federal Express:
1526 Franklin Avenue
Astoria, OR 97103

EMERGENCY RESPONSE RESOURCE SHEET**Hawaii/Pacific****Linda Elliot**

PO Box 506

Hawaii, HI 96719

Home: (b) (6)

E-Mail: ibrrchi@aol.com

Federal Express:

55-3435 Puu Mamo Drive

Hawaii, HI 96719

Alaska**Barbara Callahan**

1142 H St.

Anchorage, AK 99501

Home: (b) (6)

Work: 907-562-1326

Nextel use outside of Alaska:

707-249-4871

Cell use for Alaska Calls:

(b) (6)

Fax: 907-562-2441

E-Mail: bcallahan.ibrrc@ifaw.org

Federal Express:

Alaska Wildlife Response Center

6132 Nielson Way

Anchorage, AK 99518

EMERGENCY RESPONSE RESOURCE SHEET**TOM MCCLOSKEY / THE MCCLOSKEY GROUP, INC. - EXTERNAL**

DESCRIPTION: Tom McCloskey is an expert in the organization and management of emergency response and crisis management operations. Mr. McCloskey has worked extensively for every Operating Company in Chevron. His services are invaluable in helping an organization move quickly from an emergency to a project phase.

**HOW TO
ACCESS:**

Contact The McCloskey Group at:

Phone 206-780-2282

FAX 206-780-2383

Pager 800-SKY-PAGE (Pin # 577-2668)

E-mail mccloskeys@bainbridge.net

or contact the Emergency Response Staff (see Emergency Response Staff resource sheet), which will in turn contact Mr. McCloskey. Reference the Master Professional Service Agreement dated March 28, 1991 in your service or work order.

**ADDITIONAL
INFORMATION:**

The McCloskey Group also provides other services, such as Incident Command System (ICS)-based Response Management System training, assisting with or conducting emergency exercises and drills, and contingency planning.

Tom McCloskey is considered a leading provider of emergency response and crisis management services not only for Chevron, but for dozens of other companies with operations in more than 30 countries.

The Master Professional Service Agreement allows for any Chevron Operating Company, subsidiary, or affiliate to retain The McCloskey Group's services for response activities, training, participation in exercises and drills, and contingency planning. Charges will be invoiced directly to the organizations which use their services.

EMERGENCY RESPONSE RESOURCE SHEET**MARINE SPILL RESPONSE CORPORATION (MSRC) - EXTERNAL**

DESCRIPTION: MSRC provides equipment and personnel to respond to oil spills in the coastal and tidal waters of the USA except Alaska using its own extensive dedicated resources, as well as contractors. MSRC can provide traditional equipment such as boom and skimmers, dispersant application services, communications equipment, in situ burning equipment and, through a contractor network, inland spill response services, lightering and shoreline cleanup services. MSRC can also provide a significant amount of equipment and personnel for international deployment. See REACT Package under Additional Information. MSRC can assist in identifying contractors to provide services such as salvage and firefighting.

HOW TO ACCESS: MSRC will respond to call-out calls from an "Authorized Representative" (see Additional Information). To activate, call one of the following 24-hour numbers:

1-800-259-6772 or 1-800-645-7745 or 1-732-417-0175

and provide the following information (to extent known):

- Caller's name, position, phone, fax
- **CHEVRON/MSRC CONTRACT NUMBER - 6CHUSA01**
- Covered entity name (facility or vessel)
- Size and location of incident (nearest coastline)
- Spilled material and if it is classified as hazardous
- Specific resources wanted

The answering service will then quickly arrange a conference call between Chevron's Authorized Representative and/or Incident Commander and the appropriate MSRC personnel. The purpose is to review incident details and assist Chevron in deciding on the best initial response resources to mobilize.

ADDITIONAL INFORMATION: Authorized Representative
In lieu of designating specific persons from each facility, which change frequently, MSRC has agreed to respond to calls from Chevron employees which appear to be legitimate. The likelihood is increased if the caller can cite the MSRC/Chevron Contract Number and/or if the caller has made previous contact with local MSRC personnel. In case of doubt, MSRC will still initiate the response but may call a member of the Corporate Emergency Response Staff for verification.

EMERGENCY RESPONSE RESOURCE SHEET

MSRC Letters

Upon activation, MSRC will fax the Incident Commander a confirmation of call-out. This confirmation lists the resources requested by Chevron. If the Confirmation is inaccurate, please notify MSRC immediately. Depending on the situation, MSRC may also fax Chevron other letters requesting information and/or requiring action, such as:

- *Authorization for Discharge of Excess Water Associated with Mechanical Recovery Operations.* This letter asks Chevron to obtain the signature of the State and/or Federal on scene Coordinator to permit the discharge/decant of excess water back into the sea.
- *Hazardous Waste Generator Numbers for the Oil Spill.* This letter requests that MSRC be provided with Chevron's hazardous waste identification number as required by the EPA. In addition, the letter reminds the spiller that MSRC does not manage or dispose of hazardous waste.
- *Spill Response Activities Associated with the Spill.* This letter reminds Chevron of its responsibilities under the MSRC Service Agreement and highlights other related matters that MSRC believes should be addressed such as decanting, designation of the response area, etc.

Alert Status

MSRC has an "alert status" under which MSRC will undertake an internal readiness review but not mobilize resources.

24-Hour Rule

Chevron may activate MSRC resources under the 24-hour rule. Under this rule MSRC will only bill Chevron for out-of-pocket expenses, including fuel and overtime labor charges, if any, provided the resources are not used and turned around within 24-hours from the initial call-out.

REACT Package

The standard Package includes approximately 60,000 bbl of derated effective daily recovery capacity, 13,000 feet of boom and 7,000 bbl of temporary storage. The Package has been designed to fill out the cubic capacity and weight restrictions of a Boeing 747 aircraft. If 747 aircraft are not available, or the destination airport cannot accommodate one, smaller aircraft may be sourced. MSRC can also customize the Package. The REACT Package can also include handheld radios, base stations, and repeaters.

Communications Equipment

MSRC's Communications Suites, located throughout the continental U.S., have been designed for immediate transport. Each Suite can provide up to 100 Direct-in-Dial phones and dedicated fax circuits and equipment; radio service in the petroleum, marine and aviation bands; t; and LAN services. A Comms Suite is fully self-supporting and can be towed to a location and set up for full operation within 4-6 hours of arrival. MSRC provides the necessary personnel to operate the Comms Suite. The Communications Functional Team is very familiar with this equipment and can help supervise MSRC's personnel.

EMERGENCY RESPONSE RESOURCE SHEETRequirements for Access to MSRC Response Resource

In order for MSRC to provide response personnel and equipment the following criteria must be satisfied: (1) In U.S. jurisdictional waters the FOSC must be in a monitor or direct role, and (2) appropriate responder immunity or other suitable liability protection must be in place.

Response Management

Chevron will maintain responsibility for overall management and control of the response activity. MSRC will operate under Chevron's operation and control. If government directions are issued directly to MSRC, they will refer the directions to Chevron prior to taking action.

Operational Area

MSRC's Operational Area is the coastal and tidal waters, including the Exclusive Economic Zone and territorial seas of the U.S. (except Alaska and the Great Lakes), Hawaii, Puerto Rico, and the U.S. Virgin Islands, and inland on waterways with a navigable depth of 30 feet. On the Mississippi River, this area is limited inland to Baton Rouge.

Dues Credit

Chevron and other Marine Preservation Association (MPA) members receive a Dues Credit in the event they call out MSRC for a response. The dues credit equals the typical non-response mode cost of the equipment for the days it is used in the response. This credit reflects the fact that MPA's members have already funded the non-response mode cost of the equipment.

MSRC OSRO Classification

Within its operating area, MSRC is classified at the MM, W1, W2, W3 level for rivers/canals, inland and all 3 Ocean environments for vessels and MM, W1, W2 and W3 level for rivers/canals and inland environments for facilities. MSRC meets OSRO classification shoreline protection requirements throughout its Operational Area.

Contract

The Corporate Emergency Response Staff and Law Functional Team maintain ready access to the complete Service Agreement including the rate schedule.

Website - <http://www.msrc.org>

The following information is required for "Customer Access" to the MSRC website:

User: skimmer
Password: transrec

EMERGENCY RESPONSE RESOURCE SHEET**OIL TRAJECTORY MODELING - (OILMAP) - INTERNAL**

DESCRIPTION: OILMAP is a windows-based state-of-the-art oil spill trajectory and weathering model that runs on an IBM PC. It can be used both for contingency planning and spill response. Spill trajectories can be produced rapidly using basic coastline maps and ocean current data contained in the system and further enhanced for any location worldwide by the addition of more detailed data. OILMAP is replacing WOSM (Worldwide Oil Spill Model), our DOS-based spill response tool which is being phased out. WOSM is still available and in use in several operating companies, but will no longer be maintained.

HOW TO ACCESS: Modeling can be obtained through the Emergency Response Staff.

ADDITIONAL INFORMATION: The program operates in any of four modes:

- stochastic mode to identify probable impacts for contingency planning,
- trajectory mode without weathering,
- trajectory and fates including weathering by evaporation, emulsification, etc, or
- source identification mode (retracing to a probable source based location of impacts).

Detailed maps (NOAA BSB & NOS Charts, Map Tech Charts, etc.) water currents, wind data and oil properties (using NOAA's ADIOS database or nearly 1,000 oils) can be easily imported to improve modeling accuracy and usefulness. Users may add features such as facility maps, roads, shoreline types, and sensitive area locations. Data for these enhancements can be developed either using Chevron resources or outside contractors.

OILMAP runs on a Pentium PC, GIL compatible and Y2Kcompliant. OILMAP output can be viewed on-screen, printed directly in monochrome, gray-scale or color, or stored for further annotation. An OILMAP viewer is available (free) to review all model output, including animations.

For additional information on the model, training opportunities, or customizing it to a specific location, or ADIOS contact:

Tim Finnigan (CPTC) at 925 CTN 842 8006

EMERGENCY RESPONSE RESOURCE SHEET

OILED WILDLIFE CARE NETWORK (OWCN) - CALIFORNIA - EXTERNAL

DESCRIPTION: The OWCN provides rescue and rehabilitation for sea birds, sea otters, other marine mammals, and sea turtles in the event of an oil spill in California's marine waters.

HOW TO ACCESS:

Emergency Response: Contact Dr. Mike Ziccardi, Director of OWCN, who will then contact the nearest facility or organization to begin a rescue and rehabilitation operation. (OSPR may also activate the OWCN directly.)

Dr. Mike Ziccardi Pager - 530 792-7803
Wildlife Health Center 530 752-4167

Initial Notification: Identify yourself (name, company, and phone number), and provide the approximate spill volume, location, and product type.

Follow Up: As soon as the potential impact to wildlife is better known, have the Environmental Unit or the on scene Department of Fish and Game Biologist contact Dr. Mazet with this information and the number and locations of oiled wildlife (species) already found.

ADDITIONAL INFORMATION:

The OWCN was developed in response to California's Oil Spill Legislation. The primary focus of the Network is to provide wildlife care and rehabilitation facilities and highly qualified personnel to staff those facilities. When maximum caseloads are approached, those personnel available for search and rescue may decline and additional volunteers will be identified through OSPR's Volunteer Coordinator under the direction of the Unified Command. In most situations, the OWCN activities will be incorporated into the Wildlife Branch of an ICS.

The OWCN is made up of the following participating organizations:

North Coast Marine Mammal Center	Crescent City
Humboldt State University Marine Wildlife Care Center	Arcata
Santa Rosa Bird Rescue Center	Santa Rosa
Marine Mammal Center	Marin Headlands
International Birds Rescue & Research Center	Berkeley
UC Davis Wildlife Health Center	Davis
The Alexander Lindsey Jr., Museum	Walnut Creek
Peninsula Humane Society Wildlife Care Center	San Mateo
UC Santa Cruz Oiled Wildlife Care & Research Center	Santa Cruz
Monterey SPCA	Monterey
Monterey Bay Aquarium	Monterey
Pacific Wildlife Care	San Luis Obispo
Marine Mammal Center of Santa Barbara	Santa Barbara
Santa Barbara Wildlife Care Network	Santa Barbara
Ft. McArther Marine Mammal Center	San Pedro
Wetlands & Wildlife Care Center of Orange County	Huntington Beach
Friends of the Sea Lion Marine Mammal Center	Laguna Beach
Project Wildlife	San Diego
Seaworld of California	San Diego

EMERGENCY RESPONSE RESOURCE SHEET**OK'S CASCADE COMPANY - EXTERNAL**

DESCRIPTION: OK's Cascade Company provides emergency feeding, laundry and housing throughout the US. Services are available 24 hours, 365 days a year. Consulting services are available for feeding operations outside of the US or Canada.

**HOW TO
ACCESS:**

Call OK's Cascade at **1-800-458-8061** or **509-997-8072** for 24-hour service. Contact Jason Stuvland, Jake Conley or Howard Sonnichsen and identify yourself as Chevron.

Alternatively contact the Emergency Response Staff or the Facilities Functional Team (see call out list), which will in turn contact OK's Cascade.

**ADDITIONAL
INFORMATION:**

Founded in 1970, OK's Cascade is experienced in providing catering and support services to wildland firefighters and to other emergency responders during disaster operations. They have participated in numerous major disasters through their contract with FEMA and have responded to over 500 emergency dispatches for the National Forest Service. With equipment stationed throughout the US, they have the capacity to provide thousands of high quality meals per day and set up a self-supported city in a few hours after arrival.

OK's Cascade can also provide mobile shower facilities, staffing of mobile equipment, logistics coordination & consulting, dispatching and coordinating client's equipment needs, mobile laundry facilities and food service consulting.

Additional Information available at <http://www.oks.com>

EMERGENCY RESPONSE RESOURCE SHEET**OSRL/EARL GLOBAL ALLIANCE - EXTERNAL**

DESCRIPTION: Oil Spill Response Ltd, the world's largest international oil spill response company in alliance with East Asia Response Ltd, the largest oil spill response company in the Asia Pacific region provides expertise and resources for responding to oil spills worldwide.

OSRL, located in Southampton, England, and EARL, located in Singapore, have one of the world's largest equipment stockpiles. The Alliance maintains two large, dedicated cargo aircraft to guarantee quick response or dispersant application anywhere in the world.

HOW TO ACCESS:

Call the Duty Manager at OSRL or at EARL. The Duty Manager will take your details and ask for a faxed confirmation of authority to mobilize resources.

Alternatively call the Chevron Emergency Information Center and ask to speak to the Corporate Emergency Response Staff Duty Contact. The Duty Contact can assist in providing confirmation of authorization to mobilize resources.

OSRL Telephone: +44 (0) 23 8033 1551 Fax: +44 (0) 23 8033 1972 Pager: +44 (0) 20 8345 6789 Ask for Pager "OIL39" and provide telephone number and message	EARL Telephone: +65 6266 1566 Fax: +65 6266 2312
Chevron Emergency Information Center (CEIC) Telephone: +1 800 231 0623 (calls within the United States) +1 510 231 0623 (calls outside the United States) Fax: +1 510 242 3787 E-mail ceichl@chevron.com	

ADDITIONAL INFORMATION:

The Alliance is available for the response to spills of oil (broadly defined as "crude petroleum oil and any fraction thereof or any petroleum product") for which Chevron or an affiliate (50% or more ownership) has any interest.

Chevron has access to 50% of each type of equipment and response personnel not otherwise allocated. Thus, if another spill response is in progress for which 50% of the equipment was allocated, Chevron will have access to only 25% of each type of equipment (50% of what is currently available at the center).

For information on response services, oil spill response training courses, and consulting services provided by the Alliance, contact the Corporate Emergency Response Staff, or see the following websites:

www.oilspillresponse.com

www.earl.com.sg

EMERGENCY RESPONSE RESOURCE SHEET

POLARIS APPLIED SCIENCES, INC. (PAS) – EXTERNAL

DESCRIPTION: Polaris Applied Sciences, Inc. (Polaris) is a full-service integrated emergency response, scientific support, Natural Resource Damage Assessment, restoration, spill planning and training organization providing worldwide support for clients in the oil industry. Ed Owens of Polaris is one of the foremost experts on emergency response operations related to oiled shorelines, including shoreline assessment, protection, and clean-up. Gary Mauseth has been the principal investigator in over seventy spills, groundings, and natural resource damage assessment cases nationally and internationally. Elliott Taylor and Greg Challenger also provide primary response and investigation capabilities with expertise in ecology, geology, data management, Shoreline Clean-up Assessment or Advisory Team (SCAT) and NRDA support services. Polaris has worldwide experience including mangrove, coral and arctic environments. Polaris can also access other experienced personnel in a wide range of specialty fields as the need arises.

HOW TO ACCESS: To request emergency services, contact:

	Office	Cell	Home
Ed Owens / Principal	206 842-2951	(b) (6)	
Gary Mauseth / President	425 823-4841		
Elliott Taylor / Associate	206 780-0860		
Greg Challenger / Associate	425 823-4841		
Polaris Fax:	425 823-3805	Kirkland	
	206 842-2861	Bainbridge Island	

For the Emergency Response Staff (see Emergency Response Staff resource sheet). Reference the Chevron Master Service Agreement in your work order.

ADDITIONAL INFORMATION: Planning
Polaris has a staff of 8 full-time employees that provide pre-spill planning including classification of shorelines, identification of protection strategies and suggestions for response priorities and clean-up methods.

Scientific Support for Spill Response
Polaris has expertise in shoreline protection and cleanup operations and has considerable field experience worldwide in arctic, tropical and temperate environments. Polaris has prepared spill response field guides and training manuals for Environment Canada, API, MSRC, and other industry clients.

Following the EXXON Valdez spill, Ed Owens established the shoreline assessment field program, aerial VTR surveys, and a long-term fate and persistence monitoring study for Exxon.

EMERGENCY RESPONSE RESOURCE SHEET

SCAT

Polaris also provides training in SCAT (Shoreline Cleanup Advisory Team) methods and procedures. The pre-established agreements Polaris has in place define the terms and scope of services and pre-agreed rates, which range between \$75 and \$100 US/hour. These SCAT support personnel can be contacted through Polaris and can be contracted and managed directly by Chevron or Polaris.

NRDA

Implementation of scientific support during an oil spill response provides the client with a critical head start to Natural Resource Damage Assessment. Polaris personnel have provided scientific representation for damage claims ranging from simple to highly complex that require several years to settle. These natural resource damage claims have been based in marine, estuarine, freshwater and terrestrial environments and have included natural resources such as fisheries, birds, marine mammals, wetlands, coral reefs, aquatic and terrestrial vegetation, sand dunes, water, sediment, invertebrates, recreational use, and threatened and endangered species.

Restoration

Federal and many state regulations require restoration of services provided by injured resources in a spill either directly, by creation of similar services such as habitat, or by enhancing the quality of available habitats. Polaris personnel have acted as the technical representative for responsible parties on many restoration projects. Our services include: trustee liaison, development and assessment of alternative restoration/ compensation options, innovative conceptual project designs, project design coordination, permitting, contractor selection, and monitoring of construction and performance criteria.

Technical Training and Exercises

Polaris offers 1, 2 and 3-day Shorelines and Oil Spill Response training courses that provide a basic introduction to coastal processes, shoreline character, and the fate and behavior of spilled and stranded oil. Polaris personnel have also been key members of design, preparation, and control teams for a number of spill response exercises.

Training/Exercise Development

EMERGENCY RESPONSE RESOURCE SHEET

PRECISION PLANNING & SIMULATIONS, INC. - EXTERNAL

DESCRIPTION: Precision Planning & Simulations, Inc. (PPS) assists the oil industry in the conduct of oil spill response training and Preparedness for Response Exercise Program (PREP) exercises. In addition, PPS can assist with the establishment of a Situation Unit in the Planning Section for an actual oil spill or emergency response.

**HOW TO
ACCESS:**

Contact Tom Marquette directly at:

Office: (252) 330-4254

Cell: (b) (6)

E-Mail tmarquette@ppscorp.com

Alternate Contact is Paul Gebert at:

Office: (610) 469-1810

Cell: (b) (6)

E-mail: paulgebert@ppscorp.com

Web-Site address: www.ppscorp.com

**ADDITIONAL
INFORMATION:**

PPS is available to assist with the design; development, execution and evaluation of oil spill response training, and oil spill and security type exercises. In addition, PPS can provide assistance with actual oil spill emergencies. PPS personnel have in-depth knowledge of the federal government's PREP exercise program, and can assist with any type of exercise ranging from Spill Management Team (SMT) Tabletop exercises to large scale, multi agency Industry-Led Area exercises.

Rates for PPS' services:

Training and Exercises

Personnel:

In-Office: \$850.00 per day

On Site: \$1200.00 per day

Response

Personnel deployed: \$900.00 per day

Standard Equipment package: \$615.00 per day

3 – computers 2 - color printers

1 - poster printer 1 – LSD projector

1 – Digital camera Admin Kit

Response software (ICS forms, mapping, etc.)

Hubs & wireless networking equipment

All charges will be directly invoiced to the organization using PPS' services. The daily rates listed are effective for the period of 1/1/03 to 1/1/04. These daily rates do not reflect actual expenses, or material costs associated with the conduct of training, exercises, or actual response.

EMERGENCY RESPONSE RESOURCE SHEET**RESEARCH PLANNING, INC. (RPI) - EXTERNAL**

DESCRIPTION: Research Planning, Inc. (RPI) provides emergency spill response expertise in four areas: 1) identifying and prioritizing sensitive resources for protection; 2) selecting and obtaining approval for oil-spill treating agents (e.g., dispersants, burning, shoreline cleaning agents); 3) optimizing shoreline cleanup methods; and 4) assessment of impacts or damages to natural resources

HOW TO ACCESS: Contact Jacqueline Michel, Research Planning, Inc. at: Phone **803-256-7322** (24-hour answering service) FAX 803-254-6445, email = jmichel@researchplanning.com, or contact the Emergency Response Staff (see Emergency Response Staff resource sheet), which will in turn contact RPI. Reference the Master Professional Service Agreement dated January 1996 in your service or work order.

ADDITIONAL INFORMATION: RPI also provides a range of non-emergency services associated with oil spill planning, environmental impact studies, environmental assessments, risk assessments, and training.

RPI is the world leader in developing sensitivity maps and digital databases on sensitive natural resources for oil spill planning. They can develop simple to complex databases using Geographic Information Systems (GIS) technology for managing and presenting data.

RPI can prepare ecological risk assessments and environmental impact studies of oil exploration, development, and transportation operations overseas. They have expertise in marine and terrestrial ecology, fisheries, geology, coastal geomorphology, water quality, and socio-economics. They integrate Global Positioning Systems (GPS) methods into field studies to improve data quality and use in spatial databases. They have the ability for collection of nearly any type of complex field data that requires a spatial location, including ecological surveys, environmental or chemical sampling, ground-truthing of aerial or satellite imagery, or natural resource inventories. The system is also ideal for situations where the rapid collection and analysis of spatial data are essential, such as emergency spill response. They can integrate instruments with a digital output–barcode scanners, water quality instruments, thermometers, or digital cameras—with GPS units to simultaneously collect and store multiple types of data.

EMERGENCY RESPONSE RESOURCE SHEET

RPI offers a range of training courses on spill planning and response. The courses emphasis technical and environmental aspects of spills, such as decision-making for dispersant use, and conditions where burning of oiled wetlands is recommended.

The Master Professional Service Agreement allows for a Chevron operating company, subsidiary, or affiliate to retain RPI's services for oil and hazardous material spill preparedness and response consulting. Charge will be invoiced directly to the organizations that use their services.

EMERGENCY RESPONSE RESOURCE SHEET**SECURITY FUNCTIONAL TEAM - INTERNAL**

DESCRIPTION: The Security Functional Team can provide security services to Chevron Companies during and emergency. Functional Team members can assume the role of Security Unit Leader (or other security roles) in the Incident Command System (ICS).

The Security FT can provide specific assistance, as needed to:

- Protect senior management personnel who may be present
- Protect response personnel
- Establish and maintain liaison with public law enforcement authorities
- Conduct or manage investigations as requested
- Manage contract security personnel as required
- Advise the Incident Commander, Sr. Management and others on security issues.
- Counsel the Facilities FT with regard to the operation of security guard and access control of the Incident Command Center and operations in the field
- Counsel other FT members on any security related matters

HOW TO ACCESS: In the event of an incident or crisis, which results in the activation of Security staff personnel, notification should be made to the Manager, Global Security, and to the Security FT Coordinator. When a person is notified to respond to the incident location, the request shall be given top priority.

ADDITIONAL INFORMATION: [Global Security Website](#), [Security FT Plan](#)

EMERGENCY RESPONSE RESOURCE SHEET**THE MARINE MAMMAL CENTER (TMMC) - EXTERNAL**

DESCRIPTION: The Marine Mammal Center (TMMC) is a world renowned private, non-profit institution (located in Marin County, California) licensed by the National Marine Fisheries Service to rescue and rehabilitate injured or oiled marine mammals. The Marine Mammal Center can dispatch a team of professionals worldwide for the capture and care of injured animals.

**HOW TO
ACCESS:**

To activate call their 24-hour number: **415-289-7325**. The incident will be referred to TMMC's **On-Call** Stranding Coordinator. They will contact the spiller to confirm activation of center personnel.

Upon arrival at the scene, TMMC will immediately consult with Chevron and government officials to determine priorities, identify problem areas, and establish a response plan.

TMMC will also enlist our aid to identify an appropriate rehabilitation facility. Options include transporting all affected animals to TMMC's facility or establishing and equipping an on-scene emergency facility. TMMC will also provide medical and rehabilitative care for all oiled marine mammals delivered to the facility, and **will** provide training for volunteers in safety, animal handling and care.

**ADDITIONAL
INFORMATION:**

For spills in Northern California (San Luis Obispo to the Oregon border) the Center **may be able to** mobilize 1-2 veterinarians and 50-100 volunteers within 2 to 4 hours of the incident. TMMC is permitted to operate as far north as the Oregon border, however, The North Coast Marine Mammal Center actually covers Humboldt and Del Norte Counties.

EMERGENCY RESPONSE RESOURCE SHEET**THE O'BRIEN'S GROUP - EXTERNAL**

DESCRIPTION: The O'Brien's Group offers a broad array of consulting services that include ICS training, exercise facilitation and evaluation, client-specific oil spill schools, 8-hour and 24-hour HAZWOPER refresher training, plan writing, plan review and plan management, and client-specific specialized emergency response training. The O'Brien's Group also is available 24/7 to respond to virtually any emergency worldwide – including oil spills, fires, industrial accidents, hazardous material releases or natural disasters. The Master Consulting Services Agreement allows for any Chevron operating company, subsidiary, or affiliate to retain “Services” by executing a Statement of Work found in the link below.

**HOW TO
ACCESS:**

For emergencies, contact The O’Brien’s Group directly at:

24-hour telephone number: **(985)-781-0804**

FAX: **(985)-781-0580**

or contact the Corporate Emergency Response Staff (see Emergency Response Staff resource sheet), which will in turn contact The O’Brien’s Group. Identify yourself (name, company, and phone number), state that you have an emergency. Provide the details of the emergency and request assistance. Also provide the location where assistance is needed and the name and phone number of the Chevron contact person at the scene. Reference Master Consulting Services Agreement number 99016309 dated August 1, 2004.

For non-emergency consulting “Services”, contact The O’Brien’s Group at:

(714) 577-2110 Office **(714) 577 2118 Fax**

**ADDITIONAL
INFORMATION:**

Use the following link for a copy of the Master Consulting Services Agreement and the Statement of Work used for obtaining “Services” under the Agreement.

EMERGENCY RESPONSE RESOURCE SHEET**THE RESPONSE GROUP - EXTERNAL**

DESCRIPTION: The Response Group offers emergency response pre-planning and support solutions to the domestic and international petroleum industry. They currently service over thirty major oil and gas companies. Their goal is to provide the finest service to their clients utilizing skilled personnel and the latest innovations in technology. Through close personal relations, attention to detail, and capitalizing on years of experience and leadership in the industry, the Response Group can provide you with effective emergency response solutions.

**HOW TO
ACCESS:**

Call Roy Barrett – Project Manager:
Email: rbarrett@responsegroupinc.com
Mobile Phone: (b) (6)

**ADDITIONAL
INFORMATION:**

Services:

Pre-Planning, Response & Mapping

- Inland & Shoreline Tactical Response Guides
- Emergency Response & Drill Trajectory Analysis
- Inland & Shoreline Tactical Response Guides
- Incident Management Team Support regarding trajectories, mapping & IAP software support
- Onshore & Offshore Mapping Support including Facility Maps, Pipeline Maps, Platform Maps, Spill Response Maps, etc.
- Offshore & Onshore Worst Case Discharge Response Guides
- Inland & Offshore DOT IMP Plan Mapping Support

Software Support

- IAP Software 3.X Crisis Management Support & Software Upgrades
- IAP Software 3.X Response Equipment Quarterly Updates
- Fact Sheet 1.0 Software
- Custom Database & Software Application Development

Other Services

- Custom Company Specific ICS Guides
- Pipeline GPS Services

EMERGENCY RESPONSE RESOURCE SHEET**TRI-STATE BIRD RESCUE & RESEARCH, INC. - EXTERNAL**

DESCRIPTION: Tri-State Bird Rescue & Research specializes in the rescue and rehabilitation of oiled wildlife. During an oil spill response Tri-State can establish and operate rehabilitative facilities, provide medical and rehabilitative care for affected animals, train volunteers, and establish field protocols. Tri-State will respond to oil spills worldwide.

**HOW TO
ACCESS:**

Call Tri-State Bird Rescue & Research, Inc. at their 24-hour telephone pager numbers:

Eileen Gilbert	800-710-0695 (pager)
Dr. Heidi Stout	800-710-0696 (pager)

If your call is not returned try the Main Office number:
302-737-7241 (Tri-State Bird Rescue & Research, Inc.)

Be prepared to provide the following information: name, affiliation, position, responsibility regarding spill, telephone number during spill response, product spilled, time/date, amount, spilled if known, location, habitat, wildlife involvement, government agencies notified/involved and current wildlife rescue and rehabilitation plans. Caller will also need to initiate contract negotiations.

Alternatively contact the Emergency Response Staff (see Emergency Response Staff resource sheet), which will in turn contact Tri-State.

**ADDITIONAL
INFORMATION:**

Charges for their services are generally "at cost" with no mark-up for overhead or profit.

Tri-State requests that they be contracted within the minimum amount of time possible to prepare for an on-scene bird rescue, usually 12-48 hours following the spill. Tri-State will immediately send a Response Team to assess the spill situation and if necessary mobilize a full Response team.

Tri-State offers pre-spill training and contingency planning services. They also maintain a full-time bird hospital/research facility in Newark, Delaware.

EMERGENCY RESPONSE RESOURCE SHEET**UNEP WORLD CONSERVATION MONITORING CENTRE (UNEP-WCMC) -
EXTERNAL**

DESCRIPTION: The UNEP World Conservation Monitoring Centre is the biodiversity assessment and policy implementation arm of the United Nations Environment Program (UNEP), the world's foremost intergovernmental environmental organization. UNEP-WCMC aims to help decision-makers recognize the value of biodiversity to people everywhere, and to apply this knowledge to all that they do. The Center's challenge is to transform complex data into policy-relevant information, to build tools and systems for analysis and integration, and to support the needs of nations and the international community as they engage in joint program of action.

**HOW TO
ACCESS:****UNEP-WCMC:**

Information Enquires Tel: + 44 (0) 1223 277722

Main Switchboard Tel: + 44 (0) 1223 277314

Fax: + 44 (0) 1223 277136

E-Mail: info@unep-wcmc.orgInternet: <http://www.unep-wcmc.org>

Information Office

UNEP World Conservation Monitoring Center (UNEP-WCMC)

219 Huntington Road

Cambridge, CB3 0DL, UK

The Centre is open Monday – Friday from 8.30 AM – 5.30 PM (GMT & BST). To reach WCMC outside of regular business hours, contact the Emergency Response Staff (see Emergency Response Staff resource information required in as much detail as possible) for assistance. Identify the area of interest and the type of

**ADDITIONAL
INFORMATION:**

UNEP-WCMC, based in Cambridge, UK Became an integral part of the UN Family in July 2000. UNEP-WCMC maintains a worldwide GIS database, the Bio-diversity Map Library relating to marine and coastal environments and their conservation.

Maps, databases and reports are available for most areas of the world, documenting important local features. The Bio Diversity Map Library is digital information, including maps as graphics files that can be produced within minutes of incident notification and dispatched via communications networks showing the important features of biodiversity that are under threat.

Information is of varying detail depending on the geographical area requested, with the tropical climates containing a higher degree. WCMC can also assist in locating information on international conservation agreements and programs.

EMERGENCY RESPONSE RESOURCE SHEET

WORLDWIDE EMERGENCY RESPONSE TEAM - INTERNAL

DESCRIPTION:	<p>Worldwide Emergency Response Team (WWERT) members are on-call to fill and provide backup for key spill response and cleanup management positions. The team is a select group of about 30 experienced and highly trained individuals from the spill response organizations of the various operating companies.</p> <p>Operating companies may activate one or as many people they feel they need for the response. When activated, team members will report to and work directly for the operating company handling the incident.</p>
HOW TO ACCESS:	<p>To activate WWERT members, contact the Corporate Emergency Response Staff On-Duty Person by calling CEIC at 1-510-231-0623 or 1-800-231-0623.</p> <p>Team members are preauthorized to respond to a call from any operating company and are prepared to arrive at their local commercial airport within six hours of notification.</p>
ADDITIONAL INFORMATION:	<p>All team members are prepared to travel internationally on short notice. They have passports and inoculations recommended by the Medical Staff.</p> <p>The team members are also certified as having at least received Level 5 (Incident Commander), Low Hazard Worker, and Management/Supervisor level HAZWOPER training.</p>

GAS PIPELINES & FACILITIES NORTH AMERICA EMERGENCY OPERATING PLAN
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**GAS PIPELINES & FACILITIES NORTH AMERICA
EMERGENCY OPERATING PLAN**

General portions of this Plan will be considered part of the Emergency Operating Plan for all gas pipelines and company gas facilities.

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GENERAL REQUIREMENTS

Emergency Operating Plan

Purpose

The purpose of this Plan is to provide emergency operating plan procedural guidelines for gas pipelines and facilities and shall be known as the Company Gas Pipelines & Facilities North America Emergency Operating Plan. These emergency procedures are intended to place the primary emphasis on the protection of life.

This Plan is not intended to stand alone, but should be utilized in conjunction with other applicable sections of this Core Plan and relevant State Appendices.

Scope

The scope of this Plan is limited to those emergency situations, as hereinafter are more fully defined, affecting or relating to Company gas pipelines and gas facilities.

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GENERAL INFORMATION

This Emergency Operating Plan provides guidelines to:

- Handle situations to minimize personal injury and property damage
- Handle initial responses to incidents
- Identify and define when an emergency exists
- Evacuate a facility as required
- Establish an Incident Command System
- Notify appropriate personnel and authorities
- Conduct emergency and post emergency operations
- Provide procedures for prompt reporting and investigation of incidents
- Outline procedures to evaluate risk for a facility and surrounding area
- Provide guidelines for integrating this plan with those of the surrounding community
- Operate during severe weather
- Handle bomb threats and other disturbances
- Maintain a trained organization that can mobilize quickly in response to incidents

Lines of Authority

The plan has been developed so that it complies with the spirit and letter of all applicable local, state and federal regulations pertaining to emergency situations, including 29 CFR 1910 Occupational Safety and Health Standards, Department of Transportation 49 CFR 192 Transportation of Natural Gas and Other Gas by Pipeline, Department of Transportation 49 CFR 195 Transportation of Hazardous Liquids by Pipeline, and SARA Title III, Emergency Planning and Community Right-To-Know Act of 1986.

OSHA Standard 29 CFR 1910.120 mandates the use of an incident command system (ICS) during times of emergency defined as “a release of a hazardous substance which cannot be absorbed, neutralized, or otherwise controlled.” This act also mandates that “the Senior Emergency Response Official responding to an emergency shall become the individual in charge of a site-specific Incident Command System (ICS). All emergency responders and their communications shall be coordinated and controlled through the individual in charge of the ICS assisted by the Senior Official present for each employer. There is an Incident Commander in any declared emergency. If an emergency is not declared, it is assumed no hazard to the public or company personnel exists and normal chain-of-command prevails.

During a declared emergency, the Incident Commander carries the designation of “Command” and is in control of the immediate areas of the emergency scene. The boundaries of the immediate area would be dictated by the emergency. Simply defined, it would be all of the area in which a hazard exists to humans.

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The Incident Commander controls all activities directed at response to the emergency. All subordinate positions established under the ICS report to the Incident Commander. Per 29 CFR 1910.120(q), a Safety Officer must be appointed along with an Incident Commander. Initially the Incident Commander may also be the Safety Officer.

Emergency Operations Center

In addition to the Unified Command Post, an Emergency Operations Center may be activated. This is where incident support activities are performed and may be located in two (2) locations:

- Primary Emergency Operations Center located at the Team Office; and
- Secondary Emergency Operations Center- Pipeline Systems Control Center or other location as determined.

The Emergency Operations Center will coordinate all equipment and personnel support needs except for emergency response equipment requests, which are normally handled by the Incident Command Post.

Unified Command

When other agencies with jurisdiction are involved due to the nature of the incident or the kinds of resources required (e.g., a natural gas release, natural gas liquids release, hazardous material spill, fire, etc.), the Incident Commander will ensure that those organizations are involved in developing incident objectives and strategy and kept informed of the Action Plan and its implementation.

Concept of Operations

There are four basic elements of the Emergency Operation Plan to follow. These four elements are prevention, preparedness, response and recovery.

Prevention incorporates all those activities that eliminate or reduce the probability for a disaster occurring onsite;

Preparedness includes all activities necessary to ensure a high degree of readiness so that response to an incident will be swift and effective;

Response includes all measures taken during an incident to prevent the loss of life and to minimize damage to the facility and surrounding areas.

Recovery includes those short and long-term activities that return all systems to a normal state of operation.

Primary responsibility for emergency response involving a facility has been assigned collectively to Company and facility personnel with the local offsite response agencies agreeing to act in a support role. The authority for responding to minor emergency situations has been assigned to the lowest levels of the response organization possible.

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Following an incident, an investigation will take place to formulate new or modify existing prevention activities.

Plan Assumptions and Situations

This plan makes the following assumptions:

- The fire department, police department, civil defense, and other public emergency response organizations will be available to respond to an emergency occurrence and will be able to provide support
- The required training and drills will be conducted and facilities and equipment obtained
- Facility employees will recognize and carry out their roles in an emergency

The situations for which this plan is designed are emergency incidents with a potential for severe consequences. This includes, but may not be limited to, the following:

- Technological hazards, fire, explosion, utility failure, a hazardous materials accident, and onsite materials that might adversely impact the surrounding public under specific conditions
- Natural hazards such as hurricanes, floods, windstorms, tornadoes, winter storm
- Social emergencies such as bomb threats, riots, and sabotage

Job Site Safety Plan

A Company Job Site Safety Plan (Section 7, Core Plan) must be completed as part of the emergency response process.

The Incident Commander will ensure completion of the Company Job Site Safety Plan. The Incident Commander may delegate the task of completion of the Job site Safety Plan to the Safety Officer. The Safety Officer will administer the Job Site Safety Plan.

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NOTIFICATION PROCEDURES

Response

General

Notifications will be per Section 2 of this Core Plan and per additional notification listed in each State Appendix.

This Section outlines the various concerned departments and individuals that personnel should notify in the event of an emergency. An emergency is any situation demanding immediate corrective action, which involves company facilities or operations and may endanger human life or cause significant loss of property.

Notification of Emergencies

It is imperative to respond quickly to any actual emergency. It is also important to contact the Local Emergency Planning Committees (LEPCs) and Federal, State and Local emergency response organizations (police, fire, ambulance, etc.) as necessary. Contact with the appropriate Local, State, and Federal regulatory agencies is also important.

Follow the Notification Flowchart that is found in Section 2 of this Core Plan.

Do not wait to collect all the information concerning the incident but provide this information to agencies and Company resources as it becomes available.

Note: Notifications must begin immediately after the realization of an incident.

Initial Observation Responsibilities of Company Personnel During an Emergency

Any employee including the Pipeline Systems Control Center Dispatcher receiving a report of or discovering an emergency should attempt to gather and record the following information:

- Any injuries or potential hazards to the public or Company personnel
- Location of the observed phenomenon in relation to recognizable landmarks (both natural and man-made, such as rivers, highways, railroads, etc.)
- Description and time of the observed phenomenon

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- Proximity to public, residential, storage and vacant buildings and the density thereof
 - ◆ If applicable name of the informant, their address, time and phone number where they can be contacted
 - ◆ Direction of prevailing winds from the accident location with respect to residential houses, commercial buildings or public roadways
 - ◆ Indications of any other pipelines and/or other utilities belonging to the area and the name of the operator, if available
 - ◆ Estimate of resources needed to control the Emergency / Incident

First Responder (Company Employee) Initial Notification Responsibilities

Any employee who receives a notification of an incident from an outside party or is the first person to witness an incident will notify:

- Control Center and as applicable, the area control room impacted by the incident
- His/Her supervisor
- Follow the Notification Flowchart in Section 2 of this Core Plan

Note: A record of the time each call was made and the name of the individual notified must be maintained.

Pipeline Systems Control Center - Initial Notifications Responsibilities

Dispatcher Initial Notification Responsibilities

- Upon receiving notification of an incident from an outside party/general public, the Pipeline Systems Control Center Dispatcher and if applicable the impacted area Control Room Operator should follow the Notification Flowchart found in Section 2 of this Core Plan.
- Upon receiving notification of an incident from Company employee, the Pipeline Systems Control Center Operator should follow the Notification Flowchart found in Section 2 of this Core Plan.

Note: A record of the time each call was made and the individual notified must be maintained.

Federal DOT and State Pipeline Safety Incidents

General

Gather all information concerning an emergency incident, and then determine whether that incident should be reported to the Local, State, or Federal Agencies having jurisdiction over the pipelines. Immediate telephonic notifications of incidents shall be made to the Local, State and Federal Agencies (when applicable). Telephonic notifications must be made at the earliest practical moment following the discovery of an incident but within the time limits set by the different agencies.

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Local Emergency Planning Committee (LEPC)

Along with other Local, State and Federal Agencies, the appropriate LEPC should be informed of any incident that could involve the community or attract attention of the community or news media. If an affect will be felt in any of the surrounding communities, be prepared to advise of the need for evacuation when making the report. Notification to LEPCs should be made for any incident of smoking that lasts for more than five minutes, or any odor or noise that could be detected outside the facility. Informing the LEPC should be considered if the wind and weather conditions are such that hazardous exposure could occur.

State Emergency Response Commission (SERC)

Notification is required if the release is either in excess of the reportable quantities (RQ) of materials on the CERCLA list or the list of extremely hazardous substances or if the roadway is blocked. The LEPC, SERC & National Response Center (NRC), requests verbal notification within 1 hour of the incident. Written follow-up should be made within 5 working days.

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Emergency Communication

General

Effective communications is one of the keys to effective emergency response. The ability of the various emergency organizations to adequately respond, coordinate, report, and make requests depends on effective communication with other groups.

Land line telephones, mobile telephones, two-way radios and pagers will also be used during all emergencies except for bomb threats (also see Incident Response). Key people can be reached by mobile telephones and pagers at all times. For actual phone numbers, see Emergency Notifications and Communications Rosters contained in the Site Specific Sections of this Plan.

Requirements

When a telephone system is designated as an emergency communication system, the following are required:

- At least one designated telephone instrument must be capable of continuous dial access directly to the telephone network or to the public telephone network or to another similarly manned location (station manned at least five hours a day, five days a week);
- A designated telephone must be in a continuously accessible location considered to be safe during a potential emergency situation;
- The designated telephone or telephone system must have a power source, with at least eight hours reserve, which will not become inoperable during a localized emergency situation. A large percentage of telephone systems furnished by local telephone companies do not require local power except for external bells, horns, or indicator lamps; and
- At locations where telephone systems do not remain fully operational during power loss situations, a separate telephone instrument, powered by telephone line voltage, must be installed.

Procedure

Company owned and operated facilities have provided for communication among the following groups:

- Emergency Operations and Incident Command Post;
- Emergency Operations Center and response teams;
- Emergency Operations Center and all off-site agencies;
- Emergency Operations Center and support personnel, including press/public relations and technical support; and
- On-site emergency response teams and off-site emergency response teams.

In an emergency situation, Personnel use landline telephones, mobile telephones, pagers and/or 2-way radios.

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Responsibility for Procedure

The responsibility for administration belongs to the Team Leader.

A record of scheduled and documented tests of the communications facilities using the Company computer maintenance scheduling system.

Emergency Communications Training Program

All new employees should be made aware of the emergency phone lists and the emergency operations center. These lists should be posted in manned stations, and tests of the emergency management should be regularly conducted as well as documented and recorded.

Emergency Equipment

General

Responders should be careful to protect personnel, vehicles, and other equipment during an incident. Protection of personnel from toxic exposures to hazardous substances involves wearing proper chemical protective clothing and respiratory equipment. Responders should stay away from potential fires or explosions. A rest and rehabilitation area where responders can cool off should be established. Heat stress can be a major problem. In situations where decontamination of protective clothing is required, the rest and rehabilitation area can be incorporated in the decontamination line.

Protection of personnel, equipment, and vehicles also involves approaching the danger area from upwind or an angle other than downwind. If response personnel can only approach the danger area from downwind, they will be at a tremendous disadvantage and will have to place themselves and their vehicles much further back. Generally, vehicles should be parked at a safe distance away from the danger area with the engines shut off.

Fire-Fighting Equipment

Hand portable fire extinguishers are located in all operator vehicles and in designated facility areas.

All company owned fire equipment will be maintained and tested in accordance with established company procedures so that it will be ready for service at all times. All personnel will be trained in the use of personal protective equipment and fire fighting procedures in order to control any fires to the maximum extent possible with the equipment available.

Local fire departments may be called in when the emergency requires. Outside fire organizations should always be aided by Company personnel who have expertise in the location and probable cause and effect of the fire. It is essential to provide guidance to ensure that non-Company people do not enter an area where they may be trapped by fire or where a pipe rupture could occur.

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Personal Protective Equipment

All employees working in and around hazardous operations must be instructed in the hazards of their respective jobs and in the personal protective equipment (PPE) designed to protect against these hazards. Employees are to train in the selection, use, and limitations of PPE.

The Company must provide necessary personal protective equipment for eyes, face, head, and extremities. This equipment includes protective clothing, respiratory devices, and protective shields and barriers. These devices will be used and maintained in a sanitary and reliable condition. Hazards of process or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in the function of any part of the body through absorption, inhalation, or physical contact will be mitigated by using personal protective equipment.

All personal protective equipment used by employees must be of safe design and construction for the work to be performed and must be properly maintained to retain its original effectiveness provided for their use.

Using Personal Protective Equipment

Proper use of personal protective equipment by all employees is defined in the Company Procedures which covers equipment such as hard hats, safety glasses, footwear, clothing and respiratory protection pertinent to specific jobs or tasks. This equipment is specific in preventing personnel from exposures through absorption, inhalation, and physical contact. Also see Training and Drills in this Plan.

Reusable and Disposable Personal Equipment

As required, safety equipment for the protection of employees is available. This equipment includes but is not limited to:

- Protective Clothing (including Nomex coveralls);
- Respiratory Protection (SCBA, AP);
- Splash goggles;
- Safety Glasses;
- Full-face shields;
- Hard hats;
- Chemical resistant gloves; and
- Hearing Protection.

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General Non-Personal Emergency Equipment List

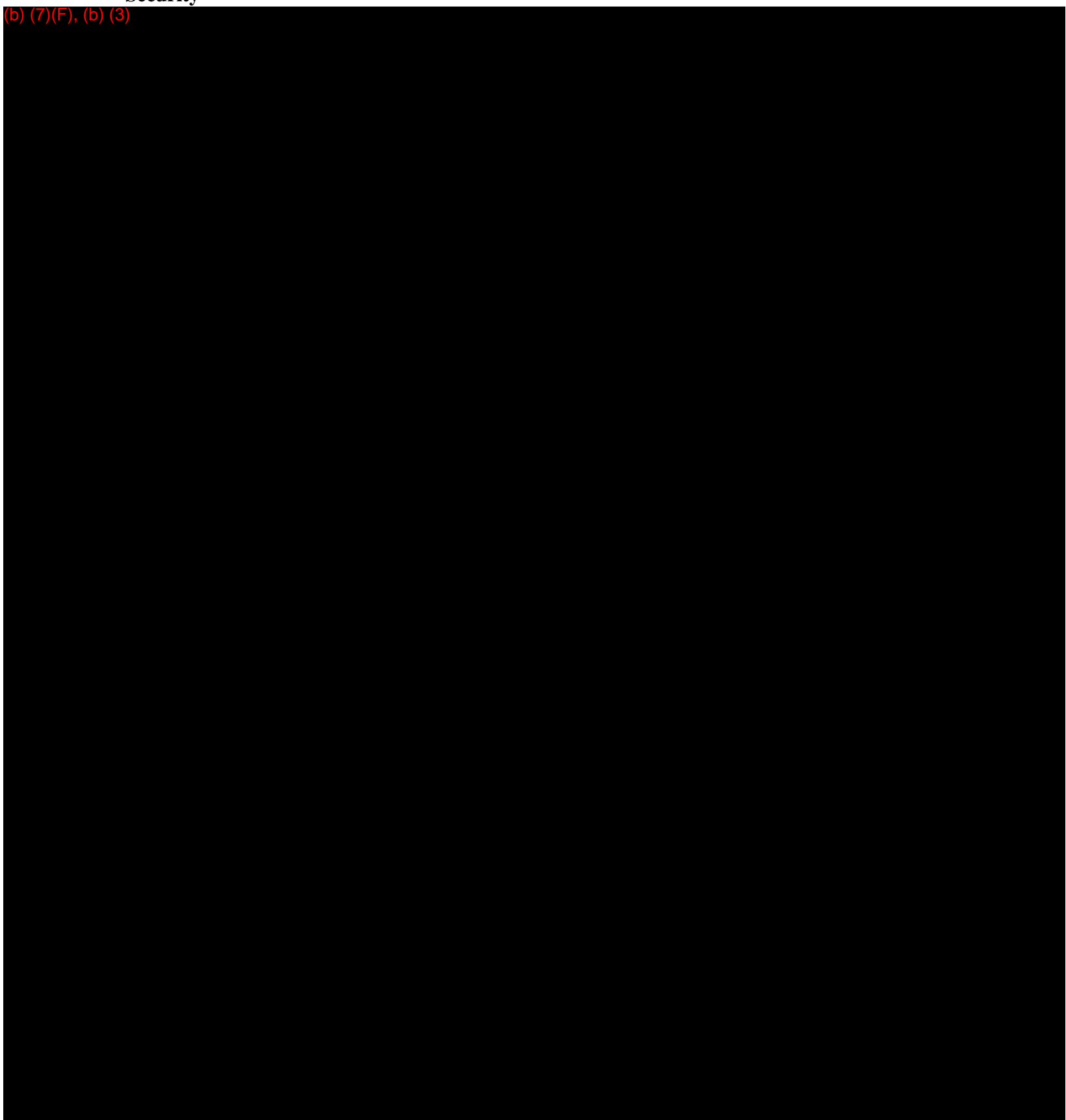
The following list of equipment is not intended to be inclusive of all equipment that might be needed to deal with any emergency, nor is it intended to be the minimum acceptable list. It may be impractical for some facility to supply large or specialized items (e.g., bulldozers or hot-tapping equipment).

Equipment	Amount	Location
Portable Gas Detectors		
Pipeline Locator		
Rope, Signs, Cones, etc. (To mark hot zones)		
Rescue Lines		
Potable Water		
Shovels and Rakes		
Ladders		
Miscellaneous Hand Tools		
Windsock		
Communication Devices (Two-way Radios, Walkie-Talkies, Cellular Phones, CB Radios, etc.)		
Sorbent Materials		
Disposal Bags and Containers for used Sorbent Materials		
Boat(s)		
Fire Extinguishing Systems (Foam, Dry Chemical, etc.)		

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Security

(b) (7)(F), (b) (3)



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The Incident Commander shall designate three major zones around the affected area. These control zones serve to reduce the contamination of personnel and equipment by controlling and directing the operations at the incident. Personnel should move through the access control points to maintain control of the site and to prevent spread of contamination across zones. The zones are:

The Exclusion or Hot Zone

This is the area with the highest contamination or danger. Access into this area may be permitted only with the use of the proper level of PPE equipment and the use of a buddy system. The area of the exclusion zone shall extend far enough to prevent adverse effects from hazardous materials. Only those persons necessary to control the incident or those necessary to rescue others may enter this area.

The Contamination Reduction or Warm Zone

This is an area of limited access. Because of the proximity to the exclusion zone and the possibility of hazardous materials in the area, access will be limited to:

- The decontamination station operators; and
- Necessary emergency response personnel.

The purpose of this zone is to reduce the likelihood of contaminating the safe area. This is a buffer area. Appropriate personal protective equipment is required in this area, as determined by the Incident Commander.

The decontamination zone shall be located in this area. There shall be at least two persons (one at each end of the decontamination zone) to control access through this area. All access through this area shall be through the decontamination zone. This allows for control of persons who enter the area and to prevent further contamination.

The Support or Cold Zone

This is considered a safe area. The Incident Command Post, Medical Station, and equipment and supplies shall be located in this area. It shall be upwind from the contamination zone, and as far away as possible and practical.

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How to Identify Zones

The Safety Officer should assist in defining the zones based on results of sampling, monitoring, and evaluation of the incident. As conditions change, it may be necessary to re-establish zones. Therefore, zone boundary monitoring must be ongoing.

The criteria for re-establishing zone boundaries will depend upon:

- Visual survey;
- Locations of other hazardous substances, drainage, etc;
- Data on combustible gases and toxic materials;
- Hazardous Liquids vapor clouds;
- The ability to access the contaminated area;
- Areas necessary for site operations; and
- Meteorological conditions.

Securing the Zones

Once the necessary zones have been determined, they must be clearly marked. This may be done using hazard tape, rope, warning cones, etc. Personnel must then be placed around the contamination reduction zone and within sight of the exclusion zone. These persons shall be designated by the Incident Commander. The Incident Commander may delegate this function to the Safety Officer. It shall be their responsibility to deny access into the restricted areas. Access into these areas must be through the decontamination zone only. The Incident Commander may request assistance from trained contractor personnel.

Remember: In the event of an emergency, securing the area must be done quickly and efficiently. Prevention of injury to employees and the public is imperative.

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Evacuation

General

If evacuation is determined to be the best way to protect the health and safety of affected persons, responders must be sure that entry into the evacuated area is restricted. The Evacuation Designee is responsible for getting people out of the danger area and maintaining security from outside the perimeter. To a large degree, successful evacuations are based upon having pre-planned evacuation methods.

If evacuation is needed, it should be implemented as quickly as possible to allow for expected delays associated with people attempting to leave an area. The Evacuation Designee must be certain that the persons to be evacuated are not sent from an area of lesser danger to an area of greater danger.

Employee and Contractor Assembly Areas

- Due to changing wind conditions and the possibility of a product release, it is not possible to designate a single assembly point. However, moving upwind of the problem source should be satisfactory for most situations.
- At the designated assembly point the Contractor Evacuation Designee and Company Evacuation Designee shall take a head count of their personnel and report to the Evacuation Designee.
- The Evacuation Designee is to report the total head count to the Command Post by radio, telephone, or in person.

Contractor Personnel Actions

- All contractor personnel shall stop work, shut off all spark-producing tools and equipment, and exit the work area.
- Observe the wind direction and exit the area cross wind to the nearest evacuation route.
- Look around as you exit to see if there are people acting as if they are not aware of the evacuation. Do not go towards them, unless your exit path takes you there. Do not attempt to assist anyone who may be down, unless they are in your exit path. Make note of these conditions and report them to your supervisor in the assembly area.
- Follow evacuation routes determined in the pre-job meeting or those listed in this Plan and make your way upwind of the problem area to the designated assembly point.
- The appointed Contractor Evacuation Designee shall conduct an evacuation head count using the contractor evacuation checklist provided in this Section and also contained under the Forms and Checklist Section of this Plan. The Contractor Evacuation Designee shall be appointed by the Company Evacuation Designee.

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Safe Havens - Places of Refuge

If a product release or other Incident occurs in an area where buildings exist and personnel are unable to proceed away from the site to the assembly area, get inside, shut off heating and air-conditioning systems, and wait for instructions from the Incident Command Post and follow the instructions listed below.

An alternative to evacuation in certain situations is staying inside, or sheltering-in-place. Sheltering-in-place is generally a good action to take if there is a one-time release, short duration release, or a very small release of hazardous materials in the air. Sheltering-in-place sometimes involves moving people to an area of lesser danger within a building. Generally, determining whether sheltering-in-place is an appropriate alternative depends on the type of incident and the material involved. When responders determine that shelter-in-place is appropriate, people inside buildings should be advised to:

- Close all doors and windows;
- Turn off heating, cooling or ventilation systems; and
- Try to establish communication with the control room.
- Minimize the opening of doors to minimize the amount of contaminants entering the building.

Note: Only open doors to allow entry of individuals seeking refuge.

Responsibilities for Evacuation

The Evacuation Designee is responsible for evacuating and accounting for all personnel under their direction.

The Evacuation Designee will ensure all personnel have evacuated.

Each Company Employee and Contractor Employee is responsible for knowing their assembly area and evacuation route.

Visitors and guests are the responsibility of their Company host. Visitors and guests will remain with their host until either the “all clear” signal or until their host has instructed them either to go to an assembly area or leave the facility. In case of the Company host being required to respond to the emergency scene or emergency command center, the host will quickly designate another Company Employee to be responsible for the visitor or guest. See the evacuation route maps contained in the Site Specific Sections of this Plan.

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Evacuation and Transportation of Injured Persons

Injured personnel should be transported to the hospital, if necessary, by ambulance.

Rescue

Rescue operations may be necessary due to the severity of an incident. Use the following guidelines for rescue operations:

- **“Endangered persons”** are those individuals directly involved in the incident who are in immediate jeopardy and who because of injury may not be able to leave the area of danger. These people will require rescue.
- **“Affected persons”** are those whose health and safety are threatened. They include people adjacent to the incident as well as those that are subject to potential exposure to materials released in the air or surface water. It may be necessary for responders to evacuate or rescue those people who may be affected.
- **“Trapped or injured persons”** are those individuals who are unable to evacuate without the aid of a rescuer.

If rescue of trapped or injured persons is attempted, responders must be certain that they do not take any undue risks. Responders should always determine and evaluate the risk to themselves before a rescue of a victim is attempted.

After determining that a rescue is appropriate, responders should be certain that no first aid is given in the danger area. Rather, the rescued victim should be removed from the danger area as quickly as possible. This will ensure that the rescuers and the victim are not subjected further to the hazards associated with hazardous materials.

Note: Rescues shall be conducted by trained personnel only!

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Emergency Evacuation Checklist

This evacuation list is to be filled out by the Evacuation Designee after all personnel are accounted for during emergency procedures. The Evacuation Designee will continue to update this emergency evacuation checklist as the situation changes. If all individuals cannot be accounted for the Evacuation Designee shall notify the Incident Commander as soon as possible.

Company Employee	Evacuated and Accounted For	Remaining Behind to Conduct Critical Activities

Contract Employee	Evacuated and Accounted For	Remaining Behind to Conduct Critical Activities

Evacuation Designee Name: _____ Date: _____

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Facility Shutdown - General

Purpose

The objective of shutdown procedures is to shut down the facility as quickly as possible and not expose personnel to danger. Any of the following constitutes an emergency shutdown:

- Fire or explosion;
- Major equipment failure;
- Hurricane, tornado, floods, or other natural disaster; and
- Civil disorder involving facility intrusion by outsiders.

Emergency Shutdown Procedure

- Make sure to turn off all instrument detectors. This will prevent a strong current surge when the main breakers are re-energized;
- Turn off all electrical equipment individually;
- Shut off the compressed gas cylinder block valves;
- Shut off each compressed gas cylinder in the gas rack and disconnect it from the manifold system. Replace the safety caps on each cylinder;
- Inspect the Compressed Gas Cylinder area to be sure that all cylinders are secured by safety chains;
- Shut off all utilities at the service entrance to the building; and
- De-energize the electrical circuits by disconnecting the main circuit breaker for each switch panel.

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Gas Detected Inside or Near a Building

General

In the case of gas detected or suspected inside or near a building, all Company personnel shall take such action as necessary to protect the public first and then the facilities. On-site judgment is required in order to react properly to each individual situation.

Consideration should be immediately given to getting all people out of any building involved if gas is detected inside the building.

When approaching any building that contains natural gas facilities or that may contain escaped gas, an employee should always look and listen for any signs of escaped gas. Under no circumstances should an employee immediately open a building door, if escaped gas is detected.

Procedure

If gas is detected near a building, then all people inside should be asked to extinguish all open flames, to open windows and doors and then get outside immediately. A determination should immediately be made as to severity of the leak and the potential and immediate danger involved.

If leaking gas is detected in a building, assess the nature of the problem, the potential danger to life or property and the actions required to bring the situation under control. Under no circumstances should an employee enter a building with audible leaking gas, until backup assistance arrives, and the environment has been tested and determined to be safe for entry. Actions taken will depend on the employee's assessment of the situation. General guidelines for responding to this type of emergency are as follows.

- Do not open any doors until explosion limits have been determined.
- Return to vehicle and reposition upwind, preferably blocking access to the location by others.
- If you need assistance with requesting local emergency/public safety agencies then contact the Team office or your supervisor and request assistance. The Team office or your supervisor should contact public safety agencies and utilities as applicable. Otherwise, contact local emergency/public safety agencies, as you deem necessary.
 - ◆ Describe the condition;
 - ◆ Give the location;
 - ◆ Give the wind direction;
 - ◆ Have them bring a portable combustible gas indicator/detector;
- Evacuate people from adjacent buildings if they are close enough to be injured in an explosion or fire;
- Shut off electrical power to building and eliminate other potential ignition sources;

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- Isolate the building from gas sources if possible. Close service line valves on buildings receiving domestic gas service. On measurement buildings, close inlet and outlet block valves and open blowdown valves. As in any suspected or actual emergency, the Control Center Dispatcher and Team Leader should be notified just as soon as notice is received or the condition detected. Corrective actions and valve movement required should be done in consultation with the Pipeline Systems Control Center Dispatcher in all cases except where immediate action is required by the Incident Commander due to a dangerous or hazardous situation.
- After gas sources are shut off, proceed to the building with a portable combustible gas indicator/detector, and check door seams for an explosive mixture. If an explosive mixture is not found, open the door and insert gas detector in building. If the gas concentration is within safe limits, enter and ventilate the building and determine the cause of the detected gas.
- Once the cause of the detected gas has been determined, contact the appropriate personnel to investigate, repair, and return everything to service.

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Natural Gas or Natural Gas Liquids Escaping From a Pipeline Facility

Gas or liquids escaping from a pipeline facility must be brought under control as quickly as possible. Leaks, ruptures, overflow of tanks, etc may cause these conditions. Such conditions must be reported to the Dispatcher or the Impacted Area Control Room Operator as well as the Team Leader. The Incident Commander will appraise the situation and direct such corrective action as necessary to bring the conditions under control. Any valve movements will be in consultation with the Control Center or Impacted Area Control Room Operator, in all cases except where immediate action is required by the Incident Commander due to a dangerous or hazardous situation.

Caution should be exercised as flammable vapors may accumulate in enclosed spaces and volatile liquids in mist form may accumulate on clothing or other objects. In either case ignition can cause secondary accidents. Even if there is not fire present, water spray can be useful in mitigating the hazards encountered during rescue and containment.

In the event liquids have migrated beyond dikes or Company Property, and immediate effort must be made to contain, retrieve or otherwise avoid contamination of the adjacent lands or waterways. Some spills may require immediate notification to regulatory agencies whose jurisdiction is involved.

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Explosion Near or Directly Involving a Pipeline Facility

General

If an explosion has occurred, particularly where no fire has resulted, be especially alert to the possibility that additional explosions could occur. Keep at a safe distance. Secure the area and restrict access to trained personnel only.

Procedure

Immediately upon the realization of an explosion involving a pipeline facility, the First Responder shall notify the Control Center Dispatcher or Impacted Area Control Room Operator and Team Leader. Once said notifications are made, the Incident Commander shall proceed to the incident scene and evaluate the situation. The action required depends upon whether the explosion actually involved a Company pipeline facility or was near or adjacent to pipeline facilities and the seriousness of the situation. Should there be a serious explosion on a pipeline facility, the Incident Commander will direct work crews as needed to the incident location. Appropriate outside Emergency Response organizations such as fire and ambulance should be dispatched to the location as quickly as possible.

Notifications will be made per the Notification Flowchart in Section 2 of this Core Plan.

The Incident Commander will evaluate the situation and inform the Control Center Dispatcher or Impacted Area Control Room Operator accordingly. Corrective actions and valve movements required should be in consultation with the Dispatcher or Control Room Operator in all cases except where immediate action is deemed necessary by the Incident Commander due to a dangerous or hazardous situation.

Where warranted, the Incident Commander will then cause the isolation of the section of pipeline by way of valves on either side of the explosion and open the proper blow down valves, if required for gas blow down or liquid flaring (this will depend on how close the blow down valves are to the actual site). In the event the explosion was too close to a blow down valve for safe operation, then a blow down valve farther away from the actual explosion would be used. In the event of a fire, following the explosion then in addition, the procedure, Fire Located Near or Directly Involving a Pipeline Facility, should be followed. Local fire and police officials should be contacted as determined by the Incident Commander.

In the event that there is a potential or actual fire spread to areas adjacent to Company Facilities, or people are injured and/or spectators are gathering or evacuation of people is needed, the appropriate local ambulance, hospital, fire and police officials should be immediately notified. Company employees should be assigned, if available, to assist local police and fire officials in evacuating personnel from the area by means of barricades or roping off the area or by other means as directed by the officials.

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Fire Located Near or Directly Involving a Pipeline Facility

General

To help ensure public safety, on fires near or involving natural gas or natural gas liquids pipeline facilities, Company personnel will need to continue to practice Unified Decision making and control of the area even though outside fire fighting personnel are en-route or present.

Procedure

Immediately upon the realization of fire near or involving a Company pipeline facility, the First Responder should notify Control Center Dispatcher or the Impacted Area Control Room; and the Team Leader. Once said notifications are made, the Incident Commander shall proceed to the incident scene and evaluate the situation. The seriousness of the fire, whether it be a major or of a minor nature, dictates the actions to be taken. Actions to be taken also depend on whether the fire actually involves our pipeline facilities or is located near or adjacent to Company pipeline facilities. The local fire and police officials should be notified as determined by the Incident Commander. The fire department, police and general public should be instructed to make no attempt to close or open any valves. The operation of Company pipeline facility equipment, including all valves, should be done only by Company personnel or Company authorized contractors.

Notifications will be made per the Notification Flowchart located in Section 2 of this State Appendix.

All employees who are appropriately trained are allowed to fight incipient stage fires. An incipient stage fire is a fire that is in the initial or beginning stage and can be controlled or extinguished by portable fire extinguisher, Class II standpipe, or small hose systems without the need for protective clothing or a breathing apparatus.

The Incident Commander will direct work crews to the designated location, as he/she deems necessary. Local fire departments should be dispatched to the location as quickly as possible.

The Incident Commander will evaluate the situation and inform the Control Center Dispatcher or Impacted Area Control Room Operator immediately. Corrective actions and valve movements required should be done in consultation with the Control Center Dispatcher or Impacted Area Control Room in all cases except where immediate action is deemed necessary by the Incident Commander due to a dangerous or hazardous situation. Further action might involve the isolation of the section of pipeline where the fire occurred by closing main line valves on either side of the fire and opening the appropriate blow down valves for gas blow down or liquid flaring (this would depend on how close the blow down valves are to the actual fires). In case the fire is too close to a blow down valve for safe operation, a blow down valve further away from the actual fire should be opened.

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In the event that fire spreads to areas adjacent to Company pipeline facilities and/or spectators are gathering or evacuation of people is necessary, then the appropriate fire/rescue and law enforcement officials should be immediately notified. Company employees should be assigned if available to assist law enforcement and fire officials in evacuating personnel around the fire by means of barricade or by roping off the area or by other means as directed by outside emergency response officials. If people are injured, appropriate ambulance, hospital, and other emergency services should be notified.

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Fire, General**Outside Assistance**

If, in the opinion of the Incident Commander outside assistance is necessary, then outside aid shall be requested. The following procedures shall be adhered to when calling for assistance:

All Clear Call

If the fire has been controlled after a stand-by or call for assistance has been placed, the Incident Commander should contact the fire department and inform them of the controlled situation. The fire department shall be provided with the following information:

- The name of the person reporting the controlled event;
- An assurance that the fire is under control; and
- A repeated request for clarification that the facility is reporting the situation as "all clear".

Employee Consideration

The following considerations must be taken into account by all employees:

- All actions should be defensive in nature and conducted from outside any danger area;
- At no time will any employee place themselves, or allow themselves to be placed, into a life threatening situation;
- Employees are expected to act only in accordance with their training. It is not the Company's intent to place any employee into a hazardous situation when the employee has not been trained to safely respond to the possible hazards present; and
- The safety of employees and the public takes precedence over all other considerations. Protecting a facility from damage or destruction will always be a secondary consideration.

Extinguishing Fires

All employees who are appropriately trained are allowed to fight incipient stage fires. An incipient stage fire is a fire that is in the initial or beginning stage and can be controlled or extinguished by portable fire extinguishers, Class II standpipe, or small hose systems without the need for protective clothing or a breathing apparatus.

To extinguish burning hazardous materials, the proper extinguishing agent must be used. Although straight water streams are effective for extinguishing high flash point liquids such as kerosene and diesel fuel, water is generally ineffective for extinguishing low flash point liquids such as gasoline. Low flash point liquids may be extinguished with foam or dry chemicals.

When selecting the proper extinguishing agent, response personnel must be sure not to mix incompatible agents. For example, foam and water are incompatible. In some situations, water should be shut off prior to using any foam. If foam and water are used at the same time, the fire may not be extinguished. Moreover, the water may wash the foam away.

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Another example of incompatible agents is foam and some dry chemical extinguishing agents. These agents are effective only when used separately. If response personnel are required to extinguish water reactive materials, dry powder should be used. Generally, a dry powder agent is shoveled onto the material to extinguish the fire. If an extinguisher containing this agent is used, the responder must be careful not to spread the burning material.

Note: Extreme caution should always be taken when using water for fire control. If water reactive chemicals are present, extreme reactions can occur which can escalate the severity of the incident.

Receiving Outside Aid

The Incident Commander shall direct responding outside aid to the emergency scene.

The Evacuation Designee shall be responsible for logging in the fire department name, type of emergency equipment, and the number and names of persons responding who are directed to the fire scene. The Evacuation Designee will also be responsible for signing out responding equipment and personnel as they leave the emergency site.

Removing Ignition Sources

Remove all potential ignition sources to prevent ignition of flammable (explosive) vapors and gases. Removing all ignition sources is usually a very difficult tactic to accomplish. If responders attempt this tactic, they should start downwind and remove all sources of flame, heat, or spark. To protect themselves, responders should continually monitor the area to determine the flammability hazard present. Also, to ensure that all ignition sources are removed, responders will require additional assistance from public utility personnel from the electric and gas companies.

Removing Oxygen Source /Letting Substance Burn

A second tactic that may be used to extinguish ignited materials is to remove the fuel supply. To decrease the hazard, responders should consider closing valves and plugging leaks, and where appropriate, removing the fuel supply from the danger area. This is an appropriate tactic for flammable liquids or gas. Another tactic that may be used to extinguish ignited materials is the removal of the oxygen supply (i.e., smothering the hazardous material). For certain hazardous materials, a fire may be effectively extinguished by smothering the material with foam, sand, or dirt. Finally, responders may extinguish ignited material by letting the substance burn itself out. For example, for fires involving pesticides or poisonous gases, a tactic is to let the substances burn themselves out, making certain that people are evacuated from the area which may be effected by the “smoke” produced by the fire.

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Unauthorized Excavation Near or Exposure of a Buried Pipeline

Any excavation near a Company pipeline facility may pose a serious threat to the facilities. Except for foreign construction being done with our knowledge, permission and authorized representative present, all such activities should be brought to the Team Leaders attention without delay. If such encroachment is approaching a buried pipeline, the excavator should be warned and the location of the pipeline pointed out to him/her. In no case is the excavation allowed to continue within Company rights-of-way without approval from Team Leader. Should such approval be granted, any further excavation must meet Company requirements in order to protect the facilities and a Company representative must be present during the excavation.

In the event of an unexpected exposure or contact with a buried pipeline, all work should cease until the Team Leader or designee can make a thorough examination of the pipeline. Hand digging should be employed to thoroughly expose the suspect area. Scratches, dents and coating damage or pipe should be appraised thoroughly. In cases where the wall thickness has been diminished, the Team Leader will coordinate with Control Center Dispatcher or Impacted Area Control Room Operator a reduction in pressure on that segment of pipeline until an accurate determination of damage can be made. HES should be contacted and given details concerning the damage to the pipeline in order to determine if a "Safety Related Condition" might exist.

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Spills

General

The majority of hazardous substance spills encountered by Company facilities are reasonably easy to contain and clean up. Company employees are instructed to accommodate these spills through their operations and maintenance training programs.

Spill Response

In the event of a spill or release, the following notification procedure should be followed:

- Contact the Control Center and Team Leader;
- Follow the Notification Flowchart located in Section 2 of this Core Plan;
- Outside assistance can be obtained, if necessary, by calling contractors listed in this Core Plan;
- For more information on spill prevention, control, and counter measures (SPCC), see Company Environmental Procedures Manual and Site Specific SPCC Plans not contained in this plan.

Confinement and Containment

The normal strategy for handling small spills and releases can be located in the Core Plan.

Responsibilities

Trained employees must identify the types of hazardous substances present and the hazards associated with a spill, and designate the type of response (normal or emergency) that will be used for control of a specific incident and report findings to the Incident Commander.

According to 29 CFR 1910.12 the Incident Commander must assess all hazardous substances and conditions present before taking action.

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Containing the Hazard

Stopping the Leak

Often, a leaking hazardous substance may be contained by trained personnel by stopping the leak in a pipeline drum, tank, or other container. This can be accomplished by safely closing valves, plugging openings, or uprighting containers.

When dealing with a pressurized storage tank, trained responders should approach the tank from the sides. Most pressurized tanks have hemispherical heads that are welded to the body, or sides, of the tank. There is a higher probability of a failure in the heads, or ends, of the tank versus the side. Approaching a tank from the sides, however, does not provide a guarantee that response personnel will be protected. Extreme caution should be exercised in these situations.

Constructing a Barrier

Another tactic that may be useful is to confine a substance by the construction of barriers (dams, dikes, or channels) to control run-off and to keep the material from being spread over a larger physical area. If a great deal of dirt or sand is used for constructing a containment dam, dike or channel, responders should consider the problems associated with the disposal of the now contaminated dirt and sand.

Handling Spills

Liquids spilled at a facility can be difficult to handle. In most cases, containment may already be in place. For example, most tanks have a berm around their periphery, if required, for confining major leaks. If a transfer line breaks or an accident occurs in transporting or loading a liquid, there will be no “automatic” containment. On concrete, blacktop, or other hard surfaces, berms can be constructed with dirt, sand, absorbents, or urethane foam packs specifically designed for this purpose. If the spill is on the ground, berms can be constructed by simply mounding the soil itself. In many cases, though, it may be more advantageous to “herd” the liquids by ditches, swales, and berms to an existing low point or construct a catch basin. This allows the material to pool and may make cleanup easier.

Primary Tool Kit For Spills

Often a leak may be controlled by simply tightening fittings such as bungs, caps, pipes or flange bolts. A variety of tools may be necessary to accomplish this. A basic tool kit shall be located in the command post or area office. The tool kit should contain, at a minimum, the following items:

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Suggested Primary Tool Kit for Spills

Tool / Material
Brass mallet
18" and 36" pipe wrench
Open end wrench set
Box end wrench set
Slip joint pliers (2 pair)
Common pliers
18" or 24" Flat blade screwdriver with plastic handle
Medium weight ball peen hammer
Pocket knife for carving wooden plugs
8" Vise grip pliers
6" Pry bar or pinch bar
Lock back knife
Portable explosion proof hand light
18" to 36" bolt cutters
Bung wrenches
Diagonal side cutting pliers
Needle nose pliers
Screwdriver set – common
Screwdriver set - cross point
Tin snips
Wire brush with long handle
Hacksaw with quick disconnect for blades
Hacksaw blades
Teflon tape - available in a wide variety of widths and used for wrapping threads on fittings and connections.
Duct tape – used to slow leakage from pipes, fittings, etc. by wrapping tightly around the affected area - also can be used as a gasket with wedges or plugs.
Rubber sheeting (old inner tubes work well) – useful as a gasket material for any type of patch or plug
Assorted sheet metal screws - when backed by flat washers and rubber gaskets, useful for small holes, pinholes and some cracks
Assorted pipe caps – can be used on threaded pipe ends
Bungs – used to secure drums
Assorted automotive clamps - used to secure rubber sheeting over pipe ends, etc.
Assorted threaded pipe plugs – used on internally threaded pipe ends
Flat washers for sheet metal screws

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Hazardous Materials (HAZMAT)

Characteristics of Hazardous Materials

The process of size-up involves both identifying the materials involved and evaluating all of their hazardous characteristics. These hazardous characteristics include:

- Toxicity (whether the material is a poison);
- Corrosiveness (whether the material will eat away or gradually destroy another material);
- Radiation hazards (whether the material emits radiation);
- Etiological hazards (whether the material may potentially cause some type of disease in exposed humans);
- Asphyxiating hazards (whether the material may potentially kill or make unconscious humans or animals by replacing or depleting oxygen);
- Flammable hazards (whether the material may ignite and burn);
- Oxidizing capabilities (whether the material may change after combining with oxygen and become more dangerous);
- Reactive hazards (whether the material may interact with other chemicals yielding an undesired change or reaction);
- Instability (whether the material has a lack of resistance to chemical change - may undergo unwanted and dangerous alterations);
- Explosive hazards (whether the material may explode); and
- Cryogenic hazards (whether the material is very cold).

Type, Condition, and Behavior of Containers

During size-up, response personnel should always consider the type, size, condition and possible behavior of any containers used to store or ship hazardous materials. Behavior of the container involves the manner in which a container may rupture, leak or explode.

Drums and bulk containers in the same general area may contain different or incompatible materials. During an incident that does not initially involve container failure, there may be a potential for container failure. For example, during size-up it may be determined that a container may fail because:

- It is under stress from heat or fire; and/or
- It is under stress from mechanical damage; and/or
- It is under stress from chemical reactions.

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Cooling Containers

One way to reduce the probability of container failure because it is on fire, or near a fire, is cooling the container. This is done by applying large quantities of water to the container. Generally, a minimum of 500 gallons per minute must be applied at the point of flame impingement. If there are several points of flame impingement, large quantities of water are needed in order to apply 500 gallons per minute at each point of flame impingement. Maintaining an adequate water supply may be difficult in areas that do not have a domestic water supply for fighting fires. In such a case the local fire department will be called for assistance.

If an adequate supply of water is available, heavy streams should be applied to the vapor space (the space in the container above the liquid), as well as the point of flame impingement. When the flames are thick and heavy and the relief valve is operating, it is likely that more and more of the product is being released into the environment. As the level of the product in the container goes down, greater vapor space is exposed. This vapor space, a critical area in the tank, is generally the point at which failure of the container will occur. Heavy streams of water must be applied to the vapor space in order to prevent the container from failing.

When a container holding a hazardous product is on fire, or near a fire, responders should also consider whether it may present an undue risk to response personnel manning the cooling streams. If it is determined that the risk is high, unmanned monitors shall be used. The equipment should be set up and then all response personnel shall leave the danger area. If unmanned monitors are used, it may only be necessary to enter the danger area occasionally to check the equipment to ensure that it is operating properly.

Using Stress Barriers

Stress barriers between the fire and containers must be used to prevent container failure. Stress barriers absorb the radiant heat or prevent the container from coming into contact with the flame.

Removing Uninvolved Materials

Another tactic is to remove containers (assuming they are mobile) that have not been affected or are not involved in the fire. This tactic shall be used with extreme caution. For example, in some cases, individual containers, having been exposed to fire, may have stabilizers that are driven away by the heat. In other cases, the chemical in the product itself, once heated, may cause the container to fail. Finally, it may be necessary to cool a container after it is moved. For example, if a hazardous material product remains in a container after it is moved, and the container is moved out of the danger area, but into the sun, pressure inside the container may continue to build up and a catastrophic failure may occur.

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Modifying Conditions

During the process of gathering information, response personnel must consider conditions such as the location, time factors and weather. The conditions must be evaluated in order to determine the most effective and appropriate response tactics. Consider complex street patterns, limited access, lack of water, whether the location of an incident is near a waterway and if so, what spill control measures must be used to prevent a release into the body of water.

Time

As much as possible, response personnel must determine what is the probable or expected condition of the incident that will be encountered on their arrival at the scene. If response time is long, response personnel may have to expedite a preliminary size-up of the incident. If the response time is quick, response personnel may have more time to gather information about the incident and plan the response.

Weather Conditions

The temperature on the outside as well as in the inside of a structure containing materials should be considered because the materials involved in the incident may have differing vapor pressures that are affected by temperatures. Also, wind direction and speed may yield information about possible plume location and/or dispersion rate.

Furthermore, if an air inversion occurs, this may cause vapors from materials to be concentrated or held near the ground, thus potentially exposing the public to a hazardous condition. Air inversions may also inhibit dispersion of vapors. Finally, because some chemicals react adversely with water, precipitation can have an effect on response operations.

Resources and Control Measures

The number of individuals available to respond to a hazardous materials incident will affect the time and extent of the response operation. The fatigue of the response personnel and potential replacements must be factored into the number of available individuals for response. The level of training of the response personnel is important. Response personnel should determine the number of individuals that are prepared through proper training to handle a hazardous materials incident.

Note: Hazardous materials guides published by such groups as the Department Of Transportation (DOT) and National Institute of Occupational Safety and Health (NIOSH) yield information about hazardous materials.

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Strategy

The concept of incident control includes suppressing the source, instituting appropriate and effective measures to limit the various hazards associated with materials from happening; isolating the materials and hazards to the smallest possible physical area, and removing people from harm's way.

Strategy - Priority Factors

The factors that need to be considered in establishing priorities are:

- Immediate rescue or life-saving activities;
- Protection of affected persons;
- Responders' safety;
- Protection of property;
- Protection of the environment;
- Fire or explosions (or potential for);
- Potential for container failure;
- Availability of necessary resources;
- Need for time; and
- Weather conditions.

Strategy – Prevention and Minimizing

A strategy must be developed to prevent, or if the incident has already occurred, minimize the effects of:

- Explosions;
- Fires;
- Releases of chemicals from their containers;
- Toxic hazards from liquids, solids, vapors, or gases;
- Corrosive and reactive hazards;
- Radiation hazards; and
- Biological hazards.

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Strategy - Tactics

In general, the tactics that are employed to prevent or reduce the hazards associated with chemicals are:

- Extinguishing fires and wetting areas;
- Controlled burning or detonation;
- Cooling containers (that heat may cause to explode or ignite);
- Removing materials;
- Plugging, patching, and other methods (containment) to keep materials in their original containers;
- Using dikes, berms, dams, and other techniques to confine spilled materials to the smallest possible physical area; and
- Using various chemical and physical methods, for example, neutralization, absorption, dilution, transfer, dispersion, solidification, and others to minimize hazards.

Rescue

Endangered Persons are those individuals directly involved in the incident who are in immediate jeopardy and who, because of injury, may not be able to leave the area of danger. These people will require rescue.

Note: Only individuals trained in emergency rescue techniques shall conduct emergency rescues.

Affected Persons are those whose health and safety are threatened. They include people adjacent to the incident as well as those that are subject to potential exposure to materials released in the air or surface water. It may be necessary for responders to evacuate those people who may be affected.

If rescue of trapped or injured persons is attempted, responders must be certain that they do not take any undue risks. Responders should always determine and evaluate the risk to themselves before a rescue of a victim is attempted.

After determining that a rescue is appropriate, responders shall be certain that no first aid is given in the danger area. Rather, the rescued victim should be removed from the danger area as quickly as possible. This will ensure that the rescuers and the victim are not subjected further to the hazards associated with hazardous materials.

Tactical Withdrawal

Sometimes, responders may have to withdraw from an area to protect personnel, equipment and vehicles. Withdrawal from a danger area must always be considered a possibility and withdrawal plans should be prepared. Response personnel should never be placed in a situation where they can get trapped. Before entering an area, responders should plan withdrawal routes to ensure a quick and safe exit in case the situation becomes dangerous and requires withdrawal.

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Bomb Threats

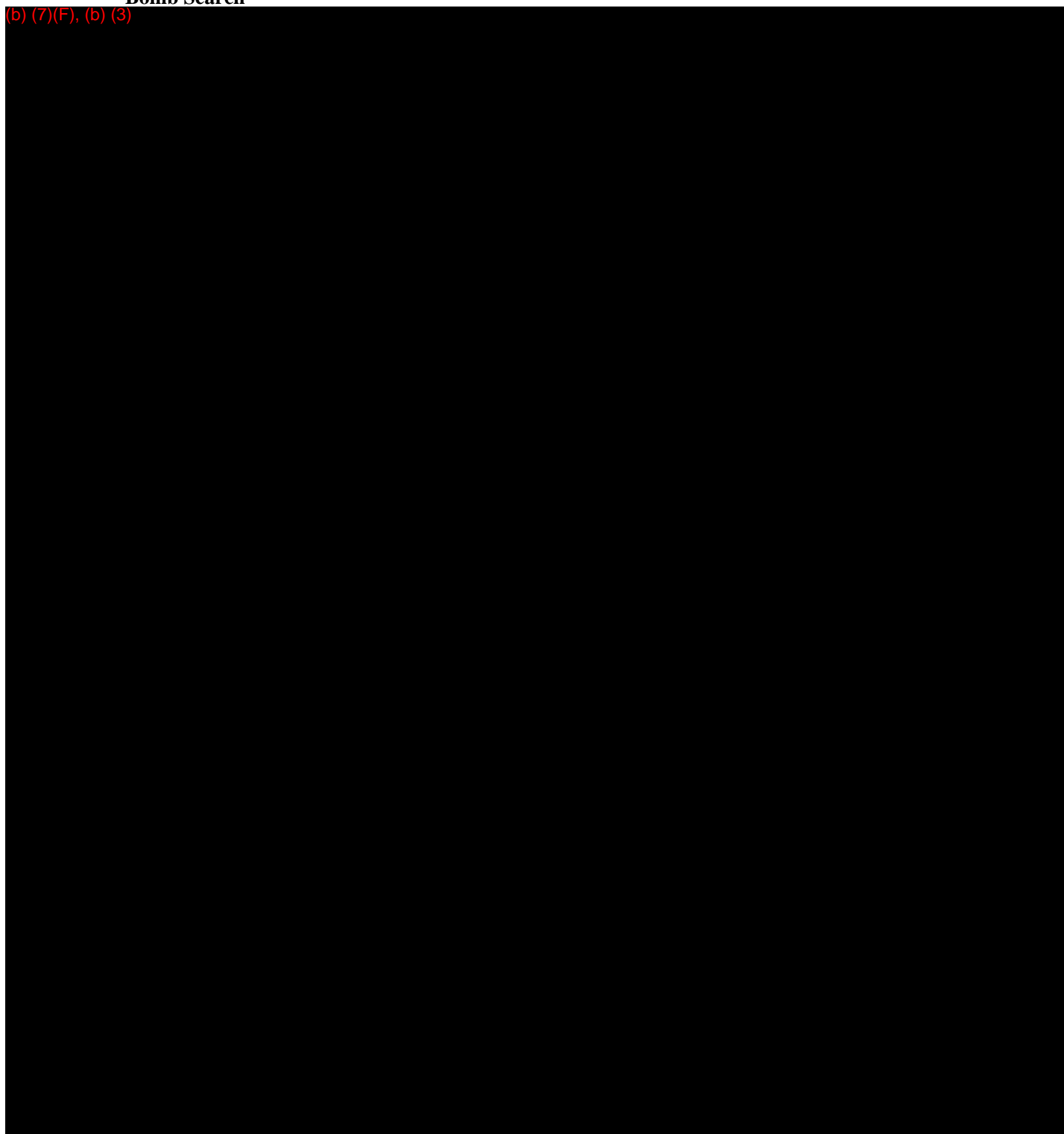
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Bomb Search

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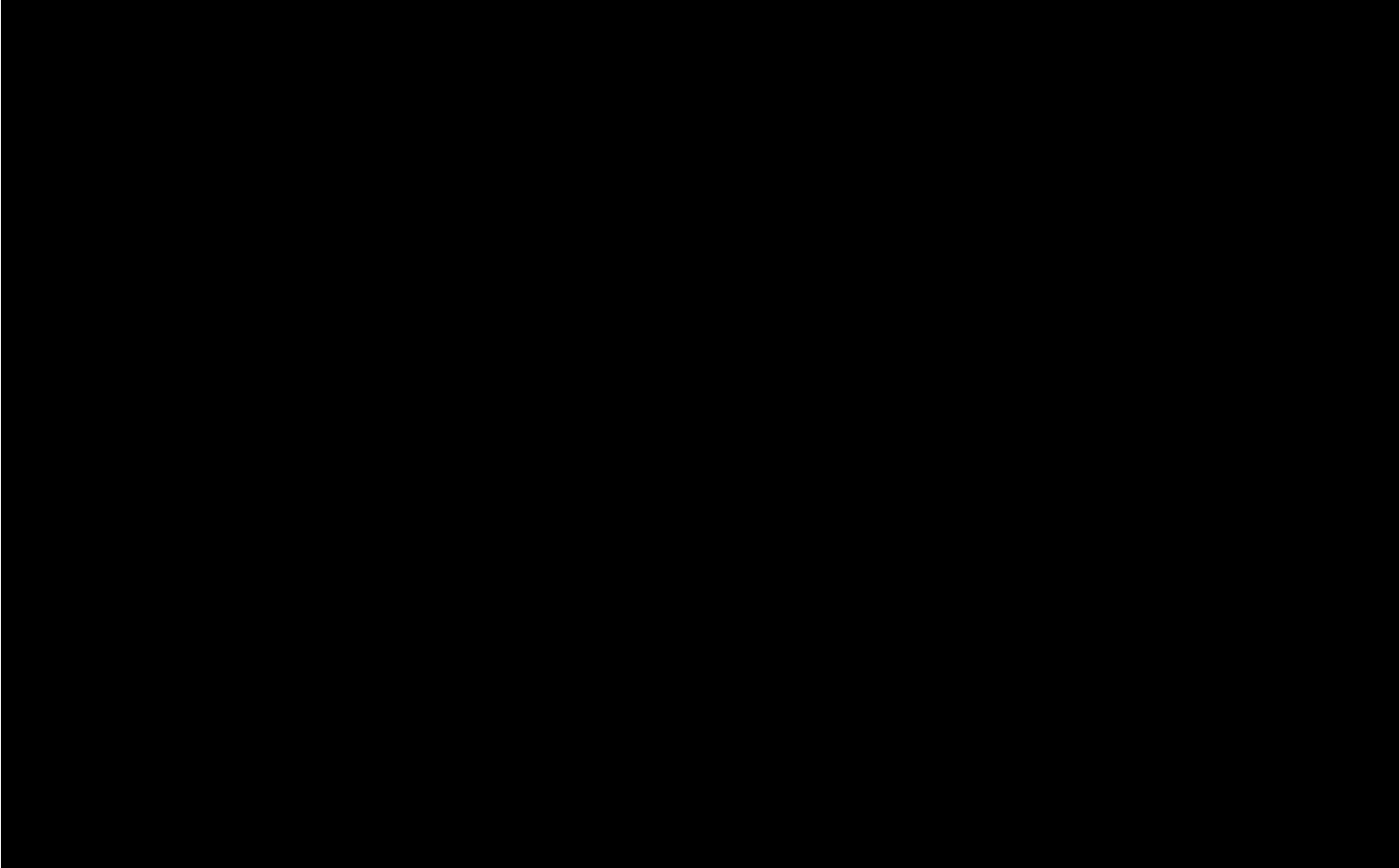


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Severe Weather Plan

Purpose

This Severe Weather Plan provides a coordinated, teamwork-based program intended to reduce the potential for personnel injury, damage to Company facilities and/or curtailment of production due to severe weather.

Since weather conditions are unpredictable, this plan cannot provide for all possible events. It is therefore, the intent of this plan to deal with threatening severe weather conditions. The Team Leader will be responsible for implementing the applicable parts of this plan as needed.

Scope

For purposes of this plan "Severe Weather" is defined as:

- Hurricanes;
- Sub-freezing temperature;
- High winds, severe thunderstorms, lightning or tornadoes; and
- Flooding (from other than hurricane-related rainfall or tides).

Hurricanes

For specific information on hurricanes, please see Natural Disaster-Hurricane Preparedness Plan under the Incident Response Section contained in this Plan.

Freezing Temperatures

A hard freeze is defined as the condition existing when temperatures remain below freezing for a period of six (6) hours or more. If the possibilities of a hard freeze is predicted, preventive measures must be taken to prevent damage to piping and equipment.

All lines subject to freezing must be protected. The cost of repair of even small water lines due to freeze damage can be a major expense, both in terms of direct maintenance costs and production loss. Freeze damage, especially to smaller water lines, is virtually always preventable.

When freezing conditions threaten, the area around any dripping water line (whether the drip is intentional or not) must be properly barricaded and marked as a hazardous area. The puddle formed by the drip will freeze and make the area too slick for the safe passage of personnel or vehicles.

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High Winds, Severe Thunderstorms, Lightning, and Tornadoes

This category of severe weather usually occurs on short notice and organized preparation is not usually possible. To the extent that preparation is possible, the applicable checklist items in mentioned Hurricane Preparedness Plan can be used as a guide.

If sustained high winds are predicted, then as a minimum, a general clean up of the facility should be ordered with special attention given to removing or securing loose items, trash, construction materials, and small equipment which could be damaged or become airborne. Winds above 40 mph can make dangerous projectiles out of otherwise harmless materials such as boards, buckets, cans, bottles, and even small stones.

Loose sheet metal in a high wind is especially dangerous to personnel and to electrical equipment. Flying sheet metal coming in contact with power lines or substation equipment can cause a power outage with serious consequences to facility operations.

Flooding

Flooding from non-hurricane related causes usually happen with little advance warning. In the event such flooding is predicted, the applicable parts of the checklists in the mentioned Hurricane Preparedness Plan should be used as a guide in Flood Preparation Actions. Since advance warning may be limited to only a few hours, each individual with severe weather responsibilities should quickly prioritize the actions to be taken and ensure that the most critical of those actions are carried out first.

If a facility curtailment or shutdown is ordered and sufficient time is available before arrival of the flood, then the Site Specific Shut Down Procedures will be followed. If sufficient time is not available for a planned shutdown, then facility personnel will follow instructions from management and secure the equipment for which they are responsible in the best manner possible.

Severe Weather Checklist

The following checklist should be reviewed during the approach of severe weather:

- Conduct severe weather planning meetings;
- Initiate a severe weather alert to all functional teams;
- Call alert meetings and issue instructions;
- Review weather information from Weather Service and make decisions to formulate action plan;
- Review plan with Supervisors;
- Conduct facility inspection to identify and correct potential hazards;
- Provide support for operations on securing and tying down of all necessary equipment;
- Ensure all trash bins are empty and removed from facility if not needed;

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- Ensure all portable buildings and trailers are secured;
- Review electrical department procedures and make appropriate recommendations;
- De-energize all electrical equipment including switch gear, transformers, and motors that are in danger of flooding;
- Maintain liaison with contractors to ensure compliance with company procedures;
- Fill fuel tanks on equipment, including all vehicles;
- Locate supplies needed upon request from operations and maintenance;
- Ensure land line telephones, mobile telephones, pagers and two-way radio systems are operating properly;
- Coordinate repairs to defective radio equipment as needed;
- Coordinate installation of temporary phone lines;
- Provide environmental coordination with outside agencies;
- Establish and maintain communication with Emergency Operations Center;
- Coordinate meetings to assemble up-to-date information;
- Release all non-essential personnel from facility site;
- Review facility-wide shutdown plan;
- Review employee work schedule to ensure adequate coverage;
- Review procedures for loss of electrical power, pipeline, and/or marine movements;
- Ensure that all tanks and vessels are filled to normal operating levels;
- Coordinate operations activities to ensure minimal risk to employees and facility equipment; and
- Coordinate orderly shutdowns, clearing equipment, and securing process equipment, as needed.

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Natural Disaster – General

In the event of a natural disaster affecting the operation of our facilities, Company employees should be prepared to provide for a prompt and effective response. The type and extent of the response required, depends upon the type of disaster involved and how our facilities are affected.

A natural disaster in our area could consist of the following: hurricane, earthquake, tornado, severe electrical or hailstorm, flood, wind combinations of one or more of these and others. Any of these disasters may or may not cause damage to our facilities or seriously interfere with our operations.

Possible company responses or actions required would be covered by one or more written procedures contained in this Emergency Operating Plan and Procedures, such as: rupture or line break, fire, explosion or leak. Therefore, references should be made to the appropriate section covering the situation.

For specific procedures covering each of the above said natural disaster please see the specific natural disaster procedures immediately following this Natural Disaster- General procedure.

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Natural Disaster – Hurricane Procedure

Hurricane Emergency Procedure

This procedure is intended to cover the preparation and “weathering” of a hurricane without out-of-the-ordinary emergency conditions for a hurricane. If conditions during the storm develop that present hazards other than weather hazards to personnel, the Incident Command System (ICS) and appropriate emergency procedures will be utilized.

The National Weather Service (NWS) and NOAA are the official sources of hurricane weather information for the site. The following warning system is broadcast by the NWS on NOAA radio:

Hurricane Watch

A hurricane watch is issued for a coastal area when there is a threat of hurricane conditions within 24-36 hours.

Hurricane Warning

A hurricane warning is issued when hurricane conditions are expected in a specified coastal area in 24 hours or less. Hurricane conditions include winds of 74 miles per hour (64 knots) and/or dangerously high tides and waves. Actions for protection of life and property should begin immediately when the warning is issued.

Hurricane Categories

- **Category One: 74-95 mph.** Primary damage to shrubbery, signs, and unanchored mobile homes. Tide level is 4 to 5 feet above normal.
- **Category Two: 96-110 mph.** Major damage to poorly structured signs and exposed mobile homes; some damage to roofs, windows, and doors. Tide level is 6 to 8 feet above normal and 2 to 4 hours before hurricane arrival. Immediate evacuation of shoreline homes and low-lying flood prone areas.
- **Category Three: 111-130 mph.** Large trees downed, serious roof, window and door damage. Tide level is 9 to 12 feet above normal. Serious flooding along the coast. Evacuation of low-lying residences within several blocks of the shoreline may be required.
- **Category Four: 131-155 mph.** Extensive roof damage on small homes, destruction of mobile homes, some wall damage. Tide level is 13 to 18 feet above normal. Terrain lower than 10 feet may be flooded inland as far as six miles.
- **Category Five: Over 155 mph.** Considerable roof and structure damage. Some complete building failure. Tide level greater than 18 feet above normal. Major damage to all structures less than 15 feet above sea level within 500 yards of shore. Massive evacuation of residential areas within 5 to 10 miles of the shore may be required.

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Hurricane Preparation Stages

Stage One - Ongoing Preparations

The hurricane season extends from June 1 through November 30. On June 1 of each calendar year, or the first workday thereafter, the Team Leader will convene a meeting of appropriate personnel to initiate hurricane season preparations. At this meeting, the following steps should be initiated by the Team Leader.

- The Emergency Response Team Members shall inspect guy wires and portable building ties downs and assess the need for additional securing.
- The Emergency Response Team Members shall check facility drainage system for good drainage, and check all sheet metal insulation covering and building roofs.
- The Team Leader will review, revise if necessary, and issue detailed checklists for the shutdown and securing of the Company facilities (including material handling areas) in preparation for weathering any hurricane.

Stage Two (2)

Stage two (2) goes into effect as soon as a hurricane watch is issued by the NWS radio. The major items for preparation should have been completed in stage one (1). The following steps will be taken immediately:

- The Team Leader will cause a facility-wide inspection listing conditions that must be corrected and monitor weather reports and keep his/her supervisor informed of any change in hurricane status.
- The Team Leader will remind all employees to prepare their family and homes for possible hurricane conditions and will hold a team meeting to establish the emergency team and discuss procedures in the event of stage three (3).
- The Team Leader will make arrangements with a local motel to reserve rooms for the families of the hurricane Emergency Response Team and will notify his/her supervisor as soon as arrangements are complete.

Stage Three (3)

Stage three (3) will begin after a hurricane warning is issued for the area by NWS. The timing of the steps below will depend to some degree on the storm's position, direction, speed, and probability of affecting the coast.

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The Team Leader will release the Emergency Response Team volunteers on an as-needed basis to take care of responsibilities outside the facility. This decision is strictly at the Team Leaders discretion; however, the goal should be to have the Emergency Response Team in place twelve (12) hours before hurricane force winds (74 miles per hour) are expected at the facility.

This action will allow the release of non-essential personnel in advance of development of hazardous conditions in the area. A careful staffing of the hurricane Emergency Response Team with personnel who can operate or shut down the facility will allow the delaying of the decision to shut down, should the storm change directions at the last minute, or just come close.

Stage Four (4)

Stage four (4) will begin four (4) to six (6) hours before hurricane force winds are expected to reach the facility.

The Incident Commander will coordinate an orderly shutdown of the Pipeline facilities (see stage one, above) and notify his/her supervisor or representative, of the shutdown.

Storm Effects - Hurricanes have four damaging effects: tides, heavy rains, high winds, and tornadoes. Approximately 90% of the damage and injury result from flooding. Persons in facilities in locations subject to flooding should seek shelter elsewhere before the storm. There should be no travel during the storm due to the danger of flying debris, falling trees, and power lines.

Storm Surge - In most hurricanes, “storm surge” caused most loss of life and property damage. Storm surge is different than regular tides. Together, regular tides and storm surge form the “hurricane tide”.

Storm surge development takes place over deep water, where the drop in barometric pressures in the storm center causes the sea to bulge. A second action develops as hurricane winds sweep across the sea surface. This causes a swirling movement of the surface water that gradually goes down to a depth of about 300 feet.

The maximum swirl moves to the right of the hurricane’s eye (track) where wind speeds are highest. There is no change in sea level due to the swirling motion so long as the water remains deeper than 300 feet.

As the hurricane approaches land, the swirling water mass scrapes bottom, tries to spread in all directions, and begins to pile up. Peak surge heights are seen at the shoreline about the time the hurricane center reaches land.

The maximum water swirl occurs 10-20 miles to the right of the storm track, near the point of maximum wind speeds. Thus, the greatest danger from both winds and surge usually is about 15 miles right of that track.

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The surge may lift the ocean 15 feet or more at the coastline. Carla in 1961, produced a 21 foot surge at Matogorda Bay. Camille, which hit Mississippi in 1969, caused a 25 foot surge, the highest ever recorded in the Western Hemisphere.

Among the storms' worst killers and destroyers of property. Tornadoes always pose a threat in the hurricane area. The greatest outbreak of tornadoes on record was associated with Hurricane Beulah when 115 tornadoes were spawned during a five-day period. Sixty-seven of these occurred on one day, setting a national record.

Stage Five (5)

Stage five (5) will begin as soon as storm conditions have subsided.

The Emergency Response Team is to survey the facility to assess the damage, availability of utilities (water, electricity, etc.), and the needs for facility re-start as soon as possible. The post storm assessment survey team should take the following precautions:

- Do not touch or go near fallen utility lines;
- Make sure to see where you are walking. If it's dark stay inside; or if water remains, take no chances wading unless absolutely necessary;
- Drive with extreme caution especially where roads are still under water;
- Poisonous snakes or insects are always a threat in this area during the post-storm clean-up; and
- Guard against spoiled food, contaminated water and fires.

All personnel are to contact the facility (by phone or in person) as soon as possible and advise their availability for returning to work. A list is to be maintained by and for the Incident Commander.

The Incident Commander is to organize a relief for the emergency team as soon as possible so they can take care of out-of-facility responsibilities.

During severe thunderstorm warnings monitor local radio stations for tornado warnings. Follow all National Weather Service instructions. If flooding occurs follow the above procedures.

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Natural Disaster – Tornado Procedure

General

Certain weather conditions are conducive to the formation of tornadoes. When such weather conditions exist, personnel should be alert and on the lookout for an actual occurrence.

Procedure

When weather conditions are such that a tornado could be formed, alert personnel to the fact and:

- Have personnel with conventional radios tune them to monitor weather information. On weather alerts:
 - ◆ Tornado watch means atmospheric conditions are favorable.
 - ◆ Tornado warning means a tornado has been sighted.
- During extreme weather conditions, or if a warning affecting your location is issued, assign an observer to watch storm conditions for a possible tornado.

If a tornado is sighted, notify all affected personnel. Take the following actions as time allows. Remember to protect life first.

- Notify the Control Center if it becomes necessary to seek shelter. Advise them that the location will probably be out of radio communication.
- Extinguish all unnecessary fires and lights.
- Switch over to auxiliary power.
- Do not trip the ESD system. It will function automatically if a fault occurs. Leave facilities in operation and seek shelter.

Personnel in a vehicle when a tornado approaches should:

- Drive at right angles, away from the tornado if possible.
- If the tornado cannot be avoided, seek shelter in a ditch or other low-lying area if below ground shelter is not available.
- Avoid locations under electric power lines.

After the storm has passed and if damage has occurred:

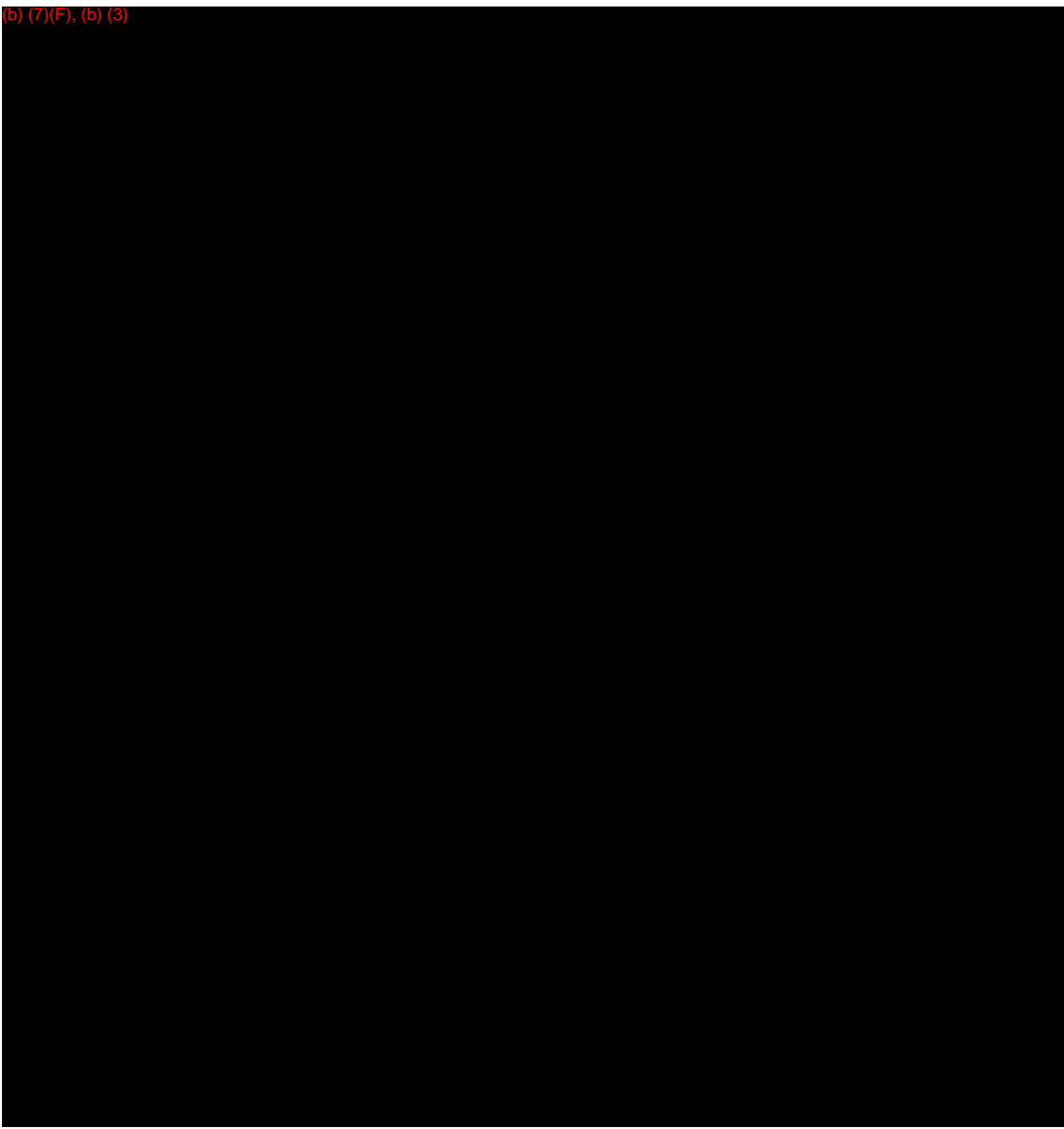
- Survey damage.
- Trip ESD shutdowns, if necessary.
- Isolate those portions of facilities that have been damaged.

Notify the Control Center that the storm has passed. Tell them the amount of damage that has occurred. Proceed with any repairs or other actions that are required.

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Civil Disturbance

(b) (7)(F), (b) (3)



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(b) (3), (b) (7)(F)

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COMPANY ASSISTANCE – REGION/DIVISION LEVEL

Pipeline Systems Control Center

Notifications

Follow the Notification Flowchart located in Section 2 of this Core Plan and contact the Pipeline Systems Control Center for all incidents meeting any one of the criteria as defined below:

- A release of flammable, toxic, or corrosive gas or liquid that causes death or injury requiring in-patient hospitalization
- Any incident that may result in regulatory or media attention, even though no release of gas or liquid occurred
- Any incident that requires reporting to an outside agency
- Any event that causes an intentional but unplanned shutdown of a pipeline facility
- A pipeline rupture that requires isolation and blowdown of gas pipeline facility or flaring of a liquids pipeline facility.

The Control Center will then promptly notify customers that may be impacted.

Pipeline Systems Control Center Responsibilities

The duties of the Pipeline Systems Control Center are to:

- Receive telephone calls on incidents. Immediately after receiving an outside party call, follow the Notification Flowchart located in Section 2 of this Sate Appendix.
- Notify all customers that may be impacted in the event of service disruption. Reference Emergency Shut-In Contact Roster contained in the Site Specific Sections of this Plan.

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COMPANY ASSISTANCE – DIVISION LEVEL

Records

Company will maintain the official files on all incidents occurring on or impacting Company Facilities that are reported to outside regulatory agencies. Each file will be kept at least five years from the date of the incident. Legal department will be contacted prior to destroying a file.

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COMPANY ASSISTANCE - CORPORATE

Follow the Notification Flowchart in Section 2 of this Core Plan.

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OUTSIDE ASSISTANCE

Medical

It is up to the Team Leader in consultation with HES to determine non-emergency medical assistance needs.

Medical Surveillance Program

Under Federal requirements, those persons who are members of a hazardous materials emergency response team or who are hazardous materials specialists are required to participate in medical surveillance program. The federal definition for employees who are members of hazardous material response teams is as follows:

“An organized group of employees, designated by the employer, who are expected to perform work to handle and control actual leaks or spills of hazardous substances requiring possible close approach the substance. The team members perform responses to releases or potential release of hazardous substances for the purpose of control or stabilization of the incident.”

The above definition covers, for the most part, the duties of the majority of the Emergency Response Team members who are part of a designated hazardous materials Emergency Response Team. In addition, the Company will make medical examination or consultations available to all employees who may have been exposed in an emergency situation to hazardous substances and/or who exhibit signs and symptoms from such exposure. These exposure occur at concentrations above the Permissible Exposure Limits (PEL)

- Medical examinations are to be scheduled before members are assigned to a hazardous material team or any Emergency Response Team.
- For those personnel currently members of a hazardous materials Emergency Response Team, examinations are to be scheduled at least once every twelve months.
- Examination are to be scheduled at the termination or reassignment of a team member to a position or classification where that employee will not be covered by the annual medical examination requirement, if that employee has not had an examination within the last six months.
- Examination are to be scheduled as soon as possible, upon notification by an employee (whether or not that employee is a member of the hazardous materials Emergency Response Team) that signs or symptoms indicating possible overexposure to hazardous substances or health hazards have developed, or that an employee has been injured in an emergency.
- Examination are to be scheduled at more frequent intervals, if the examining physician determines that an increased frequency of examination is medically necessary.

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There is no standard medical examination suitable for all hazardous materials response team personnel. Under Federal requirements, the examining physician is to make the determinations as to the content and requirements of the medical examination. To assist the physician in making the proper determinations as to the content of the examination, the Facility is to provide the following documents to the examining physician:

- A copy of OSHA Standard 1910.120 and its appendices.
- A description of the employee's duties as they relate to chemical exposure.
- The employee's exposure levels or anticipated exposure levels.
- Information from previous medical examinations that the examining physician may not have readily available.

Note: OSHA also recommends that a copy of Chapter 5 from Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, which deals with the establishment of a medical surveillance program, be supplied to the physician. This publication is available through the National Institute for Occupational Safety and Health (NIOSH).

The physician, upon reviewing the information provided, will then develop a comprehensive medical examination for the type of activities for which the hazardous material Emergency Response Team will be responsible and the types of chemical that may be encountered. It is very important that hazardous materials Emergency Response Teams keep detailed records dealing with chemical exposure of their personnel

This information should be supplied to the examining physician at each employee's physical examination. Addition tests may be necessary based on the chemical exposure history of the employees.

Employee exposure reports are to be maintained for at least thirty (30) years, and are to be kept as part of the employee's medical records described below.

After the physician has examined the employee and reviewed the necessary test data, the following will then be proved to the Company Facility.

- Results of the medical examination and tests.
- The physician's opinion as to whether the employee has any detected medical conditions that would place him/her at an increased risk.
- The physician's recommended limitations upon the employee's work assignment (if any).
- A statement that the employee has been informed, by the physician, of the results or the medical examinations and any medical conditions requiring further examination or treatment.
- The written opinion given to the facility representative shall not reveal specific findings or diagnoses not related to occupational exposures.

A copy of the above written statements will be provided to the employees at the Company Facility.

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Records of the results of the employee's medical information are to be retained according to established regulations. These records shall include at least the following information

- The name and social security number of the employee
- Physician's written opinions, recommended limitations and results of examinations and tests.
- Any employee medical complaints related to exposure to hazardous materials or substances.
- A copy of the information proved to the physician, which the physician used in determining the requirements of the physical, with the exception of the Federal standard and appendices.

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Local Emergency Planning Committee

General

The Superfund Amendments and Reauthorization Act of 1986 requires that states established State Emergency Response Commissions (SERC) and communities establish Local Emergency Planning Committee (LEPC). Industrial facilities are required to assist the LEPC in establishing emergency plans to deal with chemical emergencies. In addition, industrial facilities are required to report certain incidents or release to the LEPC and SERC immediately by phone (within 15 minutes) or radio with a written follow-up report.

Incidents to be Reported

- Any material in the Facility which appears on the EPA extremely hazardous substance list or on the EPA CERCLA list which is released and crosses the fence or property line in an amount equal to or greater than the reportable quantity (RQ) must be reported. Substance found in the Company Natural Gas Facilities which meet this criteria include:
- Visible smoke which lasts more than five minutes.
- Any unusual odor on site that might extend beyond facility boundaries.
- Any unusual noise which might be heard beyond facility boundaries (or anything that might attract the attention of the community).
- A rash of calls from concerned citizens or the news media.

Note: For further information regarding these substances see Notification Procedure Section of this Core Plan.

Level One (1)

There is no community impact, but possible community awareness. This alert is for informational purposes only. The incident is internal to the facility, but heard, seen or smelled outside the facility. There is smoke, fumes or leaks inside the facility but with no impact outside the facility. No assistance from outside the facility is required.

Level Two (2)

This is a standby alert. There is possible community impact as well as community awareness. An incident is in progress in the facility that can most likely be handled within the boundaries of the facility. However, outside areas could be affected and assistance from community personnel might be required. Community emergency response systems are asked to assume a standby position and wait for further information.

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Level Three (3)

This is a full emergency condition. There is definite community impact and action is required. The incident will not be contained within facility boundaries. Outside assistance will be required and evacuation or indoor protection may be advised. Communities are asked to activate their emergency response systems.

All Clear – Indicates this is the end of an incident; it is safe to return home or go outside. The situation has returned to normal.

Local Emergency Planning Committee (LEPC) Call Procedure

In the event of an incident that falls into one of the categories described above, the LEPC must be notified within 15 minutes!

Note: See specific Local Emergency Planning Committee phone numbers listed in each Site-Specific Section of this Plan.

Call the number listed under the appropriate Parish Emergency Notification Roster contained in the Site Specific Sections of this Plan.

In all incident levels immediate notification must be made by HES Specialist or their Designee. DO NOT WAIT until all information is available. Make the initial call as soon possible and make follow-up calls to provide additional information and keep LEPC informed. Be prepared to provide the following information:

- Your name.
- The name of your company.
- Level of the incident: one (1), two (2) or three (3).
- Nature of the incident.
- Name of the chemicals released (if appropriate).
- Approximate quantity released (if appropriate).
- Wind direction (if appropriate)
- Precautions to be taken such as evacuation or sheltering in place
- Location of advisable evacuations (if appropriate).
- Location of advisable road blocks (if appropriate).

The LEPC requires that the facility be prepared to send a representative to the Emergency Operations Center for any emergency that affects the area.

After an “all clear”, the LEPC must be notified.

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Law Enforcement

Law enforcement must be called during emergencies. During certain emergencies law enforcement must be contacted within the first fifteen (15) minutes to allow for notification and protection of the community.

Note: For further information on law enforcement bomb squads see incident response for bomb threats under the Incident Response Section contained in the General Section of this Plan.

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RESTORATION OF SERVICE

Isolation, Repair, Restoration

General

Service will be restored as quickly as practical following isolation, control and repair of any emergency situation that interrupts service. When the need for control tactics has passed, there remains the task of termination for all parties. Termination includes the return of evacuees, removal of debris and maintenance of traffic. Company personnel with aid of contractors will attend to repairs of the pipeline facility and restoration of service.

Procedure

General procedures for responding to any service outage are as follows:

Contact the Control Center and the local Emergency Operations Center (primary) as soon as possible with the following information:

- A description of the situation;
- The location of the service outage and your relative location;
- An assessment of whether Company Personnel can handle the situation; and
- A request for type of assistance is needed.

Assign or call out the required personnel to complete any required repairs.

Follow the Notification Flowchart, as applicable, located in Section 2 of this Core Plan.

Emergency procedures to accomplish repair will be formulated as dictated by the situation but should approximate the following outline:

- Isolation of the affected pipeline facility by valving;
- Shut-in of all supply sources connected to the section;
- Extinguishing of any fire involved;
- Final depressurizing of the section;
- Repair (according to Company specification and procedure); and
- Repressurizing and equalization of the affected section with adjacent sections after proper purging.

Notify any affected customers and/or interconnected companies of service interruption. See Emergency Shut-In Contact Roster contained in Site Specific Sections of this Plan and coordinate any joint service restoration efforts with them.

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Where service is provided directly to an end user (e.g., an industrial plant). Notify the affected customer and give them the following information:

- Why the service has been interrupted;
- Their service shall be restored as soon as possible;
- That if the outage is going persist they will be notified; and
- They will be notified when service is to be restored.

After necessary repairs have been completed and Company Facilities are back in service, restore service to all customers. All repair actions shall be in compliance with Company Operating Procedures and the General Engineering Standards. Restoration of service to interrupted customer will be coordinated with a responsible person(s) representing the customer should be in agreement with the procedure used to restore service.

Many restorations will require reference to but are not necessarily limited to the following Company operating and other procedures:

- Examination of Buried Pipelines;
- Repair Procedures;
- Operating Pressures - Limit Criteria; and
- Pipeline Defects and Repairs General Requirements.

In situations where service cannot be restored in a reasonable amount of time, consider the following alternatives:

- Supply the customers with volume bottles;
- Switch small numbers of users to alternate fuels such as propane; or
- Arrange for shelters or other temporary housing.

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POST INCIDENT

Clean Up and Disposal

General

Clean-up operations can be either emergency response or post emergency operations depending on the personnel conducting the clean up. There are two possible groups that can conduct clean-up operations, Company employees and outside assistance contract personnel. All equipment to be used in the performance of clean-up work will be in serviceable condition and will have been inspected prior to use.

Company Personnel

If the clean up is done using Company employees who initially responded to the emergency, then the emergency response training requirements are still in effect. Once the clean ups phase begins, the Incident Commander will ensure that clean-up personnel responding during the Post Emergency Phase comply with 29 CFR 1910.120 paragraph (b) through (o).

Contract Personnel

If contract personnel from outside the Company facility are brought in to complete the cleanup of the facility, the contractor clean up is considered to be post emergency operations. The Incident Commander will ensure that the clean-up personnel comply with 29 CFR 1910.120 paragraph (b) through (o). An alternative would be a generic plan that addresses the appropriate elements listed in 29 CFR 1910.120 (b) through (o). It is possible that some of these elements would not be necessary at a particular site and others would have limited applicability. This determination should be made by Unified Command if State and Federal Agencies are on the scene. These elements include:

- Safety and health program;
- Site characterization and analysis;
- Site control;
- Training;
- Medical surveillance;
- Engineering controls, work practices, and personal protective equipment for employee protection;
- Monitoring;
- Informational programs;
- Handling drums and containers;
- Decontamination;
- Emergency response by employees at uncontrolled hazardous waste sites;
- Illumination;
- Sanitation at temporary work places; and
- New technology programs.

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All Clear Designation

For the purposes of this Plan, post response procedures are activities that follow the approval of the all-clear signal by the Incident Commander. If Local, State and Federal Agencies are on the scene and are participating in the response, this determination should be made in a Unified manner. The Site Safety Officer should also be consulted regarding this determination. There is a clear distinction between emergency operations and post response procedures. While the Emergency Response Team controls the site or a safety/health hazard exists, the emergency situation continues to be in effect. When the Emergency Response Team declares the response activity complete and leaves the site, any remaining activities, such as clean-up, are considered to be post emergency response procedures.

The Incident Commander will designate the site all clear only after the following:

- Ensuring that the safety/health hazard no longer poses a threat to Company or contract employees;
- Consulting with the Site Safety Officer regarding the all clear;
- Site security is maintained until clean-up operations are complete;
- Appropriate Controlled Response Procedures have been followed by all personnel;
- The appropriate Company management officials have been notified;
- The proper government agencies have been notified; and
- Termination procedures are in place and being followed.

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Critique and Follow Up

Purpose

A review of an emergency response (critique) will allow involved parties to check the effectiveness of their response capabilities and the Emergency Response Plan as a whole. The ultimate goal of such an exercise is to review each aspect of the response, evaluate response actions, and to revise the existing plan where necessary. As many personnel as possible who served in key roles during the response and cleanup should take part in the critique.

Procedure

A Plus/Delta critique shall take place as soon as possible after the incident.

The Incident Commander should facilitate the Plus/Delta critique and all Lessons Learned should be recorded and acted upon appropriately.

A written record of the Plus/Delta critique and Lessons Learned may become part of the Incident Documentation.

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Investigation

Purpose

The Company Incident Investigation Procedure is intended to provide consistent and formal accident and incident reporting and investigating procedure for use by all operational entities within the Company. These procedures are intended to help prevent loss of life, injuries, property and environmental damage and other losses as well as provide a safer workplace for Company employees and contractors

Follow internal Company Incident Investigation Procedures that are separate from this Plan. Contact HES directly for assistance as necessary.

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Emergency Log

Revised 06/02

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Pipeline Information Report

COMPANY NATURAL GAS - NORTH			
COMPANY:			TNG-NA FORM EOP003
SYSTEM:			
PIPELINE INFORMATION REPORT			
Received By:			Time: AM/PM Date:
Reported By:	Name: Address: 	Telephone: Employed By: 	
Type Of Event: Encroachment On Right of Way Other (New Structure, Construction Activity, Etc. 			
When Observed- Date:		Time:	
Location: 			
Description of Reported Condition or Event: 			
NOTE: IF DRAWING NEEDS TO BE MADE, USE BACK SIDE OF THIS SHEET.			
Investigation of Report: 			
Signed: 		Date: 	
Disposition: 			
Signed: 		Date: 	

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Buried Pipeline Inspection Report

COMPANY NATURAL GAS - NORTH		TNG-NA FORM EOP005
COMPANY:	<hr/>	
SYSTEM:	<hr/>	
BURIED PIPE INSPECTION REPORT		
<hr/>		
Location _____	Date _____	
Line No. _____	Parish / County _____	
Landowner Name _____		
Address _____	City _____	State _____ Zip _____
Reason for Excavation _____		
Pipe Size _____	Depth _____	Length Exposed _____ Type Coating _____
Condition of Coating _____		Site Pipe-Soil Potential _____
Scale or Moisture Under Coating _____		Is Coating Bonded to Pipe ? _____
Visible Damage _____ _____		
Evidence of Corrosion on Pipe (Describe Fully) _____ _____ _____		
Depth of Pit _____		Approximate Number of Pits _____
Length of Contiguous Corroded Area _____		
Distance to Nearest Foreign Line Crossing _____		Name of Company _____
Nature of Repairs _____ _____ _____		
Type of Recoating Material Used _____		
Attach Photographs of Exposed Pipe Before and After Repairs are Made, If Possible		
Remarks _____ _____ _____ _____ _____ _____ _____		
<hr/>		
Prepared By: _____	Date: _____	
Reviewed By: _____	Date: _____	

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Emergency Occurrences and/or Upset Notification

- I. Company Name _____
Physical Location _____
St. or P.O. Box _____
Telephone Number _____
- II. Date and time of verbal notification _____
DEQ official contacted _____
Company official who made the call _____
- III. Emission point source(s) involved? (including the process unit and EIQ numbers, if applicable) _____
- IV. Applicable permit # and the current permitted limit (lbs./hr) for the pollutant(s) Released from the emission point source involved? _____

- V. Which applicable Air Quality regulation limits were exceeded? (so limit, Mass Emission limit, opacity limit, etc) _____
- VI. Give the **date** and **time** the release began and duration of release. _____

- VII. Which specific pollutants were emitted and how much of each compound was released? [total amount of each compound expressed in pounds (**attach emission calculations**)]

- VIII. Upset description, cause, and what off-site impact resulted? _____

- IX. Was the release preventable? Yes / No (circle one).
If no, explain why the release was not preventable: _____

- X. What other agencies were notified? _____

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Emergency Occurrences and/or Upset Notification – Continued

XI. Immediate corrective action taken? _____

XII. Specific remedial action taken and / or planned to prevent recurrence? (Include timetable for completion of project, if applicable) _____

XIII. Regulation notification requirement(s)? (check appropriate)

XIV. **Company Official:**

Signature: _____

Title: _____

Date: _____

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Incident Report

COMPANY NATURAL GAS - NORTH AMERICA						TNG-NA FORM EOP008
COMPANY: _____						
SYSTEM: _____						
INCIDENT REPORT						
<input type="checkbox"/> Test Failure		<input type="checkbox"/> Damage		<input type="checkbox"/> Preliminary		
<input type="checkbox"/> Leak		<input type="checkbox"/> Other		<input type="checkbox"/> Final		
Incident No	_____	Line Number/Name	_____	Date Suspect	_____	
Date Suspect	_____	Date Confirmed	_____	Date Repaired	_____	
District No	_____	Mile Number	_____	Rechain Station	_____	
City, State	_____	County/Parish	_____	Texas:Block	_____	
Sec	Twp _____	Rnge _____	Time of Incident	_____	AM / PM	
Estimated Pressure at Point and Time of Incident (PSIG)		Maximum Allowable Operating Pressure (PSIG)		Elapsed Time Until Area Was Made Safe _____		
Nature and Size of Incident _____						
Cause of Incident _____						
Incident Data						
1 System: _____			9 Material Involved			
<input type="checkbox"/> Transmission System <input type="checkbox"/> Gathering System			<input type="checkbox"/> Steel <input type="checkbox"/> Other, _____			
<input type="checkbox"/> Transmission Line of Distribution System			10 Part of System Involved in Incident			
2 Occurred on:			a Part			
<input type="checkbox"/> Body of Pipe <input type="checkbox"/> Fitting, _____			<input type="checkbox"/> Pipeline <input type="checkbox"/> Regulator / Meter Sta			
<input type="checkbox"/> Mechanical Joing <input type="checkbox"/> Other, _____			<input type="checkbox"/> Compr Sta <input type="checkbox"/> Other, _____			
<input type="checkbox"/> Valve <input type="checkbox"/> Weld, _____			b Year Installed _____			
3 Nominal Pipe Size (In): _____			11 Area of Incident			
4 Wall Thickness (In): _____			<input type="checkbox"/> Under Pavement <input type="checkbox"/> Above Ground			
5 Specification: _____ SMYS: _____			<input type="checkbox"/> Under Ground <input type="checkbox"/> Under Water			
6 Seam Type: _____			<input type="checkbox"/> Other, _____			
7 Valve Type: _____			12 Class Location: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4			
8 Manufactured by: _____ Year _____						
Repair Data						
Repair Type: <input type="checkbox"/> Pipe Replacement <input type="checkbox"/> Pressure Vessel Sleeve <input type="checkbox"/> Other: _____						
Details of Repair:						
Pipe Replacement or Sleeve Location: Beg Sta # _____ End Sta # _____ Specification: _____						
Manufacturer: _____ Test Rpt No _____ P O # _____						
Cost Data						
Gas Lost (Also Report on GS-95):		_____ MCF	_____ \$	Office	Field	
R/W Damages (Estimate - Actual):		(total) _____	(rate) _____	xxxxx	xxxxx	
Field Hourly Labor:		_____	_____	xxxxx	_____ \$	
Supervision (Name - Classification - Hours)		_____	_____ \$	_____	xxxxx	
Material Used: _____						
_____ \$ _____ xxxxx						
Include Reference - Stock Nos , Purchase Order Nos , Etc						
Equipment Cost (Company and Rental):				xxxxx	_____ \$	
Other (Contractors, Etc):				xxxxx	_____ \$	
TOTAL:				\$	_____ \$	
(Prepared by)		(Date)	(Signed by)	Supervisor	(Date)	

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Safety Related Condition Report

COMPANY NATURAL GAS - NORTH AMERICA		TNG-NA FORM EOP009
<p><u>COMPANY:</u> _____</p> <p><u>SYSTEM:</u> _____</p> <p style="text-align: center;">SAFETY RELATED CONDITION REPORT</p>		
<p><u>Company</u> _____ Date of Report _____</p> <p><u>Address</u> _____</p> <p><u>City</u> _____ <u>State</u> _____ <u>Zip</u> _____</p> <p><u>Person Filing Report</u> _____ <u>Title</u> _____</p> <p><u>Address</u> _____ <u>Tel No.</u> _____</p> <p><u>Name of Informant</u> _____</p> <p><u>Address</u> _____ <u>Tel No.</u> _____</p> <p><u>Supervisor Determining</u> _____ <u>Title</u> _____</p> <p><u>Condition Exists</u> _____</p> <p><u>Address</u> _____ <u>Tel No.</u> _____</p> <p><u>Date Condition</u> _____ <u>Date Condition</u> _____</p> <p><u>Discovered</u> _____ <u>Determined to Exist</u> _____</p> <p><u>Location of Safety</u> _____</p> <p><u>Related Condition</u> _____</p> <p><u>Description of Condition</u> _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p><u>Safety Effect on</u> _____</p> <p><u>Pipeline and/or Public</u> _____</p> <p>_____</p> <p>_____</p> <p><u>Corrective Action Taken</u> _____</p> <p><u>to this Time</u> _____</p> <p>_____</p> <p>_____</p> <p><u>Corrective Action</u> _____</p> <p><u>Contemplated</u> _____</p> <p>_____</p> <p><u>Expected Completion</u> _____</p> <p>_____</p> <p>_____</p> <p><u>SIGNATURE</u> _____ <u>DATE</u> _____</p>		

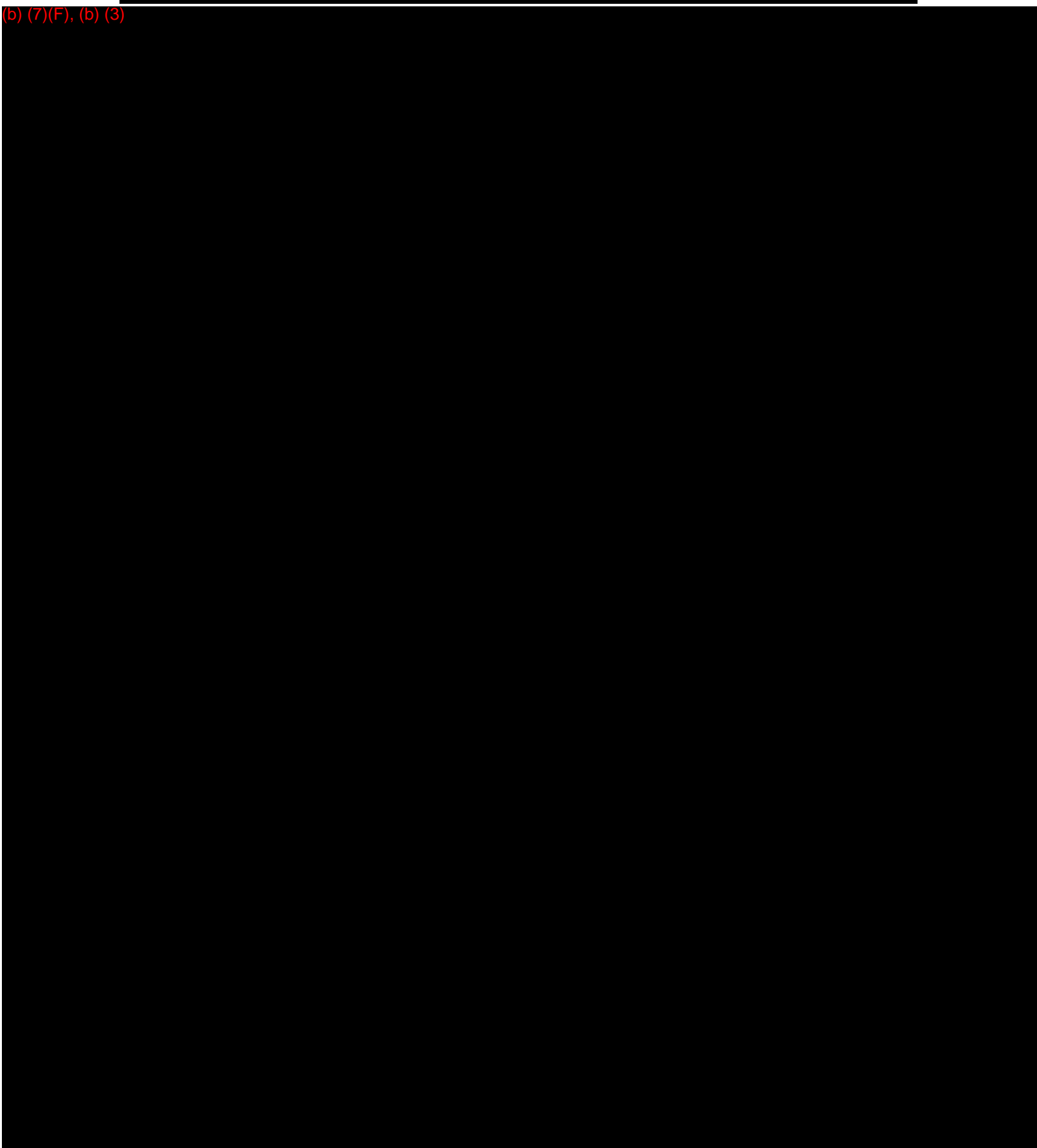
GAS PIPELINES & FACILITIES NORTH AMERICA EMERGENCY OPERATING PLAN
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GAS PIPELINES & FACILITIES NORTH AMERICA EMERGENCY OPERATING PLAN
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(b) (7)(F), (b) (3)



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Emergency Evacuation Checklist

This evacuation list is to be filled out by the Evacuation Designee after all personnel are accounted for during emergency procedures. The Evacuation Designee will continue to update this emergency evacuation checklist as the situation changes. If all individuals cannot be accounted for the Evacuation Designee shall notify the Incident Commander as soon as possible.

Company Employee	Evacuated and Accounted For	Remaining Behind to Conduct Critical Activities

Contract Employee	Evacuated and Accounted For	Remaining Behind to Conduct Critical Activities

Evacuation Designee Name: _____ Date: _____

GAS PIPELINES & FACILITIES NORTH AMERICA EMERGENCY OPERATING PLAN

COMPANY CORE PLAN

SECTION 20

PUBLIC EDUCATION

Public Education Program

General

This procedure outlines the Company Public education program. The public education program shall provide customers, the public, appropriate government organizations, and individuals engaged in excavation activities information on how to learn the location of underground pipelines, and how to recognize and report gas pipeline emergencies. The purpose of the public education program is to protect the general public, Company employees, and the environment. The public education program must also satisfy the requirements of the Department of Transportation regulations 192.614 (b) (2), and 192.615 (d) and 195.440.

Responsibility for Administration

The responsibility for administration of the public education program shall be with the Team Leader.

General

Each area and/or locations shall carry out a public education program which meets the requirement procedure.

The Team Leader is responsible for monitoring the effectiveness of the education programs and advising his/her supervisor if changes are necessary or could be made to improve the effectiveness of the program(s).

The Team Leader should determine if a significant number and concentration of non-English speaking population exists along the pipeline and determine if communications media are needed other than English.

Procedure

Identify customers, appropriate government organizations, and individuals or organizations who excavate, contract projects that require excavation, or those individuals or organizations involved in the planning of excavation activities, or those individuals or groups that live in the vicinity of Company pipelines.

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Communicate the following with the applicable individuals or organizations at least annually, but more often if necessary:

- The purpose and existence of the Damage Prevention Program.
- How to learn the existence of underground pipelines prior to excavation.
- How to recognize a pipeline emergency so that it may be reported to the Company or appropriate public officials.
- Applicable details of this emergency plan.

To assist in identifying individuals, persons, organizations listed above, use the following criteria:

- Include the owner, manager, or tenant actively involved with use of property where the pipeline is located.

Include occupants of dwellings (single or duplex) and managers or operators of other buildings, public use areas, multifamily (three or more units) dwellings, and are not included above. The intent is to indicate the persons who would be most likely to hear, see, or otherwise identify a pipeline problem(s) so they can notify the Company or appropriate public officials.

Identification by mailing address is adequate for individuals and business locations where turnover is frequent. Identification of excavators, public use areas, organizations, other buildings and similar “persons” should normally include the name of the organization or facility (e.g. ABC Excavators, Inc.)

On non-jurisdictional gathering pipelines, it is not necessary to identify individual owners, managers, tenants or occupants addressed immediately above. Consider informing these “persons” through the use of mass media such as newspapers.

Communications media for use in the program may consist of calendars, letters, newspaper notices, maps, advertisements, brochures and other materials (pens, key chains, etc.) Communications may be via a one (1) call organization.

Communications Information shall include the following:

- Company name and telephone numbers.
- Facts about gas being distributed or transported.
- Importance of recognizing and reporting a gas emergency.
- What actions to take in an emergency or if gas leaks are detected or suspected.
- How to identify a pipeline marker.

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Records

The identity of each of the individuals or organizations included in this procedure shall be maintained in tabulation form or other type of listing. Where mailings are involved the mailing addresses shall be included.

Update the listings at least once each calendar year.

Document the transmittal of information or the participation in activities publicizing the Companies Damage Prevention Program and Public Education Program. Retain documentation for at least three (3) years.

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INCIDENT RECOGNITION AND PREVENTION

Loss Prevention

General

A loss prevention program is fundamentally an investigation of processes and systems to identify hazardous conditions or failures of the design, and then to make alterations to adequately protect people and property. The Company's facility loss prevention/loss control program (separate from this Plan) deals with areas of concern such as potential releases and their consequences.

Loss control personnel look for proactive engineering methodologies to control the occurrence of losses rather than incorporating countermeasures in a reactive response to a loss. A vital part of this is timely recognition of emergency conditions that allow prevention and control measures to be enacted prior to an incident.

The emergency recognition and prevention plan consists of continuous employee training, industrial hygiene, fire protection practices, the Process Safety Management Plan, and a reliable system of computerized and mechanical process control parameters.

Early warning is crucial to a loss prevention program.

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Incident Recognition

General

Incident recognition is a major focus in an emergency plan, since personnel can only take appropriate response measures when they know with reasonable certainty what they are dealing with. Routine training is critical for employees who have responsibilities under the Emergency Operating Plan. It is impossible to over-estimate the beneficial effects of simulation exercises, though all forms of rehearsing the Plan are helpful.

Some of the major elements already covered in the Plan that relate to incident recognition will be listed here:

- Alarms, evacuation, monitoring devices, etc. are covered in various Sections in this Plan and in the Company Operating and Maintenance Procedural Manual for Company Pipelines
- General training requirements are covered in Training/Drills, Incident Response contained in this Plan and elsewhere
- Training employees in recognizing potential emergencies is covered in incident response, contained in this Plan, this Section immediately below, and elsewhere

Process Hazard Analysis

Process safety management requirements (29 CFR 1910.119) have established that facilities maintain a source of information that will be useful in preparing for and preventing an emergency. For instance, process safety information is available at the facility and includes a process hazard analysis.

The basic components of a process hazard analysis include:

- An evaluation of processes that might be hazardous
- An analysis of the process area and its hazards
- An analysis of engineering and administrative controls and the consequences of their failing
- An analysis of the possibility of human error and any previous incidents

See previous hazard analyses for more information.

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Characteristics of Hazardous Materials

The characteristics of hazardous materials are described in material data safety sheets. The characteristics that must be recognized in an incident are:

- Toxicity (whether the material is a poison)
- Corrosiveness (whether the material will eat away or gradually destroy another material)
- Radiation hazards (whether the material emits radiation)
- Etiologic hazards (whether the material may potentially cause some type of disease in exposed humans)
- Asphyxiating hazards (whether the material may potentially kill or make unconscious humans or animals by replacing or depleting oxygen)
- Flammable hazards (whether the material may ignite and burn)
- Oxidizing capabilities (whether the material may change after combining with oxygen and become more dangerous)
- Reactive hazards (whether the material may interact with other chemicals yielding an undesired change or reaction)
- Instability (whether the material has a lack of resistance to chemical change, and whether it may undergo unwanted and dangerous alterations)
- Explosive hazards (whether the material may explode)
- Cryogenic hazards (whether the material is very cold)

For more information on material safety data sheets and the location of the material safety data sheet book(s) contact the HES Specialist.

Comprehensive Characterization

Although it may not be needed in all responses, comprehensive characterization is a more methodical investigation than the initial steps of characterization, for which see “Incident Recognition.” A comprehensive characterization serves to enhance, refine, and enlarge the information base obtained during the preliminary inspection. This phase provides more complete information for characterizing the hazards associated with an incident. As a continuously operating program, the second phase also reflects environmental changes resulting from response activities.

Available information and information obtained through initial site entries may be sufficient to thoroughly identify and assess the human and environmental effects of an incident. If not, an environmental surveillance program needs to be implemented. Much of the same type of information as collected during the preliminary inspection is needed. However, it may be much more extensive. Instead of one or two groundwater samples being collected, an extensive ground-water survey may be needed over a long period of time. Results from the preliminary inspection provide a screening mechanism for a more complete environmental surveillance program to determine the extent of contamination. Also, since mitigation and remedial measures may cause changes in the original conditions, a continual surveillance program must be maintained to identify any changes.

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Evaluating the hazards associated with an incident involves various degrees of complexity. The release of a single, known chemical compound may represent a relatively simple problem. It becomes progressively more difficult to determine harmful effects as the number of compounds increase. Evaluation of the imminent or potential hazards associated with an abandoned waste site, storage tanks, or lagoons holding vast amounts of known or unknown chemical substances is far more complex than a single release of an identifiable substance.

Incident Control

The concept of incident control includes suppressing the source, instituting appropriate and effective measures to limit the hazards, isolating the materials and hazards to the smallest possible physical area, and removing people from harm's way.

The procedures to prevent or reduce the hazards associated with chemical incidents are:

- Extinguishing fires and wetting areas
- Removing materials
- Plugging, patching, and other methods (containment) to keep materials in their original containers
- Using dikes, berms, dams, and other techniques to confine spilled materials to the smallest possible physical area
- Using various chemical and physical methods such as neutralization, absorption, dilution, transfer, dispersion, solidification, and others to minimize hazards
- Cooling containers that heat may cause to explode or ignite

During an incident that does not initially involve container failure, there may be a potential for container failure. For example, it may be determined that a container may fail because it is under stress from heat or fire, from mechanical damage, from chemical reactions, etc.

Control of Chemical Hazards

This Section identifies the some of the principal hazardous substances present at the Company pipeline facilities and the primary characteristics including some health effects resulting from a potential release or reaction. For more information on characterizing chemical hazards, see "Incident Response." Also consult your material safety data sheets and/or contact your safety coordinator.

For these and any other substances, see the material safety data sheets (MSDS). The *NIOSH Pocket Guide to Chemical Hazards*, latest edition, may be used as an additional reference.

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SECTION 20

Preplanning

General

Preplanning for an incident will greatly assist response personnel during an actual emergency. Indeed, all the topics in this Section should be rehearsed before any incident occurs.

Personnel who have response duties shall be trained in this Plan and in its procedures. These procedures shall provide for:

- Activation of the center, including notifying the staff
- Onsite communications
- Offsite communications
- Use of equipment and technical support
- Press information and public information
- Accident assessment capabilities

Security and access control provision should also be developed to prevent unauthorized individuals from interfering with emergency operations center staff. Procedures should be established and individuals assigned responsibility by the Team Leader for maintaining emergency operations center equipment in a state of readiness. All of these functions shall be rehearsed in exercises, simulations, etc.

Reviewing the Emergency Chain of Command

The Team Leader is designated the Incident Commander and is ultimately in charge of all emergencies. However, until that individual arrives on location, other Company employees may be responsible for taking charge of an emergency until someone of higher sequence number arrives on site and assumes command:

Assembly and Accounting for Personnel

Once outside the evacuated location, a role call will be taken to determine if any employees are missing.

If an employee is missing, a check will be made with other employees from the area to determine where the missing employee might be.

If a Company pipeline facility office is evacuated, the Company employee on duty/on call will be responsible for taking the visitors log book.

Personnel who are responsible for visitors will escort their guest(s) to the assembly point and wait with them. Facility hosts are responsible for accounting to the Emergency Evacuation Designee for their guests and visitors. If a guest or visitor is missing after checking the Visitors Log Book and visually counting each guest and visitor, the Incident Commander will be notified.

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COMPANY CORE PLAN **SECTION 20**

Control Center Emergency Recovery Plans

This Section contains detailed recovery procedures for defined emergencies.

Loss of Electrical Power

Roof-Mounted Standby Generator Roof-mounted generator automatically supplies power. Determine reason for failure.	
Evaluate any damage to facility. Estimate time for repairs.	
Is time for repairs greater than 24 hours?	
No	Yes
Plan any required measures for personnel	Contract for repairs; maintain Control Center
Resumption of electrical service; generator automatically shuts down.	
Return To Normal Operations	

Outside Communications Failures

(b) (7)(F), (b) (3)

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Radio System Failure – Henry Area Only

Identify channels or towers not working; notify operators of service.	
Check truck to truck communications.	
If Nothing Works:	If Only Truck To Truck Works:
Contact operators of repeater towers in affected area.	Contact Equilon for microwave operation; confirm base stations are operating; replace defective base station if necessary.
Consider using cellular phones or beepers for temporary communications.	Use telephone for access to repeater towers in affected area.
Monitor radio system for return of service.	
Return To Normal Operations	

Minor Damage

Minor Damage To Control Center? – Yes
Advise personnel and customers of status.
Monitor system and make necessary adjustments.
Monitor condition of Control Center; begin necessary repairs.
When repairs completed, resume normal operations.
Advise personnel and customers of normal operations.
Return To Normal Operations

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Major Damage

Major damage to Control Center? – Yes
Advise personnel and customers of status.
Monitor system and make necessary adjustments.
Monitor condition of Facility; begin necessary repairs.
When repairs completed, resume normal operations.
Advise personnel and customers of normal operations.
Return To Normal Operations

Catastrophic Damage

Catastrophic Damage To Control Center? – Yes
Monitor system and make necessary adjustments to the extent possible.
Advise personnel and customers of status.
Request telephone company to relocate critical telephone numbers.
Advise office personnel to relocate offsite.
Operate offsite as "call center" and use telephone / radio / cellular telephone / beeper to coordinate operational activities with field personnel.
Assess damage to computers and/or communications and begin necessary repairs.
Monitor repairs; begin any additional repairs that may be necessary.
When repairs are completed, notify personnel and customers of the reestablishment of the Control Center as the off-site location.
Reestablish the Control Center at the offsite location.
Advise personnel and customers of normal operations.
Return To Normal Operations

Computer Failure

Emergency Response Team should review length of outage; use telephone list to advise personnel.
Information Systems to assess damage to computers and begin necessary repairs.
Monitor repairs to computers; begin any additional repairs that may be necessary.
Workers revert to pre-computer "manual" mode and work using alternate methods.
When service is repaired, advise personnel and customers that service has been restored.
Advise customers and telephone company to return to normal operations.
Return To Normal Operations

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Evacuation

Control Center evacuated due to an impending tropical storm or hurricane incident? – YES
Monitor system and make necessary adjustments to the extent possible.
Advise personnel and customers of status.
Advise office personnel to relocate to offsite location.
Operate offsite location and use telephone / radio / cellular telephone / beeper to coordinate operational activities with field personnel.
When possible, notify personnel and customers of the reestablishment of the Control Center as the offsite location.
When possible, notify personnel and customers of the reestablishment of the Control Center as the offsite location.
Reestablish the Control Center as the offsite location.
Advise personnel and customers of normal operations.
Return To Normal Operations

Control Center Hurricane Plan

The purpose of this Section is to provide preparedness and response activities specific to an impending tropical storm or hurricane incident. These activities supplement those detailed in other sections of this Plan.

Each year at the beginning of hurricane season, the Emergency Response Team Coordinator will assure that a supply of non-perishable food items will be purchased and stored at the Control Center. This food will be available if the Control Center is operational during a hurricane. At the end of hurricane season, the food items may be donated to a local food bank.

When weather conditions predicted by the National Weather Service Hurricane Center indicate that the Control Center area may be affected, the following actions are authorized.

General

In the event that employees based at the Control Center are released because of hurricane conditions, the following telephone numbers will be "manned" to provide information to employees.

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Condition 1

Situation - Tropical Disturbance

The National Weather Service has advised that a tropical disturbance has developed in the Gulf of Mexico or will enter the Gulf of Mexico.

Action - The Emergency Response Team Coordinator will monitor weather reports to ensure preparedness and will keep the Emergency Response Team Manager advised of conditions.

Condition 2

Situation - Tropical Storm

A tropical disturbance has been upgraded in the Gulf of Mexico to a tropical storm or a tropical storm will enter the Gulf of Mexico, and may be upgraded to a hurricane within 72 hours.

Action - The Emergency Response Team Coordinator will contact the Emergency Response Team Manager to schedule a staff meeting at the Control Center to review the following:

- Emergency Preparedness and Recovery Plan.
- Personnel schedules.
- General pipeline system conditions.

The following additional actions will be taken:

- Assemble cellular telephones for possible use at the Control Center.
- Ensure that extra backup tapes or CD's are available.

Condition 3

Situation - Hurricane Watch

The National Weather Service has issued a Hurricane Watch that may include the Control Center within 24 hours.

Action - The Emergency Response Team Coordinator will begin to secure arrangements for the following:

- Food items.
- Sleeping facilities for employees who will be stationed at the Control Center.
- Bottled drinking water.
- Ice and ice chest.
- Key personnel schedules.
- List of Operations personnel that will be stationed at the Control Center for Conditions 4 and 5.

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The following additional actions will be taken:

- Confirm availability of charged batteries for GFMCs.
- Secure availability of contract personnel.
- Confirm readiness of roof-mounted standby generator (primary) and trailer-mounted stand by generator (secondary).
- Confirm readiness of backup systems.
- Survey employees required to work at the Control Center to determine if anyone wants his/her house boarded. Material and boarding plan provided to employee prior to Condition 3.
- Notify customers of transportable telephone numbers and instructions for use in the event of a phone system outage.

Condition 4

Situation - Hurricane Warning

The National Weather Service has issued a Hurricane Warning that includes the Control Center.

Action - The Emergency Response Team Manager, or his/her designee, will communicate to the Executive Contacts that the Plan is in effect and will notify all Team members and begin the following:

- With input from the Executive Contacts, the Emergency Response Team Manager, or his/her designee, may decide to evacuate the Control Center and establish the offsite Control Center at a remote location.
- Move aluminum shutters from the closet in the Control Center.
- Decide which personnel will remain at the Control Center.
- Have truck transportation available.
- If personnel are available, move all office PC's away from windows.

Condition 5

Situation - Hurricane Conditions

Action - The following actions will be taken:

- Secure Control Center.
- Secure computer room if conditions appear extremely severe.
- Monitor pipeline system.
- Maintain operations.

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COMPANY CORE PLAN **SECTION 20**

LEAK CLASSIFICATION AND ACTION CRITERIA

Grade 1

DEFINITION	ACTION CRITERIA	EXAMPLES
A leak that represents an existing or probable hazard to persons or property and requires immediate repair or continuous action until conditions are no longer hazardous.	<p>Requires prompt action to protect life and property. Continuous action until conditions are no longer hazardous.</p> <p>Prompt action may require one or more of the following:</p> <ul style="list-style-type: none"> A. Implementation of company emergency plan B. Evacuating premises C. Blocking off area D. Re-routing traffic E. Eliminating ignition sources F. Venting the area G. Stopping gas flow by closing valves or by other means H. Notification of police and fire departments 	<ol style="list-style-type: none"> 1. A leak judged by operating personnel at the scene to be an immediate hazard 2. Escaping gas that has ignited 3. Gas migration: into or under building, tunnel 4. Indication of gas at outside wall of building 5. Reading of 80% lel in confined space 6. Leak that can be seen, heard or felt. Leak which may endanger general public or property

Grade 2 on next page

GAS PIPELINES & FACILITIES NORTH AMERICA EMERGENCY OPERATING PLAN
COMPANY CORE PLAN **SECTION 20**

LEAK CLASSIFICATION AND ACTION CRITERIA – CONTINUED

Grade 2

DEFINITION	ACTION CRITERIA	EXAMPLES
<p>A leak that is recognized as being non-hazardous at the time of detection, but justifies repair based on probable future hazard.</p>	<p>Leaks shall be repaired within one calendar year.</p> <p>Repair priority criteria should include the following:</p> <ul style="list-style-type: none"> A. Volume and migration of gas B. Proximity of gas leak to buildings and sub-surface structures C. Extent of pavement D. Soil type and soil conditions including moisture content and natural venting <p>Grade 2 leaks should be re-evaluated at least monthly. The frequency of reevaluation should be determined by the location and magnitude of the leak</p> <p>Grade 2 leaks may vary significantly in degree of potential hazard. Some leaks will require scheduled repair within 5 working days, others will allow repair within 30 days</p> <p>The Team Leader shall be notified on the day in which any leak is discovered</p>	<ul style="list-style-type: none"> A. Leaks which require action ahead of any change in venting conditions: A leak which, due to rain-soaked soil conditions, may migrate to the outside of a building B. Leaks requiring action within six months: <ul style="list-style-type: none"> 1. A reading of 40% lel or greater under a sidewalk or in a wall-to-wall paved area 2. A reading of 80% lel under a street or in a wall-to-wall paved area that has significant gas migration potential 3. A reading less than 80% lel in small sub-structures from which gas would migrate 4. A reading between 1% and 5% lel in a confined space 5. A reading of 80% lel in gas-associated sub-structures 6. A leak judged by operating personnel to warrant scheduled repair

Grade 3 on next page

GAS PIPELINES & FACILITIES NORTH AMERICA EMERGENCY OPERATING PLAN
COMPANY CORE PLAN **SECTION 20**

LEAK CLASSIFICATION AND ACTION CRITERIA – CONTINUED

Grade 3

DEFINITION	ACTION CRITERIA	EXAMPLES
A leak that is recognized as being non-hazardous at the time of detection and can reasonably be expected to remain non-hazardous	Leaks should be re-evaluated during the next scheduled pipeline survey or within 15 months of the date of its report.	Leaks which require re-evaluation at periodic intervals: 1. A reading of less than 20% lel in gas-associated sub-structures 2. An lel reading below 80% under a street without wall-to-wall paved area where it is unlikely that gas could migrate to the outside wall of a building 3. A reading less than 1% lel in a confined space

BEAUMONT TERMINAL EMERGENCY RESPONSE ACTION PLAN

The purpose of this Emergency Response Action Plan (ERAP) is to provide quick access to key types of information that are often required in the initial stage of a spill response. The information provided in this ERAP is typically presented in greater detail in other sections of the plan, at locations shown in parentheses. The information provided in this section includes:

- **Qualified Individual/Incident Commander Information–Page 29** provides a summary of roles, responsibilities and authority of the QI/IC.
- **Emergency Response Notification Procedure Flowchart–Page 3** provides direction for Corporate Initial Emergency Response Notifications.
- **Emergency Response to Management FAX–Page 6** provides a fax form for Emergency Notifications to Management.
- **Emergency Notification Phone Lists–Pages 1 and pages 7 through 16** provide phone numbers for response personnel, regulatory agencies, response contractors and environmentally sensitive/ economically important area managers. Facility Response Team Phone Numbers are provided on page 1.
- **Spill Response Notification Form–Page 5** lists the information that should be provided when making internal and external notifications.
- **Immediate Response Actions–Pages 32 through 35** provides a decision guide for determining the appropriate immediate response strategy and a checklist summarizing typical specific immediate response actions, respectively.
- **Response Organization–Page 17** provides the Five Major Functional Areas of NIMS ICS. Page 18 depicts the USCG Operational Planning Cycle that will be utilized to facilitate the response process.
- **Response Equipment List–Page 31** identifies the owned/onsite equipment available to respond to oil spills at the terminal.
- **On-Site Response Team–Page 1** depicts the Facility Response Team and Primary Qualified Individual/ Incident Commander and QI/IC Alternates.
- **Facility Evacuation Plan–Pages 20 through 28 and Evacuation Map** identifies evacuation routes and assembly points. The associated text provides a summary of evacuation procedures.
- **Facility Diagrams–Pages 36 through 38** shows the general layout and drainage patterns for the terminal.

**BEAUMONT TERMINAL
EMERGENCY RESPONSE ACTION PLAN**

BEAUMONT TERMINAL ERAP

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TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP**

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TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

BEAUMONT QUALIFIED INDIVIDUAL(S) INITIAL RESPONSE TEAM (IRT) (24 HOUR CONTACT INFORMATION)

3900 Highway 366 , Nederland, TX 77627				P. O. Box 237, Nederland, TX 77627			
Response Position	Name	Travel Time To Terminal	Job Title	Home Address	Office	Home	Cell/Pager
*IC/OPS	Baumann, Thomas E.	45 Minutes	Shift Supervisor	(b) (6)	409-724-3278	(b) (6)	
Gen. Staff	Borzilleri, John A.	10 Minutes	Electrical Technician		409-724-3316		
Gen. Staff	Brasher, Danielle	25 Minutes	Volumetric Analyst		409-724-3288		
Gen. Staff	Broussard, Joseph	60 Minutes	Shift Supervisor		409-724-3278		
Gen. Staff	Bryant, Terryl	35 Minutes	Mechanic		409-724-3335		
LOG	Byrd, Eddie J.	25 Minutes	Shift Supervisor		409-724-3278		
PLAN	Castleman, Billy D.	30 Minutes	Maintenance Supervisor		409-724-3264		
Gen. Staff	Clark, Henry E., Jr.	90 Minutes	Advanced Electrical Eng.		409-724-3274		
*IC/OPS	Connally, Jack	45 Minutes	Pipe Line Technician		409-724-3366		
Gen. Staff	Finley, Robert	35 Minutes	Engineer		409-724-3368		
Gen. Staff	Fontenot, Kevin	30 Minutes	Shift Supervisor		409-724-3278		
Gen. Staff	Granger, Stephanie	30 Minutes	Engineer		409-724-3265		
*IC/OPS	Guidry, J.W. (Wally)	60 Minutes	Project Foreman		409-724-3358		
Gen. Staff	Guidry, Katherine	30 Minutes	Office Assistant		409-724-3220		
LNO	Herman, Michelle	20 Minutes	Environmental Specialist		409-724-3321		
SSO	Hibbits, Thomas A.	25 Minutes	Shift Supervisor		409-724-3278		
OPS	Higginbotham, N.A. (Adam)	50 Minutes	Shift Supervisor		409-724-3245		
Gen. Staff	Hollar, Walter	15 Minutes	Pipeliners		409-724-3330		
Gen. Staff	Job, Billy L.	15 Minutes	Safety Specialist		409-724-3268		
Gen. Staff	Jones, Robert, B.	15 Minutes	Electrical Technician		409-724-3334		
Gen. Staff	Maxwell, Mark	15 Minutes	Customer Service Rep.		409-724-3209		
Gen. Staff	McGowin, A. (Nita)	10 Minutes	Customer Service Rep.		409-724-3215		
Gen. Staff	Milner, Bill	30 Minutes	Shift Supervisor		409-724-3278		
Gen. Staff	Plokhoooy, Diana R.	10 Minutes	Volumetric Analyst		409-724-3395		
Gen. Staff	Sadler, Lynn	15 Minutes	Environmental Specialist		409-724-3353		
*IC/SSO	Singletary, William	25 Minutes	Safety Specialist		409-724-3344		
Gen. Staff	Jackson, Stewart	20 Minutes	Volumetric Analyst		409-724-3232		
FIN	Tomlin, Jan A.	30 Minutes	Super. Term. Accounting		409-724-3226		
*IC	Whitten, Ed	15 Minutes	Manager, Bmt. Terminal		409-724-3311		

* **Qualified Individuals**

Incident Commanders (IC) are issued On Scene Incident Commander HAZWOPER cards and are designated as qualified individuals for Chevron Pipe Line and have full authority to:

- **Activate and engage in contracting with oil spill removal organization(s).**
- **Act as Liaison with the pre-designated Federal On-Scene Coordinator (OSC); and**
- **Obligate funds required to carry out response activities.**

Incident Commanders are qualified to fill any open Section Chief's role.

Note: Section Chiefs and General Staff will be appointed at the time of the incident by the Incident Commander/Terminal Manager.

IC – Incident Commander, SSO – Site Safety Officer, OPS – Operations Section Chief, LOG – Logistics, PLAN – Planning, FIN – Finance, LNO – Liaison

TEXAS STATE APPENDIX

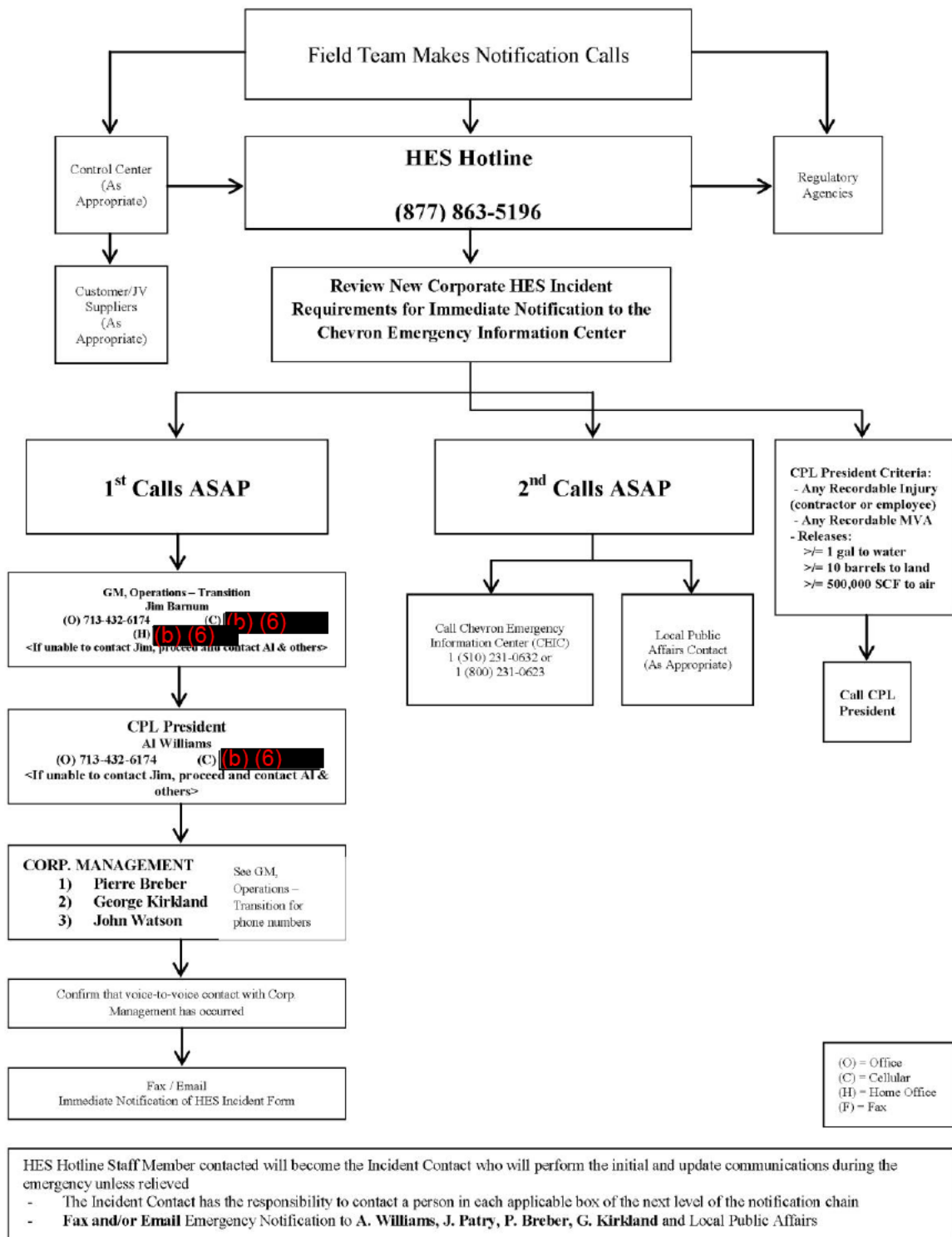
BEAUMONT TERMINAL ERAP

SATELLITE PHONES

Control Center					
ESN Dec	MSN	Ph #	Data #	Ph # 800	Location
8988169414000657518	300224010033530	(b) (6)	881693473431	(b) (6)	Phone 1 NGAS
8988169414000657526	300224010038500		881693473424		Phone 2 NWCP
8988169414000657534	300224010132330		881693473425		Phone 3 BPCC
8988169414000657542	300224010133330		881693473427		Phone 4 LALC
8988169414000657559	300224010036960		881693473426		Phone 5 GLFC
8988169414000657567	300224010032800		881693473428		Phone 6 CHEM
8988169414000657575	300224010034950		881693473429		Phone 7 LPG
8988169414000657583	300224010032510		881693473430		Phone 8 TSCP

Beaumont Terminal					
ESN Dec	MSN	Ph #	Data #	Ph # 800	Location
8988169414000657211	300214010870750 881641473465	(b) (6)	8666078206	(b) (6)	Katherine Guidry
8988169414000657229	300214010976910 881641473463		8666114537		

INTERNAL HES NOTIFICATION FLOWCHART

CHEVRON PIPE LINE CORPORATION MANAGEMENT
INTERNAL HES NOTIFICATION FLOWCHART

Revised 05/2014

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

INCIDENTS REQUIRING IMMEDIATE INTERNAL CORPORATE MANAGEMENT NOTIFICATION

Note: Internal Corporate Notification information only, not synonymous with Federal or State spill reporting Notifications Criteria located elsewhere in this Plan.

Incidents Requiring Immediate Notification to Corporate Management

Highlighted Fields Indicate Reporting Requirements of a More Stringent Nature Within and Through the Chevron Gas & Midstream Organization

Incident Type	CG&M SBU* President or VP	CG&M President	Corp Emergency Response Staff and VP, HES	Reporting Officer and Chairman
Work-related fatality of employee, contractor, or third party	M	M	M	M
Work-related recordable injuries of employee, contractor, or third party	M	M		
Incidents resulting in multiple employee, contractor, or third party overnight hospitalization; (except for observation only)	M	M	M	M
Petroleum or petroleum product spills <u>equal to or greater than 1 gallon and less than 1 barrels to water</u>	M			
Petroleum or petroleum product spills <u>equal to or greater than 1 barrels and less than 50 barrels to water</u>	M	M		
Petroleum or petroleum product spills <u>greater than 50 barrels to water</u>	M	M	M	M
Petroleum or petroleum product spills <u>greater than 10 barrels and less than 500 barrels to land</u>	M	M		
Petroleum or petroleum product spills <u>greater than 500 barrels to land</u>	M	M	M	M
Any incident that attracts international or broad USA media coverage	M	M	M	M
Any incident that attracts significant local media coverage	M	M	M	R
Natural disaster, political unrest, civil disturbance, or other situations that threatens safety, health, or welfare of employees or contractors	M	M	M	R
Incidents resulting in the need for employees or public to shelter-in-place or evacuate	M	M	M	R
Release of Produced Gas, Natural Gas, or LPG <u>greater than 500,000 SCF and less than 10 MMSCF or that presents fire/explosion hazard to populated area</u>	M			
Release of Produced Gas, Natural Gas, or LPG greater than 10 MMSCF or that presents fire, explosion hazard to populated area	M	M	M	R
Any release of LNG that is reported to government agencies, or attracts, or is expected to attract media attention, or: involves a vessel incident.	M	M	R	R
Chemical release to land, water, or air greater than 8000 Kg or that threatens human safety or health or adverse impact to environment.	M	M	M	R
Fire, explosion, well blowout or other incident damaging Company and/or third party assets with costs likely to exceed \$500,000 for physical damage, loss of product or production, and incident response	M	M	M	R
Note: kidnapping and ransom				

See CVX Corporate Security Guidelines

Note:

M = Mandatory (Phone call via operating chain preferred for initial notification Details can follow via email or fax)

R = Recommended

20110530Upward Notification Require doc

*SBUs may have requirements that differ for what is reportable to their management

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****IMMEDIATE NOTIFICATION OF HES INCIDENT INFORMATION FORM**

To be used when Upward Notification by telephonic and e-mail communication methods are either unable to be performed or prove unsuccessful.

Business Unit:		Location:	
Person Making Notification:	Local Date and Time of Notification:	Contact Number:	
Type of Incident: <input type="checkbox"/> Fatality <input type="checkbox"/> Spill/Release <input type="checkbox"/> Injuries <input type="checkbox"/> National/Significant Local News Coverage <input type="checkbox"/> Other Significant HES Incident _____			
Local Date and Time of Incident:			
Description of Incident/Name of Oil Involved/Estimated Volume of Oil Spilled:			
Injuries:			
Actions Taken or Planned:			
Assistance Required:			
Media Attention:			
Other Information, Including Weather Conditions:			
Corp ERS Team Member Taking Report:			

Fax: 1-510-242-3787

E-mail: ceichl@chevron.com

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****EMERGENCY NOTIFICATION TO MANAGEMENT FAX****EMERGENCY
NOTIFICATION TO
MANAGEMENT FAX**

From:

Chevron Pipe Line Company
4800 Fournace Place
Bellaire, TX 77401

Phone: () -

Fax: (713) 432-3477

Date:

Pages 2

ChevronMr. Al Williams (CPL President)
Mr. George Kirkland (Vice Chairman)
Mr. Pierre Breber (Chevron President)At: (AWilliams@Chevron.com)
(GLKirkland@Chevron.com)
(PBreber@Chevron.com)

CEICHL

(800) 231-0623 (CEICHL)

Remarks: ☐ Urgent ☐ Please Confirm Receipt ☐ Reply ASAP

CPL Emergency Incident Contact is: _____

Phone Number: _____

Revised: 06/01/14

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

TEXAS RELEASE NOTIFICATIONS

TEXAS RELEASE NOTIFICATIONS	
State Agencies	
Note: The RQ for spills or discharges directly into water in the state is the quantity sufficient to create a sheen. Release to Land/Air/Water (Note: The 24 hour 800-832-8224 number is considered approved notification for GLO, TRC Oil and Gas and TCEQ. Calling this number does not count as approved notification for TRC Office of Pipeline Safety. The Pipeline Safety number is listed below.)	
Texas Railroad Commission (TRC) Oil & Gas Division (Immediately notify for all crude oil, petroleum based products and LPG releases greater than 5 bbls or any fire, leak, spill or blowout causing loss of life) TRC jurisdiction includes all intrastate onshore pipelines as well as intrastate pipelines originating in Texas waters (defined as up to 9 miles offshore). Note: Refer to page 13 of this Section for special reporting for underground storage of gas, liquid and liquefied petroleum gas in salt formations.	(800) 832-8224 24 Hrs (713) 869-5001 8a – 5p
Texas Commission on Environmental Quality (TCEQ) (Notify within 2 hours of discovery if the DOT reporting requirements are met)	(800) 832-8224 24 Hrs
Texas Railroad Commission (TRC) Office of Pipeline Safety (lines jurisdictional to TRC within 2 hours of discovery) TRC jurisdiction includes all intrastate onshore pipelines as well as intrastate pipelines originating in Texas waters (defined as up to 9 miles offshore).	(512) 463-6788
Counties affected: See LEPC pages to follow Notify of any RQ Incident which impacts the public (all air releases are included) and all spills or discharges that enter or threaten to enter water.	
Texas General Land Office (GLO) Notify Texas GLO of any unauthorized discharge of oil that impacts or potentially impacts state waters (up to 9 miles offshore). An unauthorized discharge is a discharge of oil potentially harmful to the environment or public health or presents a danger to public health or welfare. A quantity of oil sufficient to either create a visible film or sheen upon or discoloration of the surface water or a shoreline, tidal flat, beach or marsh or to cause a sludge or emulsion to be deposited beneath the surface of the water or on a shoreline, tidal flat, beach or marsh is reportable.	(800) 832-8224 24 Hrs

DOT SPECIALIST NOTIFICATIONS

DOT Specialist Notifications		
Note: In addition to following the HES Notifications Flowchart and making the required agency notifications above and below, notify the appropriate DOT Specialist when any of the flowing occurs: Spill, Releases, MVC's involving company operated commercial vehicles and nay incident involving an OQ covered task. DOT Specialists geographic area and telephone numbers are listed below:		
Name	Phone #	Area of Responsibility
Randy Burke	281-451-7537	Texas – Shares the responsibility for Colorado, Utah.
Henry Leger	337-654-8915	Louisiana, Mississippi, Alabama as well as the following entities extending into the state of Texas: Chevron Petrochemical Pipeline, LLC & Sabine Pipe Line, LLC.
Garrett Parker	713-598-0613	Shares responsibilities for Utah, and Texas, Louisiana, Mississippi, Alabama as well as the following entities extending into the state of Texas: Chevron Petrochemical Pipeline, LLC & Sabine Pipe Line, LLC.
Gary Saenz	281-450-5523	California – Shares the responsibility for Colorado, Utah.
Jeff Richardson	713-628-6319	California – Shares the responsibility for Colorado, Utah, Texas, and Louisiana.

NATIONAL RESPONSE CENTER (NRC)	
800-424-8802	
Notify the NRC for any release to water. Refer to additional NRC requirements in the NRC Reporting Section of this document.	

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****BEAUMONT TERMINAL SPECIAL REPORTING NOTES**

- Oil to Neches River, Vernor's Slough, KCS Ditch or threatens same:
 - Notify NRC
 - Notify GLO
- Oil to land, > 5 bbl or threatens groundwater:, non-E&P
 - Notify TCEQ
- Oil to land, > 5 bbl or sensitive area, E&P/Pipeline
 - Notify TRC
- Roof seal, flare, or other air (including fire): TCEQ Air Upset line – The State of Texas Number will take care of this. The local number for the TCEQ is 409-898-3838.

GAS PIPELINE RELEASES

<p>Texas Railroad Commission</p> <p>Although CPL gas pipelines in Texas are interstate pipelines, notify the Texas Railroad Commission of:</p> <p>Accidents involving \$5,000 property damage, a fatality or injuries, gas ignition, or that are judged significant must be reported by telephone within two hours, and the written report filed within thirty (30) days.</p> <p>Per the Railroad Commission, examples of releases that are judged to be significant include but are not limited to a segment of pipeline that becomes out of service due to a release and results in road closure, building closure or evacuation.</p>	<p>(800) 832-8224 24 Hrs</p>
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NATIONAL RESPONSE CENTER**National Response Center (NRC) 1-800-424-8802**

For oil spills, liquid pipeline releases, gas pipeline releases, other releases as defined below:

All Spills

- Any release to water

Liquid Pipeline Releases

At the earliest practicable moment following discovery of a release of the hazardous liquid or carbon dioxide transported resulting in an event described in Sec. 195.50, the operator of the system shall give notice, in accordance with this section, of any failure that:

- Caused a death or a personal injury requiring hospitalization;
- Resulted in either a fire or explosion not intentionally set by the operator;
- Caused estimated property damage, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000;
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines; or
- In the judgment of the operator was significant even though it did not meet the criteria of any other paragraph of this section.

Reports made under this paragraph must be made by telephone to the National Response Center at 800-424-8802 or 202-267-2180 and must include the following information:

- Name and address of the operator.
- Name and telephone number of the reporter.
- The location of the failure.
- The time of the failure.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Telephonic Notification to NRC – Continued**Gas Pipeline Releases**

Per DOT, Gas means natural gas, flammable gas, or gas which is toxic or corrosive;

Incident means any of the following events:

- An event that involves a release of gas from a pipeline or of liquefied natural gas, liquefied petroleum gas, refrigerant gas, or gas from an LNG facility and that results in one or more of the following consequences:
 - (i) A death, or personal injury necessitating in-patient hospitalization;
 - (ii) Estimated property damage of \$50,000 or more, of the operator or others, or both, but excluding cost of gas lost;
 - (iii) Unintentional estimated gas loss of three million cubic feet or more;
- (2) An event that results in an emergency shutdown of an LNG facility. Activation of an emergency shutdown system for reasons other than an actual emergency does not constitute an incident.
- (3) An event that is significant, in the judgment of the operator, even though it did not meet the criteria of paragraphs (1) or (2) of this definition.

At the earliest practicable moment following discovery, each operator shall give notice of each incident as defined above.

Each notice shall be made by telephone to 800-424-8802 and shall include the following information:

- Names of operator and person making report and their telephone numbers.
- The location of the incident.
- The time of the incident.
- The number of fatalities and personal injuries, if any.
- All other significant facts that are known by the operator that are relevant to the cause of the incident or extent of the damages.

Chemical Spills to Land or Air

- Chemical release that exceeds the RQ.

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****Other Contact Information**

Notify of any RQ incident or any incident which impacts the public (all air releases are included). See LEPC pages to follow:

1. Your LEPC

(Local Emergency Planning Committee)

See listings to follow.

AND

2. The SERC

(The State Emergency Response Commission), care of: Department of Public Safety, Emergency Response Center (800) 832-8224 (24 hour number)

For reportable CERCLA chemical spills, also notify:

3. The NRC

(National Response Center)

800-424-8802

4. The TCEQ

(Texas Commission on Environmental Quality Commission)

Pollution Cleanup Division

800-832-8224 (24 hour number)

or

contact the appropriate regional office of TCEQ

TCEQ REGIONAL OFFICE

TCEQ Region 10	Beaumont	(409) 898-3838
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TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****BEAUMONT REPORTING ADDITIONAL PHONE LIST AND NOTIFICATION INFORMATION**

Emergency response notifications will be made per Section 2 of this State Appendix.

EMERGENCY PHONE LIST BEAUMONT TERMINAL

In addition to following Notifications Procedures in Section 2 of this State Appendix, these telephone numbers are presented as supplemental, to be utilized as needed.

Facility Response Notification	
No. 1 Gate Security Guard (to activate Emergency Response System)	409-724-3300 24 hr. emergency number for all personnel
Rescue (Notify Nederland Fire Department)	409-723-1531
Medical (Non-Rescue)	Call 911 for Ambulance
SPR Pipeline	
Pipeline Control Center	800-285-8744
Strategic Petroleum Reserve Pipeline (SPR) Operator @ Port Arthur, Texas	409-736-3424
Explorer Pipeline Company Operator @ Port Arthur, Texas	409-736-4251

Facility Telephone Number/Facsimile:	Main Phone No		409-722-3441
	Facsimile No		409-724-3219
Pre-Designated Command Post:	South end of T&E Building		Phone Ext. 3327
Command Post Phone Number(s):	Emergency First Aid Shift Supervisor		Ext. 3300 Ext. 3327
Other Information:	Command Post	Ext. 3327	Controller Office, T&E Bldg.
	Planning & Logistics	Ext. 3335	Rm. 418, T&E Bldg.
	Fax Command	Ext. 3207	TSO Room, T&E Bldg.
	Fax Environmental	Ext. 3254	HES Wing, Admin. Bldg.
	Fire Station	Ext. 3294	

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

Facility Response Notification - Continued

Medical Emergency		
Hospitals (to notify of personnel being sent for treatment and exposure)	The Medical Center of South East Texas 409-727-2321 - Main Number Baptist Hospital of SE Texas 409-654-5214 - Emergency Room 409-835-3781 - Main Number St. Elizabeth’s Hospital 409-899-7000 - Emergency Room 409-892-7171 - Main Number	
Ambulances (to transport injured or ill to hospital)		409-729-7911
Federal		
U.S. Coast Guard (to close Neches River traffic if necessary to prevent oil from moving into sensitive areas and for containment)	Captain-of-the-Port	409-723-6500 409-723-6501 409-719-5000
U.S. Department of Transportation	800-424-8802	
F.B.I. (if national security at risk)	713-693-5000 - 24 Hr. Number 409-832-8571	
U.S. Fish and Wildlife Service (if sensitive environments such as Gray’s Cut, Gray’s Bayou, or Bessie Heights Canal are impacted)	Special Agent Resident Agent In Charge	409-861-4436 (W) 281-876-1520 Houston
U.S. Army Corps of Engineers (if dredging will be required for cleanup)	409-766-6315 409-766-3956	
U.S. EPA (inland release)	866-372-7745 - 24 Hr. Number 214-665-2207 – Office 214-665-6444 – Main Number	
National Weather Service	281-337-5074 (recorded)	
State		
Texas General Land Office - (GLO) TGLO Duty Pager	800-832-8224 (24 Hr) 409-727-7481 (8am-5pm) 800-527-2431 (pin 4861)	
Texas Commission on Environmental Quality (TCEQ) Texas Emergency Response Coordinator (TERC) (inland release)	USE TGLO 1-800# 409-898-3838 800-832-8224	(During Working Hrs) (24 Hr. Number)
Texas Department of Health Texas Bureau of Food & Drug Safety Shellfish (coastal spills)	512-834-6700	
Department of Public Safety (if public evacuation required)	409-924-5400	
Texas Rangers Traffic control beyond county and state police resources required)	713-957-6161 713-957-6192 - 24 Hr. Number	
Railroad Commission of Texas	713-869-5001	

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

Facility Response Notification - Continued

Local						
Jefferson County Emergency Management					409-835-8757 (after office hours, contact sheriff and request Greg Fountain be contacted)	
Jefferson County Sheriff (if evacuation or traffic control required outside facility)					409-835-8411 or 911	
Area Law Enforcement Nederland Port Neches Beaumont Port Arthur Lumberton Hardin County Sheriff					409-722-4965 409-722-3122 409-832-1234 409-983-8600 409-755-3400 409-246-5100	
Jefferson County Environmental Control (if off-plant release)					409-722-0292 or 409-832-6959	
Port Arthur City Engineer (all pipeline leaks within 24 hours) (written report within 30 days)					409-983-8180 (Public Works) 409-983-8396 (Engineer)	
Port Arthur Office of Emergency Management (for all state or federal reportable)					Chief of Police Supervisor	409-983-8613 or 409-983-8611 409-983-8674
Schools (if evaucation required)					PNG Superintendent	409-722-3351
Response Resources						
R (Rescue) H (Hazmat) F (Fire) O (Oil)						
R	H	F	O	Local Fire Department	Nederland Port Neches Port Arthur Beaumont Orange	409-722-8262 409-722-3312 409-983-8700 409-838-6371 409-886-7431
		F	O	Response Contractors for Major Fires/Spills (additional equipment beyond local contractor resources required)	Williams Fire & Hazard Control 409-727-2347/281-999-0276 - 24 Hr. Boots & Coots, Industrial-Marine Firefighters 800-BLOWOUT/281)-931-8884 - 24 Hr.	
	H		O	Response Contractors (if spill is to Neches River, or threatens river, and cannot be controlled with on-site equipment) (*included for information only)	Garner Environmental Services, Inc. 409-983-5646 - 24 Hr. Pneumatic Industrial Services, Inc. 409-735-9121 - 24 Hr. 409-723-9856	
R	H	F	0	Sabine-Neches Chiefs Association	Star Enterprise ExxonMobil (Main Gate) Premcor	409-989-7629 409-757-3367 409-985-1201

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****Facility Response Notification - Continued**

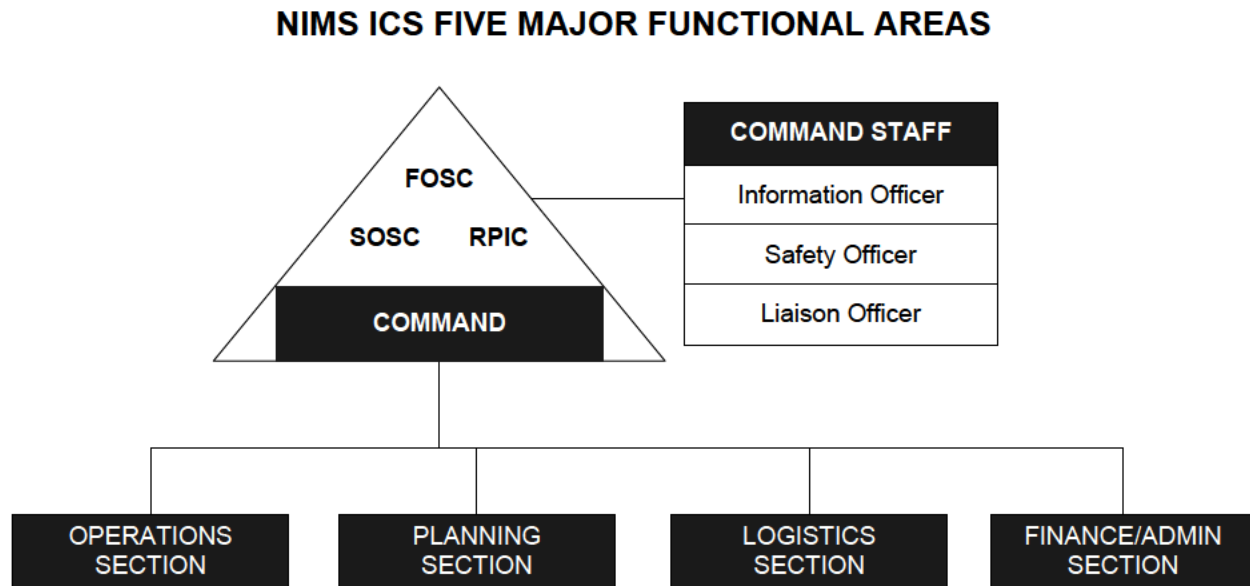
Neighbors		
Neighbors (if impacted or potentially impacted)	ExxonMobil Oil Tank Farm Sun Oil Marine Terminal Port Neches Park Huntsman Corp. (regarding water intake points)	409-757-3047 409-757-3232 409-727-1497 409-721-4843 409-727-0832 409-724-4430
News Media		
Television Stations and Broadcasting Companies	Channel 12, KBMT-ABC Channel 6, KFDM-CBS Channel 4, KBTW-NBC	409-838-1212 409-892-6622 409-985-5557
Local Radio Stations and Broadcasting Companies	KYKR/K106/KKMY & KLVI KAYD/KQXY/KQHN KZZB 990 AM	409-896-5555 409-833-9421 409-833-0990
Utilities		
Southern Union Gas	Emergencies & After Hrs	800-340-3601 800-956-5325 409-963-7107 800-218-8015 or 409-963-7126
Entergy	Power Out-Industrial Chevron Acct. Reps: Wayne Barnett Chuck Hughes	800-340-3601 409-654-2337 800-264-2536 (P) I.D. # 6530 409-785-2451 800-264-2535 (P) I.D. # 1848
Lower Neches Valley Authority (LNVA) (to alert to impact or potential for impact to public drinking water source)	409-892-1805 409-892-4011	24 Hr. Day
Jefferson County Drainage District #7 (to alert to impact or potential for impact to drainage canals)	409-985-4369	
Air Liquide Corporation	713-868-0302 or 713-868-0386	24 Hr.
Kansas City Southern Railroad Company	KCS Dispatcher Days (Beaumont) After Hours (Beaumont)	318-527-9273 409-832-5444 409-832-5442

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****OSRO CONTACT INFORMATION****Regional Contacts**

Company	Locations	Type of Contract	24-Hour Phone	Fax
ES&H	Pasadena, TX	CPL	877-437-2634	281-448-6602
Garner Environmental	Houston, TX LaMarque, TX Port Arthur, TX	CPL	800-424-1716	281-478-0296
Industrial Cleanup, Inc. (ICI)	Garyville, LA Westwego, LA Lafayette, LA Lake Charles, LA	CPL	504-535-2697 504-363-8126	504-535-3262
Ampol	Gulf Coast	CPL	800-842-6765	

National Contacts

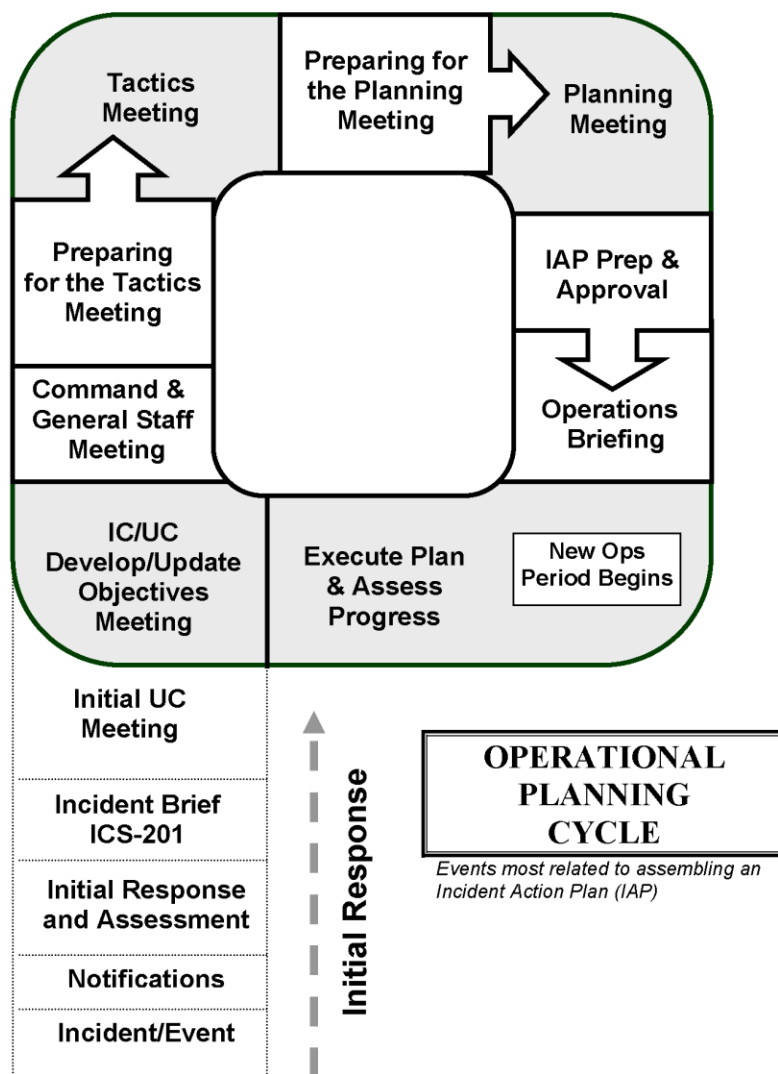
Company	Locations	Type of Contract	24-Hour Phone	Fax
Reidel	Primarily west of Mississippi River.	Chevron	800-334-0004	
MSRC/CGA 980 West Lincoln Road Lake Charles, LA 70605-0635	Lafayette. LA, plus 12 other Gulf Coast locations.	Chevron	318-837-7400 888-242-2700	
Oil Mop, Inc.			800-645-6671	
Clean Gulf Associates (CGA)			888-242-2007	
Marine Spill Response Corporation (MSRC)			888-242-2007	
ES&H			877-437-2634	
Philip Services, Corp.			888-631-9652	
Garner Environmental Services, Inc.			800-975-2444	
Ampol			800-482-6765	

NIMS ICS FIVE MAJOR FUNCTIONAL AREAS

USCG IMH OPERATIONAL PERIOD PLANNING CYCLE GUIDE

AUGUST 2006

CHAPTER 3

OPERATIONAL PLANNING CYCLE, MEETINGS,
BRIEFINGS, AND THE ACTION
PLANNING PROCESS

3-1
OPERATIONAL PLANNING CYCLE OPERATIONAL PLANNING CYCLE

EVACUATION PLANNING

Factors Affecting Evacuation Planning

Factors affecting evacuation planning include:

- Location of stored materials;
- Hazard imposed by spilled material;
- Spill flow direction;
- Prevailing wind direction and speed;
- Water currents, tides, or wave conditions (if applicable);
- Arrival route of emergency response personnel and response equipment;
- Evacuation routes;
- Alternative routes of evacuation;
- Transportation of injured personnel to nearest emergency medical facility;
- Location of alarm/notification systems;
- The need for a centralized check-in area for evacuation validation (roll call);
- Selection of a mitigation command center;
- Location of shelter at the facility as an alternative to evacuation.

Other factors may include:

- Impact or threat of impact off-plant.
- Weather conditions, present and forecasted.
- Ability to isolate and contain, confine, or otherwise mitigate the release.
- Characteristics of oil or hazardous substance (reactivity, flashpoint, corrosivity, toxicity, routes of exposure, lower and upper explosive limits).
- Composition of oil or hazardous substance (hydrogen sulfide and benzene concentrations)
- Proximity of schools and other community centers.
- Traffic control issues.
- Response resources (personnel and equipment) available.

Terminal Evacuation

A terminal evacuation plan is located in the evacuation map located in this Plan. The primary evacuation route is through the Number 1 Gate to Highway 366. Alternate routes, identified in the map, require that a security guard unlock the exit gate. Notification for evacuation is provided by radio and speaker system by the Number 1 Gate Security Guard.

Community Evacuation

In the event community evacuation is required, Jefferson County Emergency Management would be notified. Phone numbers are provided in this Plan.

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

BEAUMONT EVACUATION PLAN

Evacuation Plan - Buildings

Action		Predetermined Assignments
When alarm sounds, take command, you are the Incident Commander (IC).		Employee
Close your office door behind you as you leave. Do not lock it.		All personnel
Direct all personnel and visitors to exit to their assigned area.		
Feel closed exit doors with hand before opening. If hot, use another exit, and instruct others to do the same.		
If there are injured, obtain help and assist the injured to the exit.		
If there is smoke, crawl.		
If you cannot exit through doors, go into an exterior office and instruct others to do the same. Close door and stuff cloth or other materials under the door and into vents to keep smoke from entering the room. If necessary, break the glass to get fresh air and possibly exit.		
Follow posted evacuation routes.		
When you arrive at your assigned area, check to see that all personnel assigned to that area have arrived.		Supervisor and All personnel
Once evacuation has been completed, notify the Shift Supervisor of all safe and accounted for and their location. Note all unaccounted for personnel.		Every supervisor
Check all the assigned assembly areas. Check with Supervisors to see that all personnel assigned to each area have arrived. Note all unaccounted for personnel.		Building Emergency Response Coordinator (See Attached List)
Assembly Areas:	Name of Unaccounted Persons:	
Report any missing persons to the Shift Supervisor or Incident Commander.		
Do NOT allow ANYONE except those under the direction of the Fire Department, Police Department, or Incident Commander to RE-ENTER or approach the building until the “ALL CLEAR” is given by the Incident Commander.		

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****Building Emergency Response Coordinators**

Functional Area	Primary	Alternate
Administration Building	M. Maxwell	J. Tomlin
T & E Building	B. Castleman	W. Guidry
Control Room	Shift Supervisor	
Docks	Shift Supervisor	
Main Gate	Gateman to notify Shift Supervisor	
Shop Areas	Superintendent to notify Shift Supervisor	
Vacuum Service Building	Superintendent to notify Shift Supervisor	
Construction (Field Offices)	Supervisor to notify Shift Supervisor	

Evacuation Plan – Shift Supervisor

Action		Predetermined Assignments
Check all the assigned assembly areas. Check with Supervisors to see that all personnel assigned to each area have arrived. NOTE all unaccounted for personnel.		Shift Supervisor/Building Emergency Evacuation Coordinator
Assembly Areas:	Name of Unaccounted Persons:	Building Emergency Response Coordinator (See Attached List)
Plant S. of Admin. Bldg		
Inside Gate 1		
Gate 15		
Gate 2		
Report any missing persons to the Incident Commander.		Shift Supervisor
Notify customers as needed.		
Do NOT allow ANYONE except those under the direction of the Fire Department, Police Department, or Incident Commander to RE-ENTER or approach the building until the “ALL CLEAR” is given by the Incident Commander.		Shift Supervisor/Emergency Evacuation Coordinator

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

Evacuation Plan - Construction Projects

Action		Predetermined Assignments
Take Command until relieved by a more qualified employee.		Employee/IC Time Log:
Evaluate and Consider: <ul style="list-style-type: none">• Hazardous material involved·• Type of imminent danger• Population at risk·• Time factor to evacuate·• Effects of weather and potential release travel (wind direction)• Ability to communicate to population at risk		IC
Determine area(s) involved and select the safest route to evacuate personnel if it becomes necessary.		Area(s):
Activate the Emergency Notification System and use the radio, word of mouth, or any means available to notify on-site personnel to evacuate, using the safest route and report to the designated assembly area.		
Continually assess the situation.		
If affected by evacuation announcement, leave work areas and proceed to assembly area.		
Follow posted evacuation routes.		
ASSEMBLY AREA: Directly inside Main Gate.		IC
ALTERNATE ASSEMBLY AREA #1: Gate 15 (located at South end of Terminal)		
ALTERNATE ASSEMBLY AREA #2: Gate 2 (located at North end of Terminal)		
Take precautions: <ul style="list-style-type: none">• Be aware of hazards• Monitor wind direction - look at wind sock• Move upwind of the emergency		All Personnel
Once evacuation has been completed, notify the Shift Supervisor of all safe and accounted for and their location. Note all unaccounted for personnel.		Evacuees
Notify the Shift Supervisor.		Every supervisor and designated contractor
Facility	Phone Number:	
Shift Supervisor	409-724-3278	
Incident Commander	409-656-2332	
Main Gate	409-724-3349 or 722-3441 X 0	

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

EMERGENCY ACTION PLAN CONSTRUCTION PROJECT

Job Name Or Location:	AFE Or Work Order Number:	Date Of Plan:
I. Emergency Escape Route		
II. Required Shut-Down Before Evacuation		
III. Post-Evacuation Assembly Area		
All Personnel are to assemble at the following location after evacuation. Use alternate location if necessary.		
IV. Assignment of Duties		
Duty:	Assigned To:	
Coordinate Evacuation (Assemble And Account For Evacuated Employees)		
Notify Shift Supervisor By Radio Channel 1 724-3327 or if no answer 724-3300		
Terminal Emergency Notification No:	3300 or 724-3300 if no answer 3425 Terminal radio can also be used.	Stay on phone until other person hangs up.
Nederland Fire Department	409-722-8262 / 723-1531	
Ambulance	911	
The Medical Center of South East Texas	409-727-2321	

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

Evacuation Plan – Docks

Action		Predetermined Assignments
Take Command until relieved by a more qualified employee.		Employee/IC Time Log:
Evaluate and Consider: <ul style="list-style-type: none">• Hazardous material involved• Type of imminent danger• Population at risk (both employees and public)• Time factor to evacuate• Effects of weather and potential release travel (wind direction)• Ability to communicate to population at risk		IC
Determine area(s) involved and select the safest route to evacuate personnel if it becomes necessary.		Area(s):
Activate the Emergency Notification System and use the radio, word of mouth, or any means available to notify on-site personnel to evacuate, using the safest route and report to the designated assembly area.		IC
Continually assess the situation to determine whether a response, other than evacuation, is appropriate.		
If affected by evacuation announcement, leave work areas and proceed to assembly area.		All Personnel
Follow posted evacuation routes.		Evacuees
ASSEMBLY AREA: Directly outside Main Gate.		
ALTERNATE ASSEMBLY AREA: Gate 15		
Take precautions: <ul style="list-style-type: none">• Be aware of hazards• Monitor wind direction - look at wind sock• Move upwind of the emergency		All Personnel
Once evacuation has been completed, notify the Shift Supervisor of all safe and accounted for and their location. Note all unaccounted for personnel.		Dockman in Charge
Notify the Shift Supervisor.		Every supervisor and designated contractor
Facility	Phone Number:	
Shift Supervisor	409-724-3327	
Incident Commander	409-656-2332	
Main Gate	409-724-3349 or 722-3441 X 0	

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****Evacuation Plan – Gate**

Action	Predetermined Assignments
Primary Assembly Area: Area Plant North of Gate 16 (entrance to Ball Park).	All Personnel
Secondary Assembly Area: Entrance to Sun Terminal on Main Street.	
Once evacuation completed, notify the Shift Supervisor of all safe and accounted for and their location. Note all unaccounted for personnel.	Gateman
Do NOT allow ANYONE except those under the direction of the Fire Department, Police Department, or Incident Commander to RE-ENTER or approach the building until the “ALL CLEAR” is given by the Incident Commander.	All Personnel

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****Evacuation Plan – Gate - Main**

Action	Predetermined Assignments
When notified to evacuate, take command until relieved by a more qualified employee.	Employee/IC Time Log:
Evaluate and Consider: <ul style="list-style-type: none"> • Hazardous material involved • Type of imminent danger • Population at risk (both employees and public) • Time factor to evacuate • Effects of weather and potential release travel (wind direction) • Ability to communicate to population at risk 	Employee/Gateman
Determine area(s) involved and select the safest route to evacuate personnel if it becomes necessary.	Area(s):
If there are injured, obtain help and assist them to the exit.	Employee/Gateman
If you cannot exit through doors, close doors and stuff cloth or other materials under the door and into vents to keep smoke from entering the room.	
If evacuation is necessary, direct all personnel and visitors to exit to the area North of Gate 16 (entrance to the ballpark).	All Personnel
Activate the Emergency Notification System and use the radio, word of mouth, or any means available to notify on-site personnel to evacuate, using the safest route and report to the designated assembly area.	Evacuees
Continually assess the situation to determine whether a response, other than evacuation, is appropriate.	Every supervisor and designated contractor
If affected by evacuation announcement, leave work areas and proceed to assembly area.	All Personnel
Take Precautions: <ul style="list-style-type: none"> • Be aware of hazards • Monitor wind direction - look at wind sock • Move upwind of the emergency if possible 	

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

Evacuation Plan – Gauger’s Office

Action	Predetermined Assignments
Take Command until relieved by a more qualified employee.	Employee/IC Time Log:
Evaluate and Consider: <ul style="list-style-type: none"> • Hazardous material involved. • Type of imminent danger • Population at risk (both employees and public) • Time factor to evacuate. • Effects of weather and potential release travel (wind direction) • Ability to communicate to population at risk 	IC
Determine area(s) involved and select the safest route to evacuate personnel if it becomes necessary.	Area(s):
Activate the Emergency Notification System and use the radio, word of mouth, or any means available to notify on-site personnel to evacuate, using the safest route and report to the designated assembly area.	IC
Continually assess the situation to determine whether a response, other than evacuation, is appropriate.	
If affected by evacuation announcement, leave work areas and proceed to assembly area.	All Personnel
Follow evacuation routes.	Evacuees
Primary Assembly Area: Directly Outside Main Gate.	
Secondary Assembly Area: Gate 15	
Alternate Assembly Area: Gate 2	
Take precautions: <ul style="list-style-type: none"> • Be aware of hazards • Monitor wind direction - look at wind sock • Move upwind of the emergency if possible 	All Personnel
Once evacuation has been completed, notify the Shift Supervisor of all safe and accounted for and their location. Note all unaccounted for personnel.	Gauger

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

Evacuation Plan - Terminal

Action		Predetermined Assignments
Take Command until relieved by a more qualified employee. Your are the Incident Commander.		Employee/IC Time Log:
Evaluate and Consider: <ul style="list-style-type: none">• Hazardous material involved·• Type of imminent danger• Population at risk·(both employees and public)• Time factor to evacuate·• Effects of weather and potential release travel (wind direction)• Ability to communicate to population at risk		IC
Determine area(s) involved and select the safest route to evacuate personnel if it becomes necessary.		Area(s):
Activate the Emergency Notification System and use the radio, word of mouth, or any means available to notify on-site personnel to evacuate, using the safest route and report to the designated assembly area.		IC
Continually assess the situation to determine whether a response, other than evacuation, is appropriate.		
If affected by evacuation announcement, leave work areas and proceed to assembly area. Primary Assembly Area = Gate 15		All Personnel
Take precautions: <ul style="list-style-type: none">• Be aware of hazards• Monitor wind direction - look at wind sock• Move upwind of the emergency		Evacuees
Once evacuation has been completed, notify the Shift Supervisor of all safe and accounted for and their location. Note all unaccounted for personnel.		Every supervisor and designated contractor
Notify the Shift Supervisor (Notify neighboring facilities)		
Facility	Phone Number:	
ExxonMobil Oil Tank Farm	409-722-1968 409-722-5236 409-757-3232	
Sun Oil Marine Terminal	409-727-1497 409-721-4843	

QUALIFIED INDIVIDUALS (QI) RESPONSIBILITIES**Requirements**

The QI must:

- Speak fluent English.
- Be available on a 24-hour basis and be able to arrive at the facility in a reasonable time.
- Be familiar with the implementation of the facility response plan.
- Be trained in the responsibilities of the QI under the response plan.

Duties

QI duties include:

- Activating internal alarms and hazard communication systems to notify all Terminal and SPR Pipeline personnel.
- Notifying all response personnel, as needed.
- Identifying the character, exact source, amount, and extent of the release, as well as the other items needed for notification.
- Notifying and providing necessary information (per Section 2 of this State Appendix) to the appropriate Federal, State, and local authorities with designated response roles, including the NRC, the Texas Emergency Response Commission (TERC), and the Jefferson County Local Emergency Planning Committee.
- Assessing the interaction of the spilled substance with water and/or other substances stored at the facility and notifying response personnel at the scene of that assessment.
- Assessing the possible hazards to human health and the environment due to the release. This assessment must consider both the direct and indirect effects of the release (i.e., the effects of any toxic, irritating, or asphyxiating gases that may be generated, or the effects of any hazardous surface water runoffs from water or chemical agent used to control fire and heat-induced explosion).
- Assessing and implementing prompt removal actions to contain and remove the substance released.
- Coordinating rescue and response actions as previously arranged with all response personnel.
- Using authority to immediately access company funding to initiate cleanup activities.
- Directing cleanup activities until properly relieved of this responsibility.

Authority

All Company Incident Commanders are also considered QIs. QIs are designated with full authority, including contracting authority, to implement removal actions. They have the authority to immediately access company funding to initiate cleanup activities. Each QI has full authority to:

- Activate and engage in contracting with oil spill removal organization(s).
- Act as a liaison with the pre-designated Federal On-Scene Coordinator (OSC).
- Obligate funds required to carry out response activities.

Integration of Response Efforts with Federal, State, and Local Efforts

The response effort will be coordinated with the U.S.C.G, U.S. EPA, U.S. DOT/PHMSA Office of Pipeline Safety, U.S. Fish and Wildlife Service, Texas GLO, TCEQ, Texas Parks and Wildlife Department, and Jefferson County Emergency Management, as appropriate, depending on the location of the discharge, the media impacted, sensitive environments affected or potentially affected, and evacuation, response resource, and community information requirements.

TEXAS STATE APPENDIX

BEAUMONT TERMINAL ERAP

FACILITY EMERGENCY RESPONSE EQUIPMENT

Type	Quantity	Location	Operational Status	Inspection Frequency	Comments
Boom Equipment					
ABASCO Round Boom or equivalent	2400 ft.	Terminal Shore-Line Reels 1 - 4	Ready	Monthly	skirt size - 12" float size - 6" end connector type - US1 time to deploy first 1,000' <1hr
Sorbents					
3M 3MT-270 Boom or equivalent	400 ft.	Warehouse	Ready	Monthly	Synthetic
3M 3M HP-100 Absorbent Pad or equivalent	800 each	Warehouse	Ready	Monthly	Synthetic
Sorbent Products Co. Fiber Pearl Particulate or equivalent	50 bags	Warehouse	Ready	Monthly	Synthetic
Response Boats					
Custom Aluminum (Command Boat) twin)	1	Beaumont Terminal	Ready	Weekly	At Fire Station
Large Flat Bottom	1	Beaumont Terminal	Ready	Weekly	At Fire Station

Fire Response Equipment

Type	Quantity	Effective Rate	Operational Status	Location
Daspt truck with foam tote	1	1500 gpm	Ready	Fire Station
2-1/2" Hose on Truck	5 sections	NA	Ready	Fire Station
1-1/2" Hose on Truck	6 sections	NA	Ready	Fire Station
2-1/2" Hose	15 sections	NA	Ready	Fire Station
1-1/2" Hose	24 sections	NA	Ready	Fire Station

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****Immediate Actions**

The following steps will be taken when an incident occurs:

- Safely secure the site and safely respond to emergencies
- Safely remedy immediate causes
- Make appropriate notifications, depending on severity
- Implement the Incident Command System
- Complete a Job Site Safety Plan

A simplified table of immediate actions is provided below. The first action is always to notify Gate Number 1. No action should be conducted unless it can be done safely and after donning appropriate personal protective equipment.

Oil Spill Response - Immediate Actions

1. Warn personnel and stop the product flow	Act quickly to secure pumps, close valves, etc., and enforce safety and security measures
2. Shut off ignition sources	Motors, electrical circuits, open flames, etc.
3. Protect sensitive areas and initiate containment	Around the tank or pipeline and/or in the water with oil boom Area Contingency Plan
4. Make notifications	Section 2 of the Texas State Appendix

Secure the Site and Respond to Emergencies

Personnel secure the site to isolate the area from personnel, and notify the Number 1 Gate Security Guard to issue personnel warnings.

Warning Personnel and Notifying Response Team

The emergency response communication system is used by the Number 1 Gate Security Guard to notify personnel by radio and through phone notification system of isolated or restricted areas, work stoppages, and evacuations. An “all-clear” is sounded following the event.

The gate personnel will also activate ERS using the procedures outlined in this Plan.

Shutting Off Ignition Sources

- Hot work, such as welding and brazing, is terminated in the isolated area or the entire terminal, as appropriate, as soon as a spill situation is identified.
- Smoking is not allowed in the terminal except in designated areas.
- Electrical ignition sources in the isolation area are identified by the Terminal Foreman, Utilities and deactivated if they pose a risk.
- Only intrinsically safe monitoring equipment is used during the reconnaissance and response.

Equipment Shutdown Sequence

The operator actions for shutdown are listed below.

Failure of Transfer Equipment

- Shutdown energy sources (pumps)
- Block transfer line(s) or hose(s)
- Activate the IRT and OSRO(s), as appropriate
- Remove spilled oil from the containment area by vacuum truck
- If spill is to water, deploy containment boom at direction of IC/Area Contingency Plan

Tank Overfill and Tank Failure

- Shutdown energy sources
- Block transfer line to the tank
- Pump down tank or gravitate to other tank
- Activate the IRT and OSRO(s), as appropriate
- Remove spilled oil from the dike area by vacuum truck
- If spill is to water, deploy containment boom at direction of IC/Area Contingency Plan

Pipeline Rupture, Leak, and Equipment Failure

- Shutdown energy sources
- Isolate the line by blocking the appropriate valves
- Activate the IRT and OSRO(s), as appropriate
- In areas without containment, sandbag
- Remove spilled material by vacuum truck
- If spill is to water, deploy containment boom at direction of IC/Area Contingency Plan

The maximum time to perform detection and throughput shutdown in adverse weather for SPR Pipeline is essentially immediate, since an automated system activates shutdown upon detection of high or low pressure.

Explosion and/or Fire

The responder will survey the situation in order to decide whether trained personnel should attempt to put out the fire. This assessment will consider:

- Type of material involved
- System pressure
- Location of the leak
- Size of the leak/fire
- Is the fire impinging on a tank or any other equipment?

TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP**

- Is the fire in an incipient stage? An incipient stage fire is a fire that can be extinguished with a 10-pound dry chemical extinguisher and the leak can be controlled until its source can be isolated.
- Is the leak controllable? The leak is controllable if the responder is able to keep vapors dispersed and hot surfaces cooled with steam or water. This must be the responder's decision based on experience and the situation. If any doubt exists as to the safety of the action necessary to extinguish, then the responder should cool the equipment (from a distance), isolate the source, and wait for the ERT.

If the responder decides to contain the fire:

- Cool the surrounding equipment and keep the fire from spreading using nearest hose reel
- Remain at a safe distance
- Block-in any systems or pump that may be feeding the fire

If the responder decides to put out the fire and reduce fire spread:

- Ensure that water protection is available
- Extinguish, cool, control, and isolate the fire with a dry chemical extinguisher once water protection is available

Dry chemical fire extinguishers can be used to extinguish (remember that dry chemical extinguishers do not provide any cooling):

- Trash fires
- Scaffold board fires
- Spill fires
- Hydrocarbon fires that can be extinguished with a 10-pound chemical unit

Examples of fires that should not be extinguished with a fire extinguisher are:

- Fires in areas that are confined and do not allow proper escape due to limited water protection
- Fires where the source is under such pressure that too many vapors would be released before the source could be blocked
- Fires which are too large to extinguish with one 10-pound dry chemical extinguisher, for example, electrical or substation fires

Remedy Immediate Causes

The primary objective in every case is to prevent entry of oil into the Neches River, the KCS Ditch, and Verner's Slough. In the event that oil does enter navigable waters, diversionary techniques, such as boom deployment, are used to prevent entry of the oil into the environmentally sensitive areas.

Pre-Entry Requirements

Monitoring

Prior to conducting any actions in the isolated area, and after considering Safety Conditions monitoring will be conducted for the appropriate parameters, including, but not limited to:

- Oxygen, percent
- Lower explosive limit, percent
- Total petroleum hydrocarbons
- Total benzene or aromatics
- Hydrogen Sulfide
- Any other monitoring as needed to protect against the possible exposures

The area will also be assessed to determine any physical hazards, such as confined spaces, grounding, electrical hazards, and trip hazards.

Minimum personal protective equipment (PPE) used during monitoring and reconnaissance is Level B, supplied air and a suit for body protection. For all response activities, minimum PPE includes:

- Hard hat
- Eye protection (including side shields)
- Steel-toed boots
- FRC

Health and Safety Plan

Based on the monitoring data, a Health And Safety Plan will be prepared by the Safety Officer or his designee. An example the Job Site Safety Plan is provided in the Core Plan, Section 7.

Terminal Evacuation Plan

(b) (7)(F), (b) (3)



TEXAS STATE APPENDIX**BEAUMONT TERMINAL ERAP****Terminal Drainage Plot Plan**

(b) (3), (b) (7)(F)

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

FRONT POCKET INFORMATION

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****FRONT POCKET INFORMATION**

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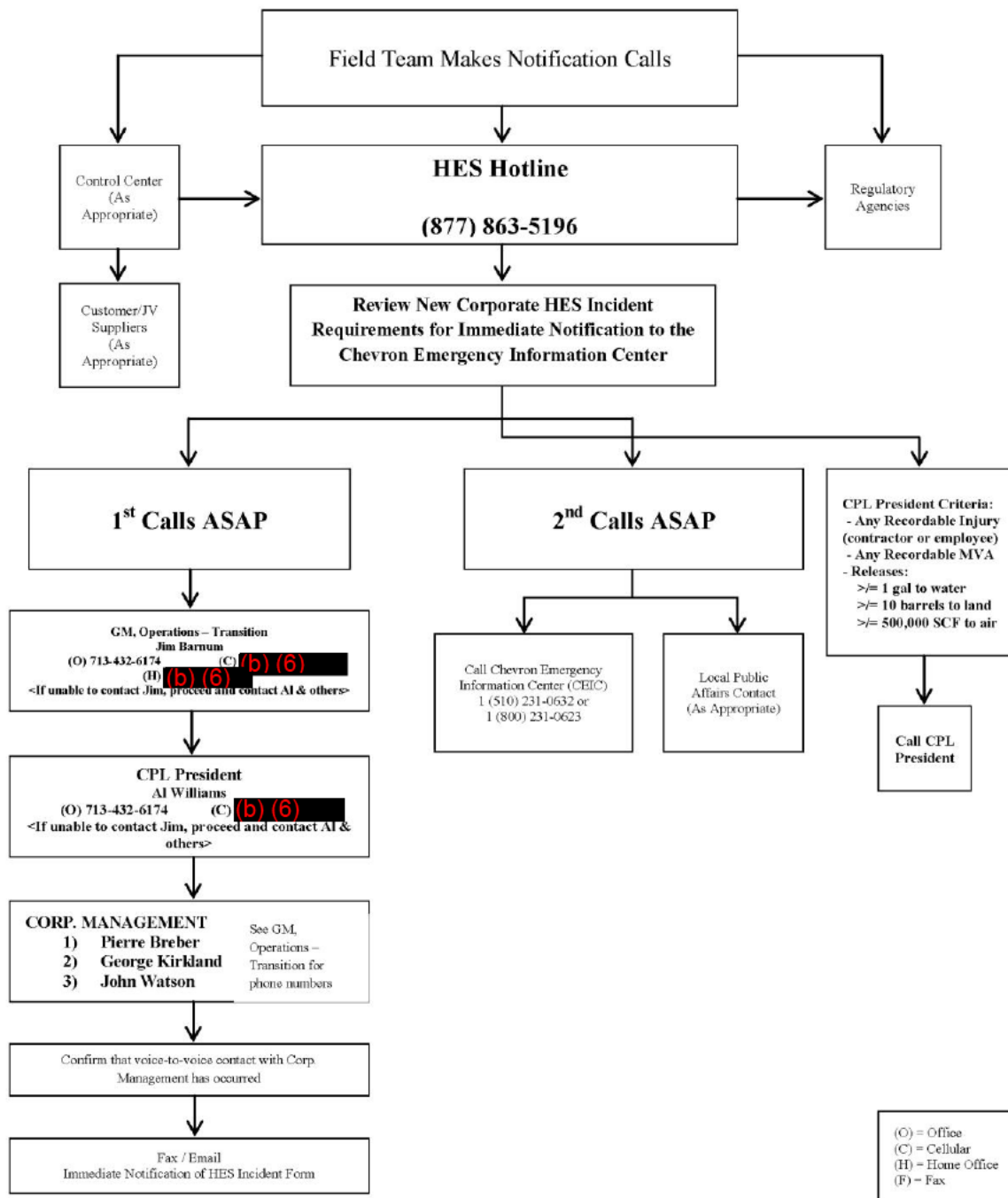
FRONT POCKET INFORMATION

Company Emergency Response Plan

Texas Response Zone

DOT/PHMSA Control # 217
Beaumont Terminal EPA Docket No. FRP-06-TX-00197

INTERNAL HES NOTIFICATION FLOWCHART

CHEVRON PIPE LINE CORPORATION MANAGEMENT
INTERNAL HES NOTIFICATION FLOWCHART

HES Hotline Staff Member contacted will become the Incident Contact who will perform the initial and update communications during the emergency unless relieved

- The Incident Contact has the responsibility to contact a person in each applicable box of the next level of the notification chain
- Fax and/or Email Emergency Notification to A. Williams, J. Patry, P. Breber, G. Kirkland and Local Public Affairs

Revised 05/2014

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

INCIDENTS REQUIRING IMMEDIATE INTERNAL CORPORATE MANAGEMENT NOTIFICATION

Note: Internal Corporate Notification information only, not synonymous with Federal or State spill reporting Notifications Criteria located elsewhere in this Plan.

Incidents Requiring Immediate Notification to Corporate Management

Highlighted Fields Indicate Reporting Requirements of a More Stringent Nature Within and Through the Chevron Gas & Midstream Organization

Incident Type	CG&M SBU* President or VP	CG&M President	Corp Emergency Response Staff and VP, HES	Reporting Officer and Chairman
Work-related fatality of employee, contractor, or third party	M	M	M	M
Work-related recordable injuries of employee, contractor, or third party	M	M		
Incidents resulting in multiple employee, contractor, or third party overnight hospitalization; (except for observation only)	M	M	M	M
Petroleum or petroleum product spills equal to or greater than 1 gallon and less than 1 barrels to water	M			
Petroleum or petroleum product spills equal to or greater than 1 barrels and less than 50 barrels to water	M	M		
Petroleum or petroleum product spills greater than 50 barrels to water	M	M	M	M
Petroleum or petroleum product spills greater than 10 barrels and less than 500 barrels to land	M	M		
Petroleum or petroleum product spills greater than 500 barrels to land	M	M	M	M
Any incident that attracts international or broad USA media coverage	M	M	M	M
Any incident that attracts significant local media coverage	M	M	M	R
Natural disaster, political unrest, civil disturbance, or other situations that threatens safety, health, or welfare of employees or contractors	M	M	M	R
Incidents resulting in the need for employees or public to shelter-in-place or evacuate	M	M	M	R
Release of Produced Gas, Natural Gas, or LPG greater than 500,000 SCF and less than 10 MMSCF or that presents fire/explosion hazard to populated area	M			
Release of Produced Gas, Natural Gas, or LPG greater than 10 MMSCF or that presents fire, explosion hazard to populated area	M	M	M	R
Any release of LNG that is reported to government agencies, or attracts, or is expected to attract media attention, or involves a vessel incident	M	M	R	R
Chemical release to land, water, or air greater than 8000 Kg or that threatens human safety or health or adverse impact to environment	M	M	M	R
Fire, explosion, well blowout or other incident damaging Company and/or third party assets with costs likely to exceed \$500,000 for physical damage, loss of product or production, and incident response	M	M	M	R
Note: kidnapping and ransom				

See CVX Corporate Security Guidelines

Note:

M = Mandatory (Phone call via operating chain preferred for initial notification. Details can follow via email or fax)

R = Recommended

20110530Upward Notification Require doc

*SBUs may have requirements that differ for what is reportable to their management

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****IMMEDIATE NOTIFICATION OF HES INCIDENT INFORMATION FORM**

To be used when Upward Notification by telephonic and e-mail communication methods are either unable to be performed or prove unsuccessful.

Business Unit:		Location:	
Person Making Notification:	Local Date and Time of Notification:	Contact Number:	
Type of Incident: <input type="checkbox"/> Fatality <input type="checkbox"/> Spill/Release <input type="checkbox"/> Injuries <input type="checkbox"/> National/Significant Local News Coverage <input type="checkbox"/> Other Significant HES Incident _____			
Local Date and Time of Incident:			
Description of Incident/Name of Oil Involved/Estimated Volume of Oil Spilled:			
Injuries:			
Actions Taken or Planned:			
Assistance Required:			
Media Attention:			
Other Information, Including Weather Conditions:			
Corp ERS Team Member Taking Report:			

Fax: 1-510-242-3787

E-mail: ceichl@chevron.com

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****EMERGENCY NOTIFICATION TO MANAGEMENT FAX****EMERGENCY
NOTIFICATION TO
MANAGEMENT FAX**

From:

Chevron Pipe Line Company
4800 Fournace Place
Bellaire, TX 77401

Phone: () -

Fax: (713) 432-3477

Date:

Pages 2

ChevronMr. Al Williams (CPL President)
Mr. George Kirkland (Vice Chairman)
Mr. Pierre Breber (Chevron President)At: (AWilliams@Chevron.com)
(GLKirkland@Chevron.com)
(PBreber@Chevron.com)

CEICHL

(800) 231-0623 (CEICHL)

Remarks: ☐ Urgent ☐ Please Confirm Receipt ☐ Reply ASAP

CPL Emergency Incident Contact is: _____

Phone Number: _____

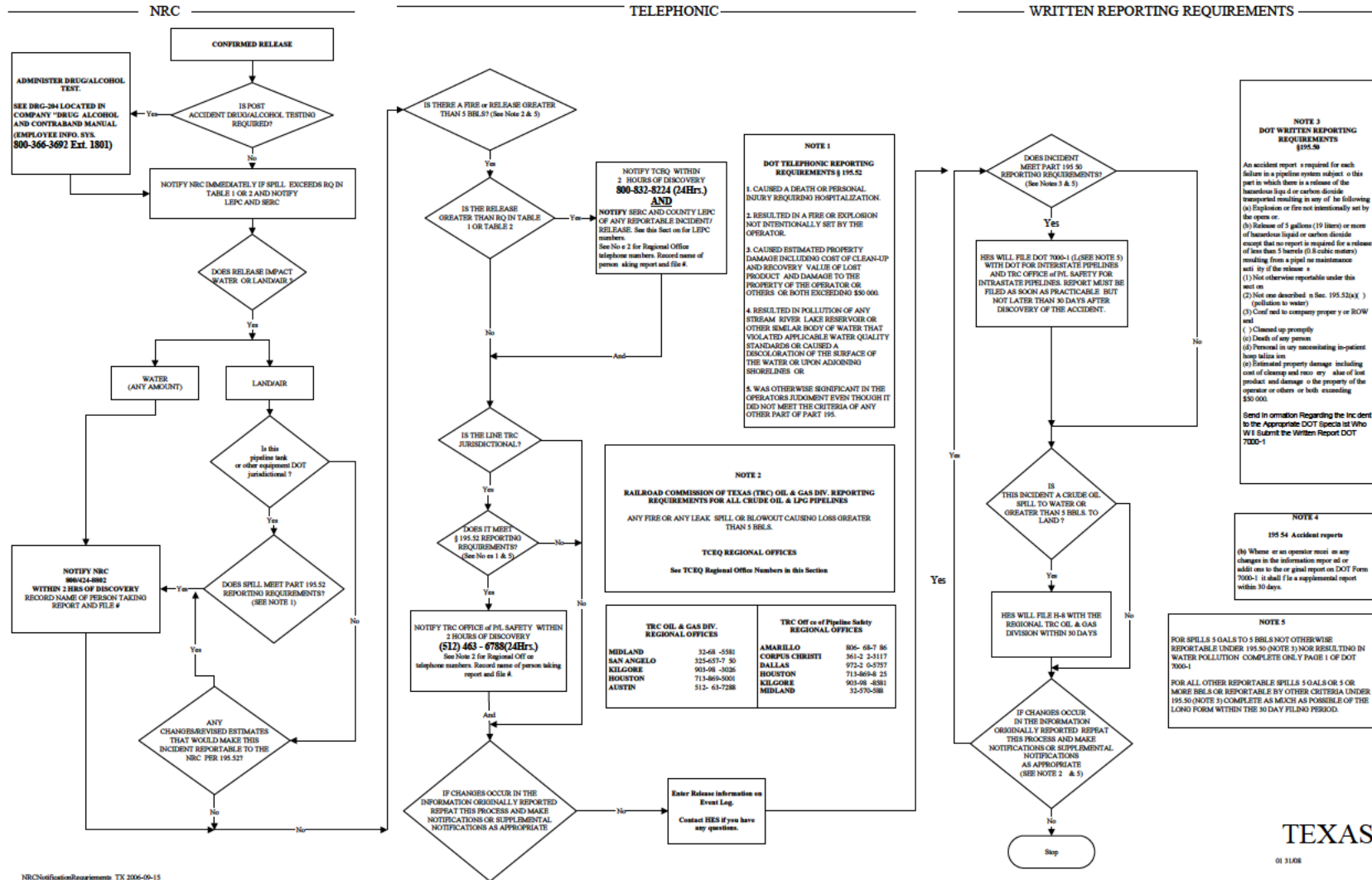
Revised: 06/01/14

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

NRC, TELEPHONIC AND WRITTEN REPORTING REQUIREMENTS

TEXAS



TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

TEXAS RELEASE NOTIFICATIONS

TEXAS RELEASE NOTIFICATIONS	
State Agencies	
Note: The RQ for spills or discharges directly into water in the state is the quantity sufficient to create a sheen.	
Release to Land/Air/Water (Note: The 24 hour 800-832-8224 number is considered approved notification for GLO, TRC Oil and Gas and TCEQ. Calling this number does not count as approved notification for TRC Office of Pipeline Safety. The Pipeline Safety number is listed below.)	
Texas Railroad Commission (TRC) Oil & Gas Division (Immediately notify for all crude oil, petroleum based products and LPG releases greater than 5 bbls or any fire, leak, spill or blowout causing loss of life) TRC jurisdiction includes all intrastate onshore pipelines as well as intrastate pipelines originating in Texas waters (defined as up to 9 miles offshore). Note: Refer to page 13 of this Section for special reporting for underground storage of gas, liquid and liquefied petroleum gas in salt formations.	(800) 832-8224 24 Hrs (713) 869-5001 8a – 5p
Texas Commission on Environmental Quality (TCEQ) (Notify within 2 hours of discovery if the DOT reporting requirements are met)	(800) 832-8224 24 Hrs
Texas Railroad Commission (TRC) Office of Pipeline Safety (lines jurisdictional to TRC within 2 hours of discovery) TRC jurisdiction includes all intrastate onshore pipelines as well as intrastate pipelines originating in Texas waters (defined as up to 9 miles offshore).	(512) 463-6788
Counties affected: See LEPC pages to follow Notify of any RQ Incident which impacts the public (all air releases are included) and all spills or discharges that enter or threaten to enter water.	
Texas General Land Office (GLO) Notify Texas GLO of any unauthorized discharge of oil that impacts or potentially impacts state waters (up to 9 miles offshore). An unauthorized discharge is a discharge of oil potentially harmful to the environment or public health or presents a danger to public health or welfare. A quantity of oil sufficient to either create a visible film or sheen upon or discoloration of the surface water or a shoreline, tidal flat, beach or marsh or to cause a sludge or emulsion to be deposited beneath the surface of the water or on a shoreline, tidal flat, beach or marsh is reportable.	(800) 832-8224 24 Hrs

DOT SPECIALIST NOTIFICATIONS

DOT Specialist Notifications		
Note: In addition to following the HES Notifications Flowchart and making the required agency notifications above and below, notify the appropriate DOT Specialist when any of the following occurs: Spill, Releases, MVC's involving company operated commercial vehicles and may incident involving an OQ covered task. DOT Specialists geographic area and telephone numbers are listed below:		
Name	Phone #	Area of Responsibility
Randy Burke	281-451-7537	Texas – Shares the responsibility for Colorado, Utah.
Henry Leger	337-654-8915	Louisiana, Mississippi, Alabama as well as the following entities extending into the state of Texas: Chevron Petrochemical Pipeline, LLC & Sabine Pipe Line, LLC.
Garrett Parker	713-598-0613	Shares responsibilities for Utah, and Texas, Louisiana, Mississippi, Alabama as well as the following entities extending into the state of Texas: Chevron Petrochemical Pipeline, LLC & Sabine Pipe Line, LLC.
Gary Saenz	281-450-5523	California – Shares the responsibility for Colorado, Utah.
Jeff Richardson	713-628-6319	California – Shares the responsibility for Colorado, Utah, Texas, and Louisiana.

NATIONAL RESPONSE CENTER (NRC)	
800-424-8802	
Notify the NRC for any release to water. Refer to additional NRC requirements in the NRC Reporting Section of this document.	

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

BSEE INCIDENT REPORTING (OCS WATERS)

BSEE INCIDENT REPORTING (OCS WATERS)	
800 424-8802	
Release to Water or Air = / > 3 miles offshore (OCS waters) (within 1 hour)	
BSEE (OCS waters) 800-424-8802 (NRC) Plus BSEE District Offices as needed Mandatory call for any spill = / > 1 barrel to water = / > 3 miles offshore	
Note: Notify BSEE GOMR Pipeline Section if spill is related to OCS pipeline activities Office (504) 736-2814 / Fax (504) 736-2408 / Cell (b) (6) = / < 10 bbls make notification by Fax to BSEE District Office (listings in this Section) > 10 bbls make notification to BSEE GOMR Office by telephone at 504-736-0557 (8 am–5 pm) Notify BSEE if you discover an oil spill whether it's originating from your facility or another offshore facility or if it is a spill of unknown origin which could be expected to equal or exceed 1 bbl.	

BSEE GOMR District Office Contact Information

Office	Mailing Address	Office	Fax	Cell
New Orleans District	990 N. Corporate Drive Suite 100 New Orleans, LA 70123-3392	(504) 734-6740 or (504) 736-6742	(504) 734-6741	(b) (6)
Houma District	3804 Country Drive Post Office Box 760 Bourg, LA 70343-0760	(985) 853-5884	(985) 879-2738	
Lafayette District	201 Energy Parkway Suite 410 Lafayette, LA 70508	(337) 289-5100	(337) 354-0008	
Lake Charles District	620 Esplanade Street Suite 200 Lake Charles, LA 70607-2984	(337) 480-4600	(337) 477-9889	
Lake Jackson District	Oak Park Center 102 Oak Park Drive, Suite 200 Clute, TX 77531	(979) 238-8121	(979) 238-8122	
Pipeline Section	Mail Stop 52321201 Elmwood Park Blvd New Orleans, LA 70123-2394	(504) 736-2814	(504) 736-2408	

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****GAS PIPELINE RELEASES**

<p>Texas Railroad Commission</p> <p>Although CPL gas pipelines in Texas are interstate pipelines, notify the Texas Railroad Commission of:</p> <p>Accidents involving \$5,000 property damage, a fatality or injuries, gas ignition, or that are judged significant must be reported by telephone within two hours, and the written report filed within thirty (30) days.</p> <p>Per the Railroad Commission, examples of releases that are judged to be significant include but are not limited to a segment of pipeline that becomes out of service due to a release and results in road closure, building closure or evacuation.</p>	<p>(800) 832-8224 24 Hrs</p>
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NATIONAL RESPONSE CENTER**National Response Center (NRC) 1-800-424-8802**

For oil spills, liquid pipeline releases, gas pipeline releases, other releases as defined below:

All Spills

- Any release to water

Liquid Pipeline Releases

At the earliest practicable moment following discovery of a release of the hazardous liquid or carbon dioxide transported resulting in an event described in Sec. 195.50, the operator of the system shall give notice, in accordance with this section, of any failure that:

- Caused a death or a personal injury requiring hospitalization;
- Resulted in either a fire or explosion not intentionally set by the operator;
- Caused estimated property damage, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000;
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines; or
- In the judgment of the operator was significant even though it did not meet the criteria of any other paragraph of this section.

Reports made under this paragraph must be made by telephone to the National Response Center at 800-424-8802 or 202-267-2180 and must include the following information:

- Name and address of the operator.
- Name and telephone number of the reporter.
- The location of the failure.
- The time of the failure.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Telephonic Notification to NRC – Continued**Gas Pipeline Releases**

Per DOT, Gas means natural gas, flammable gas, or gas which is toxic or corrosive;

Incident means any of the following events:

- An event that involves a release of gas from a pipeline or of liquefied natural gas, liquefied petroleum gas, refrigerant gas, or gas from an LNG facility and that results in one or more of the following consequences:
 - (i) A death, or personal injury necessitating in-patient hospitalization;
 - (ii) Estimated property damage of \$50,000 or more, of the operator or others, or both, but excluding cost of gas lost;
 - (iii) Unintentional estimated gas loss of three million cubic feet or more;
- (2) An event that results in an emergency shutdown of an LNG facility. Activation of an emergency shutdown system for reasons other than an actual emergency does not constitute an incident.
- (3) An event that is significant, in the judgment of the operator, even though it did not meet the criteria of paragraphs (1) or (2) of this definition.

At the earliest practicable moment following discovery, each operator shall give notice of each incident as defined above.

Each notice shall be made by telephone to 800-424-8802 and shall include the following information:

- Names of operator and person making report and their telephone numbers.
- The location of the incident.
- The time of the incident.
- The number of fatalities and personal injuries, if any.
- All other significant facts that are known by the operator that are relevant to the cause of the incident or extent of the damages.

Chemical Spills to Land or Air

- Chemical release that exceeds the RQ.

REPORTING INFORMATION FOR UNDERGROUND STORAGE OF GAS, LIQUID OR LIQUEFIED HYDROCARBONS IN SALT FORMATIONS

Report any pollution to the Railroad Commission of Texas District Office.

Pollution is defined as an alteration of the physical, chemical, or biological quality of, or the contamination of, water that makes it harmful, detrimental, or injurious to humans, animal life, vegetation, or property, or to public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.

Notification of Emergency or Uncontrolled Release

Each operator shall notify the county sheriff's office, the county emergency management coordinator, and any other appropriate public officials, which are identified in the emergency response plan, of any emergency that could endanger nearby residents or property. Such emergencies include, but are not limited to, an uncontrolled release of hydrocarbons from a storage well, or a leak or fire at any area of the storage facility. The operator shall give notice as soon as practicable following the discovery of the emergency. At the time of the notice, the operator shall report an assessment of the potential threat to the public.

The operator shall report to the appropriate Commission District Office as soon as practicable any emergency, significant loss of fluids, significant mechanical failure, or other problem that increases the potential for an uncontrolled release. The operator shall file with the Commission within 30 days of the incident a written report on the cause of the incident. The operator shall file with the Commission within 90 days of the incident a written report that describes the operational changes, if any, that have been or will be implemented to reduce the likelihood of a recurrence of a similar incident. An operator may request that the Commission grant, for good cause, a reasonable amount of additional time to file a written report on the cause of the incident.

Railroad Commission Oil and Gas Division District Offices

District Number	Location	Phone Number
Districts 01&02	San Antonio, TX	210-227-1313
District 03	Houston, TX	713-869-5001
District 04	Corpus Christi, TX	361-242-3113
District 05&06	Kilgore, TX	903-984-3026
District 7B	Abilene, TX 79603	325-677-3545
District 7C	San Angelo, TX	325-657-7450
District 08&8A	Midland, TX	432-684-5581
District 09	Wichita Falls, TX	940-723-2153
District 10	Pampa, TX	806-665-1653

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****Other Contact Information**

Notify of any RQ incident or any incident which impacts the public (all air releases are included). See LEPC pages to follow:	
1. Your LEPC (Local Emergency Planning Committee) See listings to follow.	
AND	
2. The SERC (The State Emergency Response Commission), care of: Department of Public Safety, Emergency Response Center (800) 832-8224 (24 hour number)	
For reportable CERCLA chemical spills, also notify:	
3. The NRC (National Response Center) 800-424-8802	4. The TCEQ (Texas Commission on Environmental Quality Commission) Pollution Cleanup Division 800-832-8224 (24 hour number) or contact the appropriate regional office of TCEQ

Courtesy Calls

Port Arthur US Coast Guard COTP	409-723-6500
Galveston US Coast Guard COTP	409-978-2700
TCEQ Regional Offices	See Following Page

Additional Phone Numbers

Wildlife Rehab & Education Oiled Wildlife Response	Phone 281-332-8319 Pager 713-279-1417 or 281-418-8100
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TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****TCEQ REGIONAL OFFICES**

Region	Location	Phone Number
TCEQ Region 1	Amarillo	806-353-9251
TCEQ Region 2	Lubbock	806-796-7092
TCEQ Region 3	Abilene	325-698-9674
TCEQ Region 4	Dallas / Fort Worth	817-588-5800
TCEQ Region 5	Tyler	903-535-5100
TCEQ Region 6	El Paso	915-834-4949
TCEQ Region 7	Midland	432-570-1359
TCEQ Region 8	San Angelo	325-655-9479
TCEQ Region 9	Waco	254-751-0335
TCEQ Region 10	Beaumont	409-898-3838
TCEQ Region 11	Austin	512-339-2929
TCEQ Region 12	Houston	713-767-3500
TCEQ Region 13	San Antonio	210-490-3096
TCEQ Region 14	Corpus Christi	361-825-3100
TCEQ Region 15	Harlingen	956-425-6010
TCEQ Region 16	Laredo	956-791-6611

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

REPORTABLE QUANTITIES FOR CERCLA

Rev 09/19/06

Table 1 - Reportable Quantities for TX CERCLA

If <u>this</u> Amount is Released:	Of This Product	Reportable Substance Report to TCEQ if substances have been exceeded.	CERCLA RQ
2 Gal (10 lbs)	1,3 Butadiene	1,3 Butadiene	1,3 Butadiene = 10 lbs
1 gallon (10 bls)	Benzene	Benzene	Benzene = 10 lbs
9 bbl (1,977 lbs)	B-B Mix (butane-butylene)	1,3 Butadiene	1,3 Butadiene = 10 lbs
2 Gal (10 lbs)	Butadiene Feedstock	1,3 Butadiene	1,3 Butadiene = 10 lbs
1 gallon (10 lbs)	Chlorine	Chlorine	Chlorine = 10 lbs
154 Gal (1000 lbs)	Cyclohexane	Cyclohexane	Cyclohexane = 1,000 lbs
3 Gal (22 lbs)	Depentanizer Bottoms	Benzene	Benzene = 10 lbs
5.5 bbl (1,660 lbs)	Depentanizer Bottoms	Benzene, & p-xylene	PX = 100 lbs
9 bbl (2,763 lbs)	Depentanizer Bottoms	Benzene, p-xylene, & toluene	Toluene = 1,000 lbs
54 bbl (16,443 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, & m-xylene	MX = 1,000 lbs
66 bbl (19,986 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, & ethylbenzene	EB = 1,000 lbs
154 bbl (35,574 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, & n-hexane	Hexane = 5,000 lbs
162 bbl (49,941 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, n-hexane, & o-xylene	OX = 1,000 lbs
13 bbl (5,000 lbs)	Ethylene glycol	Ethylene glycol	Ethylene glycol = 5,000 lbs
6 bbls (1,827 lbs)	HAD	Xylene	Xylene = 100 lbs
30 bbls (12,033 lbs)	HAD	Xylene & Napthalene	Napthalene = 100 lbs
32 bbls (9,690 lbs)	HAD	Xylene, Napthalene & Ethylbenzene	EB = 1,000 lbs
2 Gal (14 lbs)	HPG	Benzene	Benzene = 10 lbs
4 bbls (1,218 lbs)	HPG	Benzene & Xylene	Xylene = 100 lbs
13 bbls (3,991 lbs)	HPG	Benzene, Xylene & Toluene	Toluene = 1,000 lbs
40 bbls (12,112 lbs)	HPG	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
1075 bbls (248,325 lbs)	HPG	Benzene, Xylene, Toluene, Ethylbenzene & n-hexane	Hexane = 5,000 lbs
11 gallons (100 lbs)	Diethanol Amine (pure DEA)	Diethanol Amine (DEA)	DEA = 100 lbs
1 bbl (241 lbs)	Isoprene	Isoprene	Isoprene = 100 lbs
2 bbls (439 lbs)	Isoprene	Isoprene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
215 bbls (49,665 lbs)	Isoprene	Isoprene, 1,3 Butadiene & Hexane	Hexane = 5,000 lbs
2 Gal (14 lbs)	Light Blending Aromatic	Benzene	Benzene = 10 lbs
3 bbls (913 lbs)	(Pascagoula)	Benzene & Xylene	Xylene = 100 lbs
6 bbls (1,842 lbs)	Light Blending Aromatic	Benzene, Xylene, & Toluene	Toluene = 1,000 lbs
65 bbls (19,683 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
430 bbls (99,510 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene, Ethylbenzene, & Hexane	Hexane = 5,000 lbs
18 bbl (5,000 lbs)	Methanol	Methanol	Methanol = 5,000 lbs
6 bbls (1,844 lbs)	Raffinate	Benzene	Benzene = 10 lbs
22 bbls (6,652 lbs)	Raffinate	Benzene & Xylene	Xylene = 100 lbs
109 bbls (33,465 lbs)	Raffinate	Benzene, Xylene, & Toluene	Toluene = 1,000 lbs
215 bbls (49,755 lbs)	Raffinate	Benzene, Xylene, Toluene, & Hexane	Hexane = 5,000 lbs
327 bbls (99,022 lbs)	Raffinate	Benzene, Xylene, Toluene, Hexane & Ethylbenzene	EB = 1,000 lbs
2 Gal (14 lbs)	RPG	Benzene	Benzene = 10 lbs
38 Gal (198 lbs)	RPG	Benzene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
3 bbls (907 lbs)	RPG	Benzene, 1,3 Butadiene & Xylene	Xylene = 100 lbs
4 bbls (954 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene & Isoprene	Isoprene = 100 lbs
33 bbls (9,993 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Isoprene, Toluene, & Ethylbenzene	EB = 1,000 lbs
65 gallons (1,000 lbs)	Sulfuric Acid	Sulfuric Acid	Sulfuric Acid = 1,000 lbs
161 gallons (1,000 lbs)	MTBE	MTBE	MTBE = 1,000 lbs

REPORTABLE QUANTITIES FOR CERCLA – CONTINUED

Under the CERCLA regulations the term hazardous substance does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) (listed above) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). **Texas Table 3 (to follow) still applies.**

For CPL this means the following products are excluded from CERCLA definition of a hazardous substance, LPG and all fractions of (methane, propane, etc.). Natural Gas, Natural Gas Liquids, Refined Products (gasoline, diesel, jet fuel ect.) and Crude Oil.

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

REPORTABLE QUANTITIES FOR TCEQ AIR REGS/LEPC RPTG

Rev 09/19/06	Table 2 = Reportable Quantities for TCEQ Air Regs/LEPC RPTG		
Table 2 RQ's for Texas.xls			
If you are in the following counties use Table 3:			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange or Jefferson			
IF This Amount is Released:	Of This Product	Reportable Quantity Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
2 Gal (10.5 lbs)	1,3 Butadiene	1,3 Butadiene	1,3 Butadiene = 10 lbs
2 Gal (10.5 lbs)	Butadiene Feedstock	1,3 Butadiene	1,3 Butadiene = 10 lbs
34 bbl (7,030 lbs)	Butadiene Feedstock	1,3 Butadiene & butenes	Butenes = 5,000 lbs
37 bbl (7,650 lbs)	Butadiene Feedstock	1,3 Butadiene, butenes & butanes	Butanes = 5,000 lbs
9 bbls (3,969 lbs)	Butane	1,3 Butadiene	1,3 Butadiene = 10 lbs
24 bbls (4,962 lbs)	Butane	1,3 Butadiene and Butane	Butanes = 5,000 lbs
150 bbls (33,138 lbs)	Butane	1,3 Butadiene, Butane & Pentane	Pentane = 5,000 lbs
9 bbl (1,977 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene	1,3 Butadiene = 10 lbs
32 bbl (7,069 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene & butanes	Butanes = 5,000 lbs
44 bbl (9,097 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene, butanes & butenes	Butenes = 5,000 lbs
153 bbl (33,228 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene, butanes, butenes & iso-pentane	Isopentane = 5,000 lbs
175 bbls (51,670 lbs)	Crude Oil (9% volatile)	Crude Oil	Crude Oil
	Benzene (.2% volatile)	Benzene 10#	Benzene = 10 lbs
25 bbls (10,418 lbs)	Sour Crude (H2S 2.3%)	Hydrogen Sulfide	H2S = 100 lbs
3 Gal (22 lbs)	Depentanizer Bottoms	Benzene	Benzene = 10 lbs
5 bbl (1,660 lbs)	Depentanizer Bottoms	Benzene, & p-xylene	PX = 100 lbs
9 bbl (2,763 lbs)	Depentanizer Bottoms	Benzene, p-xylene, & toluene	Toluene = 1,000 lbs
54 bbl (16,443 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, & m-xylene	MX = 1,000 lbs
66 bbl (19,986 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, & ethylbenzene	EB = 1,000 lbs
154 bbl (35,574 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, &	Hexane = 5,000 lbs
162 bbl (49,941 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, n-hexane, & o-xylene	OX = 1,000 lbs
29 bbl (5,152 lbs)	Ethane (Enterprise)	Ethane	Ethane = 5,000 lbs
562 bbl (99,844 lbs)	Ethane (Enterprise)	Ethane & Propane	Propane = 5,000 lbs
43 bbls (7,639 lbs)	Ethane/Propane Mix	Ethane	Ethane = 5,000 lbs
94 bbls (16,700 lbs)	Ethane/Propane Mix	Ethane & Propane	Propane = 5,000 lbs
25 bbls (4,987 lbs)	Ethylene	Ethylene	Ethylene = 5,000 lbs
13 bbl (5,083 lbs)	Ethylene glycol	Ethylene glycol	Eth glycol=5,000 lbs
4 bbls (1,229 lbs)	Refined Gasoline	Benzene	Benzene = 10 lbs
84 bbls (18,557 lbs)		Benzene & Pentanes	Pentane = 5,000 lbs
106 bbls (21,917 lbs)	Refined Gasoline	Benzene, Pentanes & Butanes	Butanes = 5,000 lbs
204 bbls (62,118 lbs)		Benzene, Pentanes, Butanes & Xylene	Xylenes = 100 lbs
448 bbls (3,676 lbs)	Refined Gasoline	Benzene, Pentanes, Butanes, Xylene & Hexane	Hexane = 5,000 lbs
494 bbls (151,678 lbs)	Refined Gasoline	Benzene, Pentanes, Butanes, Xylene, Hexane & Toluene	Toluene = 1,000 lbs
>8,000 bbls		Benzene, Pentanes, Butanes, Xylene, Hexane, Toluene & Ethylbenzene	EB = 1,000 lbs
6 bbls (1,827 lbs)	HAD	Xylene	Xylene = 100 lbs

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Rev 09/19/06	Table 2 = Reportable Quantities for TCEQ Air Regs/LEPC RPTG		
Table 2 RQ's for Texas.xls			
If you are in the following counties use Table 3:			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange or Jefferson			
IF This Amount is Released:	Of This Product	Reportable Quantity Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
30 bbls (12,033 lbs)	HAD	Xylene & Naphthalene	Naphthalene = 100lbs
32 bbls (9,690 lbs)	HAD	Xylene, Naphthalene & Ethylbenzene	EB = 1,000 lbs
1860 bbl (384,584 lbs)	1-Hexene	Butene	Butene = 5,000 lbs
2 Gal (14 lbs)	HPG	Benzene	Benzene = 10 lbs
4 bbls (1,218 lbs)	HPG	Benzene & Xylene	Xylenes = 100 lbs
13 bbls (3,991 lbs)	HPG	Benzene, Xylene & Toluene	Toluene = 1,000 lbs
40 bbls (12,112 lbs)	HPG	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
1075 bbls (248,325 lbs)	HPG	Benzene, Xylene, Toluene, Ethylbenzene & Hexane	Hexane = 5,000 lbs
584 bbls (120,187 lbs)	Isobutane	Butene	Butene = 5,000 lbs
634 bbls (129,678 lbs)	Isobutane	Butene & Butane	Butanes = 5,000 lbs
938 bbls (174,524 lbs)	Isobutane	Butene, Butane, & Propane	Propane = 5,000 lbs
1 bbl (241 lbs)	Isoprene	Isoprene	Isoprene = 100 lbs
2 bbls (439 lbs)	Isoprene	Isoprene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
57 bbls (12,592 lbs)	Isoprene	Isoprene, 1,3 Butadiene, & Pentane	Pentane = 5,000 lbs
215 bbls (49,665 lbs)	Isoprene	Isoprene, 1,3 Butadiene, Pentane & Hexane	Hexane = 5,000 lbs
815 bbls (166,700 lbs)	Isoprene	Isoprene, 1,3 Butadiene, Pentane, Hexane & Butane	Butanes = 5,000 lbs
2 Gal (14 lbs)	Light Blending Aromatic	Benzene	Benzene = 10 lbs
3 bbls (913 lbs)	(Pascagoula)	Benzene & Xylene	Xylenes = 100 lbs
6 bbls (1,842 lbs)	Light Blending Aromatic	Benzene, Xylene, & Toluene	Toluene = 1,000 lbs
65 bbls (19,683 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
430 bbls (99,510 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene, Ethylbenzene, & Hexane	Hexane = 5,000 lbs
110.5 bbls (17,804 lbs)	Raw LPG	Propane	Propane = 5,000 lbs
205 bbls (51,918 lbs)	Naptha	2,2,4 Trimethylpentane	TMP = 1,000 lbs
2 bbls (614 lbs)	Natural Gasoline	Benzene	Benzene = 10 lbs
218 bbls (50,358 lbs)	Natural Gasoline	Benzene & Hexane	Hexane = 5,000 lbs
22 bbls (4,860 lbs)	Pentane	Pentane	Pentane = 5,000 lbs
41 bbls (9,057 lbs)	PP Mix	Propylene	Propylene = 5,000 lbs
85 bbls (15,101 lbs)	PP Mix	Propylene & Propane	Propane = 5,000 lbs
28 bbls (4974 lbs)	Propane	Propane	Propane = 5,000 lbs
27 bbls (4864 lbs)	Propylene	Propylene	Propylene = 5,000
5600 bbls (994,896 lbs)	Propylene	Propylene & Propane	Propane = 5,000 lbs
6 bbls (1,844 lbs)	Raffinate	Benzene	Benzene = 10 lbs
22 bbls (6,652 lbs)	Raffinate	Benzene & Xylene	Xylenes = 100 lbs
109 bbls (33,465 lbs)	Raffinate	Benzene, Xylene, & Toluene	Toluene = 1,000 lbs
215 bbls (49,755 lbs)	Raffinate	Benzene, Xylene, Toluene, & Hexane	Hexane = 5,000 lbs
327 bbls (99,022 lbs)	Raffinate	Benzene, Xylene, Toluene, Hexane & Ethylbenzene	EB = 1,000 lbs
2 Gal (14 lbs)	RPG	Benzene	Benzene = 10 lbs
38 Gal (198 lbs)	RPG	Benzene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
3 bbls (907 lbs)	RPG	Benzene, 1,3 Butadiene & Xylene	Xylenes = 100 lbs

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Rev 09/19/06	Table 2 = Reportable Quantities for TCEQ Air Regs/LEPC RPTG		
Table 2 RQ's for Texas.xls			
If you are in the following counties use Table 3:			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange or Jefferson			
		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
4 bbls (954 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene & Isoprene	Isoprene = 100 lbs
33 bbls (9,993 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Isoprene	Toluene = 1,000 lbs
		Toluene, & ethylbenzene	EB = 1,000 lbs
1075 bbls (248,776 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Isoprene	Hexane = 5,000 lbs
		Toluene, Ethylbenzene & Hexane	

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

REPORTABLE QUANTITIES FOR TCEQ AIR REGS/LEPC RPTG (SELECTED COUNTIES)

Table 3 = Reportable Quantities for TCEQ Air Regs for the following counties			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange and Jefferson			
Rev 09/19/06		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
83,000 Gal (5,000 lbs)	Alkylate	Butane	5,000 lbs
2 Gal (10.5 lbs)	1,3 Butadiene	1,3 Butadiene	1,3 Butadiene = 10 lbs
29 Gal (142 lbs)	1,3 Butadiene	Butenes	Butenes = 100 lbs
2 Gal (10.5 lbs)	Butadiene Feedstock	1,3 Butadiene	1,3 Butadiene = 10 lbs
29 Gal (142 lbs)	Butadiene Feedstock	1,3 Butadiene & butenes	Butenes = 100 lbs
37 bbl (7,650 lbs)	Butadiene Feedstock	1,3 Butadiene, butenes & butanes	Butanes = 5,000 lbs
9 bbls (3,969 lbs)	Butane	1,3 Butadiene	1,3 Butadiene = 10 lbs
24 bbls (4,962 lbs)	Butane	1,3 Butadiene and Butane	Butanes = 5,000 lbs
150 bbls (33,138 lbs)	Butane	1,3 Butadiene, Butane & Pentane	Pentane = 5,000 lbs
3 bbl (635 lbs)	B-B Mix (Butane-Butylene)	Butenes	Butenes = 100 lbs
9 bbl (1,977 lbs)	B-B Mix (Butane-Butylene)	Butenes & 1,3 Butadiene	1,3 Butadiene = 10 lbs
32 bbl (7,069 lbs)	B-B Mix (Butane-Butylene)	Butenes, 1,3 Butadiene & butanes	Butanes = 5,000 lbs
153 bbl (33,228 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene, butanes, butenes & iso-pentane	Isopentane = 5,000 lbs
175 bbls (51,670 lbs)	Crude Oil (9% volatile)	Crude Oil, Crude Oil Condensate	Crude Oil
	Benzene (.2% volatile)	Benzene 10#	Benzene = 10 lbs
25 bbls (10,418 lbs)	Sour Crude (H2S 2.3%)	Hydrogen Sulfide	H2S = 100 lbs
3 Gal (22 lbs)	Depentanizer Bottoms	Benzene	Benzene = 10 lbs
39 Gal (284 lbs)	Depentanizer Bottoms	Benzene & toluene	Toluene = 100 lbs
5 bbl (1,660 lbs)	Depentanizer Bottoms	Benzene, toluene & p-xylene	PX = 100 lbs
54 bbl (16,443 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, & m-xylene	MX = 1,000 lbs
66 bbl (19,986 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, & ethylbenzene	EB = 1,000 lbs
154 bbl (35,574 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, & n-hexane	Hexane = 5,000 lbs
162 bbl (49,941 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, n-hexane, & o-xylene	OX = 1,000 lbs
1,425 Gal (100 lbs)	Diesel Blend stock	Naphthalene	100 lbs
29 bbl (5,152 lbs)	Ethane (Enterprise)	Ethane	Ethane = 5,000 lbs
562 bbl (99,844 lbs)	Ethane (Enterprise)	Ethane & Propane	Propane = 5,000 lbs
43 bbls (7,639 lbs)	Ethane/Propane Mix	Ethane	Ethane = 5,000 lbs
94 bbls (16,700 lbs)	Ethane/Propane Mix	Ethane & Propane	Propane = 5,000 lbs
21 gal (99 lbs)	Ethylene	Ethylene	Ethylene = 100 lbs
13 bbl (5,083lbs)	Ethylene glycol	Ethylene glycol	Eth glycol = 5,000 lbs
53 Gal (Exceeds Benzene RQ) 620 Gal (Exceeds o-xylene RQ)	FCC Gasoline	Benzene, o-xylene	Benzene = 10 lbs o-xylene = 1,000 lbs
770 Gal	Jet A/JP – 5 Jet Fuel A Jet Fuel/Jet Blendstock	Petroleum Distillates Benzene	Petr. Dist.'s=5,000 lbs
633 Gal	Light Cycle Oil	Mineral Spirits	5,000 lbs
758 Gal	Methanol	Methanol	5,000 lbs
4 bbls (1,229 lbs)	Refined Gasoline	Benzene	Benzene = 10 lbs

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Table 3 = Reportable Quantities for TCEQ Air Regs for the following counties			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange and Jefferson			
Rev 09/19/06		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
43 bbl (8,890 lbs)	Refined Gasoline	Benzene, Butenes	Butenes = 100 lbs
49 bbls (15,043 lbs)	Refined Gasoline	Benzene, Butenes & Toluene	Toluene = 100 lbs
84 bbls (18,557 lbs)	Refined Gasoline	Benzene, Butenes, Toluene & Pentanes	Pentane = 5,000 lbs
106 bbls (21,917 lbs)	Refined Gasoline	Benzene, Butenes, Toluene, Pentanes & Butanes	Butanes = 5,000 lbs
204 bbls (62,118 lbs)	Refined Gasoline	Benzene, Butenes, Toluene, Pentanes & Butanes & Xylenes	Xylenes = 100 lbs
448 bbls (103,676 lbs)	Refined Gasoline	Benzene, Butenes, Toluene, Pentanes & Butanes Xylenes & Hexane	Hexane = 5,000 lbs
>8,000 bbls	Refined Gasoline	Benzene, Pentanes, Butanes, Xylene, Hexane, Toluene & Ethylbenzene	EB = 1,000 lbs
6 bbls (1,827 lbs)	HAD	Xylene	Xylene = 100 lbs
30 bbls (12,033 lbs)	HAD	Xylene & Napthalene	Napthalene = 100lbs
32 bbls (9,690 lbs)	HAD	Xylene, Napthalene & Ethylbenzene	EB = 1,000 lbs
37 bbl (7,650 lbs)	1-Hexene	Butene	Butenes = 100 lbs
2 Gal (14 lbs)	HPG	Benzene	Benzene = 10 lbs
55 gal (402 lbs)	HPG	Benzene, & Toluene	Toluene = 100 lbs
4 bbls (1,218 lbs)	HPG	Benzene, Toluene & Xylene	Xylenes = 100 lbs
40 bbls (12,112 lbs)	HPG	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
1075 bbls (248,325 lbs)	HPG	Benzene, Xylene, Toluene, Ethylbenzene & Hexane	Hexane = 5,000 lbs
20 gal (98 lbs)	Isobutane	Butene	Butenes = 100 lbs
18 bbl (3,281 lbs)	Isobutane	Butene, Propylene	Propylene = 100 lbs
634 bbls (129,678 lbs)	Isobutane	Butene, Propylene & Butane	Butanes = 5,000 lbs
938 bbls (174,524 lbs)	Isobutane	Butene, Propylene, Butane, & Propane	Propane = 5,000 lbs
1 bbl (241 lbs)	Isoprene	Isoprene	Isoprene = 100 lbs
2 bbls (439 lbs)	Isoprene	Isoprene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
57 bbls (12,592 lbs)	Isoprene	Isoprene, 1,3 Butadiene, & Pentane	Pentane = 5,000 lbs
215 bbls (49,665 lbs)	Isoprene	Isoprene, 1,3 Butadiene, Pentane & Hexane	Hexane = 5,000 lbs
815 bbls (166,700 lbs)	Isoprene	Isoprene, 1,3 Butadiene, Pentane, Hexane & Butane	Butanes = 5,000 lbs
10 lbs	Leaded paint/sand waste	Lead	Lead = 10 lbs
2 Gal (14 lbs)	Light Blending Aromatic	Benzene	Benzene = 10 lbs
3 bbls (913 lbs)	(Pascagoula)	Benzene & Xylene	Xylenes = 100 lbs
6 bbls (1,842 lbs)	Light Blending Aromatic	Benzene, Xylene, & Toluene	Toluene = 100 lbs
65 bbls (19,683 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
430 bbls (99,510 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene, Ethylbenzene, & Hexane	Hexane = 5,000 lbs
110.5 bbls (17,805 lbs)	Raw LPG	Propane	Propane = 5,000 lbs
205 bbls (51,918 lbs)	Naphtha	2,2,4 Trimethylpentane	TMP = 1,000 lbs
2385 MCF	Natural Gas	Mixtures of VOC's excluding methane and ethane	5000 lbs (VOC's)
2 bbls (614 lbs)	Natural Gasoline	Benzene	Benzene = 10 lbs
218 bbls (50,358 lbs)	Natural Gasoline	Benzene & Hexane	Hexane = 5,000 lbs
22 bbls (4,860 lbs)	Pentane	Pentane	Pentane = 5,000 lbs
30 gal (130 lbs)	PP Mix	Propylene	Propylene = 5,000 lbs
85 bbls (15,101 lbs)	PP Mix	Propylene & Propane	Propane = 5,000 lbs
814 bbl (166,495 lbs)	PP Mix	Propylene, Propane, & Butane	Butane - 5,000 lbs

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Table 3 = Reportable Quantities for TCEQ Air Regs for the following counties			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange and Jefferson			
Rev 09/19/06		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
28 bbls (4974 lbs)	Propane	Propane	Propane = 5,000 lbs
23 gallons (98 lbs)	Propylene	Propylene	Propylene = 100 lbs
5600 bbls (994,896 lbs)	Propylene	Propylene & Propane	Propane = 5,000 lbs
6 bbls (1,844 lbs)	Raffinate	Benzene	Benzene = 10 lbs
11 bbls (3,377 lbs)	Raffinate	Benzene & Toluene	Toluene = 100 lbs
22 bbls (6,652 lbs)	Raffinate	Benzene, Toluene & Xylene	Xylenes = 100 lbs
215 bbls (49,755 lbs)	Raffinate	Benzene, Xylene, Toluene, & Hexane	Hexane = 5,000 lbs
327 bbls (99,022 lbs)	Raffinate	Benzene, Xylene, Toluene, Hexane & Ethylbenzene	EB = 1,000 lbs
149 Gal (1,000 lbs)	Recovered Oil	Recovered Oil	1,000 lbs
5 Gal (10 lbs)	Reformat Naptha	Benzene	Benzene = 10 lbs
45 Gal (100 lbs)	Reformat Naptha	Toluene	Toluene = 100 lbs
276 Gal (100 lbs)	Reformat Naptha	p-xylene	p-xylene = 100 lbs
685 Gal (1,000 lbs)	Reformat Naptha	m-xylene	m-xylene = 1,000 lbs
2 Gal (14 lbs)	RPG	Benzene	Benzene = 10 lbs
38 Gal (198 lbs)	RPG	Benzene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
3 bbls (907 lbs)	RPG	Benzene, 1,3 Butadiene & Toluene	Toluene = 100 lbs
3 bbls (921 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Toluene, EB	Xylene = 100 lbs
4 bbls (954 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene & Isoprene	Isoprene = 100 lbs
		Toluene, & Ethylbenzene	EB = 1,000 lbs
1075 bbls (248,776 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Isoprene Toluene, Ethylbenzene & Hexane	Hexane = 5,000 lbs
735 Gal (5,000 lbs)	140 Solvent 6613 (includes the following: Mics. Solvents Naptha Based/Hydrocarbon Solvent Mineral Spirits 66/3 Mineral Spirits 75 Reg. Mineral Spirits Rubber Solvent Solvent G Hydrocarbon Solvents	Mineral Spirits	Mineral Spirits = 5,000 lbs
14 Gal (100 lbs)	Toluene	Toluene	100 lbs
14 Gal (100 lbs)	Toluene/Xylene Mix	Toluene/Xylene Mix	100 lbs
14 Gal (100 lbs)	Xylene	Xylene	100 lbs

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

TEXAS LOCAL EMERGENCY PLANNING COMMITTEES (LEPC)

Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Facilities which file the Texas Tier Two Report with the Texas Department of State Health Services, Tier II Chemical Reporting Program are also required to submit this Report to the local fire department having jurisdiction over the reporting facility and to the Local Emergency Planning Committee (LEPC) for the county or area in which the reporting facility is located (see below for LEPC listings by County/Area). Remember: your LEPC's are volunteer organizations and need your support!

Anderson County
 The Hon. Linda Bostic Ray
 703 N. Mallard
 Palestine 75801
 LEPC Phone: 903-723-7812
 Spill Phone: 911
 E-Mail: swells@co.anderson.tx.us

Andrews County
 The Hon. Richard H. Dolgener
 201 N. Main, Rm. 104
 Andrews 79714
 LEPC Phone: 432-524-1401
 Spill Phone: 911
 E-Mail: rdolgener@co.andrews.tx.us

Angelina County
 Hon. Wes Suiter
 P. O. Box 908
 Lufkin 75902-0908
 LEPC Phone: 936-634-5413
 Spill Phone: 911
 E-Mail: wsuiter@angelinacounty.net

Aransas County-Electronic via Email
Coastal Plain LEPC
 Mr. Rick McLester
 301 North Live Oak
 Rockport 78382
 LEPC Phone: 361-790-0108
 Spill Phone: 911
 E-Mail: macypepper@hotmail.com

Archer County
 Mr. Curtis Nelson
 P. O. Box 367
 Archer City 76351-0367
 LEPC Phone: 940-574-4545
 Spill Phone: 911
 E-Mail: fmarshalemc@cityofactx.org

Armstrong County
 The Hon. Hugh Reed
 P. O. Drawer 189
 Claude 79019-0189
 LEPC Phone: 806-226-3221
 Spill Phone: 911
 E-Mail: armstrem@hotmail.com

Atascosa County
 Mr. Chuck Garis
 711 Oak Broadway
 Jourdanton 78026
 LEPC Phone: 830-769-2029
 Spill Phone: 911
 E-Mail: emc-fm@karnesec.net

Austin County
 Mr. Ray Chislett
 One East Main Street
 Bellville 77418
 LEPC Phone: 979-865-5911
 Spill Phone: 911
 E-Mail: emgt@austincounty.com

Bailey County
 The Hon. Sherri Harrison
 300 S. First St.
 Muleshoe 79347
 LEPC Phone: 806-272-3077
 Spill Phone: 911
 E-Mail: NA

Bandera County Electronic via Email
 Ms. Carey Reed
 P. O. Box 2485
 Bandera 78003
 LEPC Phone: 830-796-8343
 Spill Phone: 911
 E-Mail: banderaeoc@indian-creek.net

Bastrop County
 The Hon. Ronnie McDonald
 804 Pecan St.
 Bastrop 78602
 LEPC Phone: 512-332-7201
 Spill Phone: 911
 E-Mail: gayle.wilhelm@co.bastrop.tx.us

Baylor County
 Mr. Tommy Duncan
 102 W. California
 Seymour 76380
 LEPC Phone: 940-889-8888
 Spill Phone: 911
 E-Mail: NA

Bee County - Electronic via Email
 Mr. David Morgan
 111 S. St. Mary's St., Ste. 201
 Beeville 78102
 LEPC Phone: 361-362-3271
 Spill Phone: 911
 E-Mail: david.morgan@co.bee.tx.us

Bell County-Electronic via Email only
 Mr. Dennis Baker
 708 W. Avenue O
 Belton 76513-4120
 LEPC Phone: 254-933-5587
 Spill Phone: 911
 E-Mail: hhall@bcc911.com

Bexar County Email Only
 Mr. Charles Metzger
 Bexar County WMD/HazMat Coord.
 P.O. Box 35488
 Brooks City Base, TX 78235-0488
 LEPC Phone: 210-206-8532
 Spill Phone: 911
 E-Mail: Charles.Metzger@sanantonio.gov
Tier2Submit@sanantonio.gov
Please use Tier 2 email above for data files to Bexar Co. LEPC

Blanco County
 Mr. Bill Guthrie
 P. O. Box 387
 Johnson City 78636
 LEPC Phone: 830-868-4266
 Spill Phone: 911
 E-Mail: bguthrie@moment.net

Borden County
 The Hon. Van L. York
 P. O. Box 156
 Gail 79738
 LEPC Phone: 806-756-4391
 Spill Phone: 911
 E-Mail: bordenci@poka.com

Bosque County
 Mr. Dewey Ratliff
 P. O. Box 647
 Meridian 76665
 LEPC Phone: 254-435-2807
 Spill Phone: 911
 E-Mail: bosqueemc@htcomp.net

Bowie County
 Ms. Cindy White
 P. O. Box 1967
 Texarkana 75501
 LEPC Phone: 903-798-3101
 Spill Phone: 903-798-3042
 E-Mail: cwhite@txkusa.org

Brazoria County
 Mr. Steve Rosa
 111 E. Locust St., Room 102
 Angleton 77515
 LEPC Phone: 979-864-1201
 Spill Phone: 911
 E-Mail: steverosa@brazoria-county.com

Brazos County-Electronic via Email
 Mr. Rodney Mayerhoff
 110 N. Main St., Ste. 100
 Bryan 77803
 LEPC Phone: 979-393-9913
 Spill Phone: 911
 E-Mail: mmeade@co.brazos.tx.us

Brewster County
 Mr. Tom Santry
 Brewster Co. EMC
 107 W. Avenue E, #15
 Alpine 79830
 LEPC Phone: 432-294-0205
 Spill Phone: 911
 E-Mail: brewsteremc@overland.net

Briscoe County
 The Hon. Wayne Nance
 P. O. Box 153
 Silverton 79257
 LEPC Phone: 806-823-2131
 Spill Phone: 911
 E-Mail: bcjudge@midplains.coop

Brooks County
 Mr. Gonzalo Benavides
 P. O. Box 515
 Falfurrias 78355
 LEPC Phone: 361-675-0783
 Spill Phone: 911
 E-Mail: gonzalo.benavides@brooks-county.com

Brown County
 The Hon. E. Ray West, III
 200 S. Broadway
 Brownwood 76801
 LEPC Phone: 325-643-2828
 Spill Phone: 911
 E-Mail: eraywest@hotmail.com

Burleson County (Electronic Only)
 Mr. David Bagley
 100 West Buck, Suite 205
 Caldwell 77836
 LEPC Phone: 979-567-2008
 Spill Phone: 979-268-1601
 E-Mail: emc@burlesoncounty.org

Burnet County
 Ms. Nancy Collins
 220 S. Pierce
 Burnet 78611
 LEPC Phone: 512-756-5420
 Fax: 512-715-5291
 Spill Phone: 911
 E-Mail: NA

Caldwell County
 Mr. Jim Parker
 1400 FM 20 East, Suite E
 Lockhart 78644
 LEPC Phone: 512-398-1822
 Spill Phone: 911
 E-Mail: ccemc@austin.rr.com
 Web: www.ccfremarshal.org

Calhoun County
 Mr. Mark Daigle
 211 S. Ann, Rm. 304
 Port Lavaca 77979
 LEPC Phone: 361-553-4400
 Spill Phone: 361-553-4646
 E-Mail: emermat@tisd.net

Callahan County
 The Hon. Roger Corn
 100 W. 4th, Ste. 200
 Baird 79504
 LEPC Phone: 325-854-1155
 Spill Phone: 911
 E-Mail: roger.corn@callahancounty.org

Cameron County
 Mr. David Hanawa
 1100 East Monroe
 Brownsville 78520
 LEPC Phone: 956-365-4252
 Spill Phone: 956-535-9110 (after hours)
 E-Mail: ghanawa@chemicalresponse.com

Camp County
 Mr. David Abernathy
 P. O. Box 992
 Pittsburg 75686
 LEPC Phone: 903-856-2097
 Spill Phone: 903-856-6651
 E-Mail: dabernathy@tfs.tamu.edu

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill. Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Carson County Email
 The Hon. Lewis W. Powers
 P. O. Box 369
 Panhandle 79068
 LEPC Phone: 806-537-3622
 Spill Phone: 911
 E-Mail: carsonem@amaonline.com

Cass County
 The Hon. Charles McMichael
 P. O. Box 825
 Linden 75563
 LEPC Phone: 903-756-5181
 Spill Phone: 911
 E-Mail: casscjudge@casscountytexas.org

Castro County
 Mr. Randy Griffitt
 100 E. Bedford St., Rm. 111
 Dimmitt 79027
 LEPC Phone: 806-647-4451
 Fax: 806-647-4403
 Spill Phone: 911
 E-Mail: wfsccjudge@castrocounty.org

Chambers County
 Mr. Ryan Holzaepfel
 P. O. Box 957
 Anahuac 77514
 LEPC Phone: 409-267-8343
 Spill Phone: 911
 E-Mail: holzaepfel@co.chambers.tx.us

Cherokee County
 The Hon. Chris Davis
 502 N. Main
 Rusk 75785
 LEPC Phone: 903-683-2324
 Spill Phone: 911
 E-Mail: cjudge@co.cherokee.org

Childress County
 The Hon. Jay Mayden
 100 Ave E NW, Box 1
 Childress 79201
 LEPC Phone: 940-937-2221
 Spill Phone: 911
 E-Mail:
childresscjudge@childresstexas.net

Clay County
 Mr. Kent Neville
 100 N. Bridge St.
 Henrietta 76365
 LEPC Phone: 940-538-4052
 Spill Phone: 911
 E-Mail:
ccemergencygmt@claycountytexas.com
 Web: www.co.clay.tx.us/ips.cms

Cochran County
 Mr. Raymond Weber
 100 N. Main, Rm. B7
 Morton 79346
 LEPC Phone: 806-266-5211
 Spill Phone: 911
 E-Mail: cochranso@door.net

Coke County - Electronic via Email
 The Hon. Roy Blair
 13 E. 7th St.
 Robert Lee 76945
 LEPC Phone: 325-453-2641
 Spill Phone: 911
 E-Mail: cokecounty911@hotmail.com

Coleman County
 Mr. Jimmie Hobbs
 100 Live Oak, #102
 Coleman 76834
 LEPC Phone: 325-625-3506
 Spill Phone: 911
 E-Mail: NA

Collin County
 Mr. Steve Deffibaugh
 825 N. McDonald, Ste. 140
 McKinney 75069
 LEPC Phone: 972-548-5576
 Spill Phone: 911
 E-Mail: sdeffibaugh@co.collin.tx.us

Collingsworth County
 The Hon. John James
 Co. Courthouse, 2nd Floor, Rm. 1
 Wellington 79095
 LEPC Phone: 806-447-5408
 Spill Phone: 911
 E-Mail: jjames@co.collingsworth.tx.us

Colorado County
 Mr. Charles Rogers
 305 Radio Lane, #103
 Columbus 78934
 LEPC Phone: 979-733-0184
 Spill Phone: 911
 E-Mail: cctxoem@co.colorado.tx.us

Comal County
 Ms. Carol Edgett
 199 Main Plaza
 New Braunfels 78130
 LEPC Phone: 830-608-8656
 Spill Phone: 911
 E-Mail: cctcie@co.comal.tx.us

Comanche County
 Mr. Ray Helberg
 101 West Central
 Comanche 76442
 LEPC Phone: 254-893-4352
 Spill Phone: 911
 E-Mail: raygun@ccctc.net

Concho County
 The Hon. Allen Amos
 P. O. Box 158
 Paint Rock 76866
 LEPC Phone: 325-732-4321
 Spill Phone: 911
 E-Mail: conchojudge@yahoo.com

Cooke County
 Mr. Ray Fletcher
 100 S. Dixon, B10
 Gainesville 76240
 LEPC Phone: 940-668-5400
 Spill Phone: 911
 E-Mail: ray.fletcher@co.cooke.tx.us

Coryell County
 Mr. Phil Yarborough
 3945 W. US 84
 Gatesville 76528
 LEPC Phone: 254-223-4123
 Spill Phone: 911
 E-Mail: pyarbro@hughes.net

Cottle County
 The Hon. D.N. Gregory Jr.
 P. O. Box 729
 Paducah 79248
 LEPC Phone: 806-492-3613
 Spill Phone: 911
 E-Mail: NA

Crane County
 Mr. Roy McGaa
 115 West 6th Street
 Crane 79731
 LEPC Phone: 432-558-2212
 Spill Phone: 911
 E-Mail: rmcgaa@yahoo.com

Crockett County
 Mr. Steve Kenley
 903 Avenue D
 Ozona 76943
 LEPC Phone: 325-392-2661
 Spill Phone: 911
 E-Mail: crockettfm@aol.com

Crosby
 Mr. Davy Abell
 201 W. Aspen, Ste. 208
 Crosbyton 79322
 LEPC Phone: 806-675-2011
 Spill Phone: 911
 E-Mail: cjudge@speednet.com

Culberson County
 Mr. Russell Wyatt
 P. O. Box 754
 Van Horn 79855
 LEPC Phone: 432-284-0616
 Spill Phone: 911
 E-Mail: rcwjr94862002@yahoo.com

Dallam & Hartley County
 Mr. Curtis Brown
 110 Denrock
 Dalhart 79022
 LEPC Phone: 806-244-5454
 Spill Phone: 911
 E-Mail: dalhartfd@hotmail.com

Dallas County – Electronic via Email
 Mr. Rodrick Jones
 Dallas County LEPC
 509 Main St., Ste. 305
 Dallas 75202
 LEPC Phone: 214-653-7980
 Spill Phone: LEPC No. or 911
 E-Mail:
Rodrick.Jones@dallascounty.org

Dawson County
 Mr. Wayne Smith
 805 N. 23rd
 Lamesa 79331
 LEPC Phone: 806-872-3909
 Spill Phone: 911
 E-Mail: wsmith@pics.net

De Witt County
 Mr. Jolly Badgett
 307 N. Gonzales St.
 Cuero 77954
 LEPC Phone: 361-275-3642
 Spill Phone: 911
 E-Mail: dewittcoemc@nodial.net

Deaf Smith County
 Mr. Dean Turney
 215 N Miles Ave.
 Hereford 79045
 LEPC Phone: 806-363-7114
 Spill Phone: 911
 E-Mail: hfd@go-herd.com

Delta County
 Mr. Harold Watkins
 200 W. Bonham Street
 Cooper 75432
 LEPC Phone: 903-395-2146
 Spill Phone: 911
 E-Mail: dcsc@coyote.com

Denton County - Electronic via Email
 Mr. Jody Gonzalez
 9060 Teasley Lane
 Denton 76210
 LEPC Phone: 940-349-2840
 Spill Phone: 940-898-5600
 E-Mail: lepc@dentoncounty.com

Dickens County
 Mr. Jimmie Land
 P. O. Box 59
 Dickens 79229
 LEPC Phone: 806-623-5533
 Spill Phone: 911
 E-Mail:

Dimmit County
 Mr. Jose Luis Rodriguez
 P. O. Box 329
 Carrizo Springs 78834
 LEPC Phone: 830-876-5720
 Spill Phone: 911
 E-Mail: mscitycs@the-i.net

Donley County
 The Hon. Jack Hall
 P. O. Box 909
 Clarendon 79226
 LEPC Phone: 806-874-3625
 Spill Phone: 911
 E-Mail: countyjudge@donleytx.com

Duval County
 Mr. Ashley Barrera
 P. O. Box 1071
 San Diego 78384
 LEPC Phone: 361-279-6214
 Spill Phone: 911
 E-Mail: NA

Eastland County-Electronic via Email
 The Honorable Rex Fields
 Eastland County Judge's Office
 100 W. Main St., Ste. 203
 Eastland 76448
 LEPC Phone: 254-629-1263
 Spill Phone: 911
 E-Mail:
cjudge@eastlandcountytexas.com

Ector County
 Mr. Rick Dietz
 P. O. Box 1312
 Odessa 79760
 LEPC Phone: 432-335-4654
 Spill Phone: 911
 E-Mail: drake@ci.odessa.tx.us

Note: **Spill Phone** is the emergency number a facility should call to report a CERCLA or EPCRA hazardous chemical spill. Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Edwards County

The Hon. Nick Gallegos
P. O. Box 348
Rocksprings 78880
LEPC Phone: 830-683-6122 /
830-683-4104
Spill Phone: 911
E-Mail: judge@swtexas.net

El Paso County – Elec. via Email

Chief Robert Arvizu
6800 Delta Drive
El Paso 79905
LEPC Phone: 915-775-7320
Spill Phone: 911
E-Mail: epfdier2@elpasotexas.gov

Ellis County

Mr. John D. Patterson
101 West Main Street
Waxahachie 75165-7834
LEPC Phone: 972-923-5220
Spill Phone: 911
E-Mail: john.patterson@co.ellis.tx.us

Erath County

Mr. John Wooley
100 W. Washington St.
Stephenville 76401
LEPC Phone: 254-965-1452
Spill Phone: 911
E-Mail: countyjudge@htcomp.net

Falls County

The Hon. Judge Thomas Sehon
P. O. Box 458
Marlin 76661
LEPC Phone: 254-883-1426
Spill Phone: 911
E-Mail: tbsehon@aol.com

Fannin County

Mr. Darrell Brewer
210 South Main
Bonham TX 75416
LEPC Phone: 903-640-8484
Spill Phone: 911
E-Mail: fcmcm@cmableone.net

Fayette County

Mr. Daniel Zitterich
255B N. Franklin
La Grange 78945
LEPC Phone: 979-966-0906
Spill Phone: 911
E-Mail: faycoemc@cmaccess.com

Fisher County

The Hon. Marshal Bennett
P. O. Box 306
Roby 79543
LEPC Phone: 325-776-2151
Spill Phone: 911
E-Mail: fishercoldudge@fishernet.org

Floyd County

Mr. Carroll Sims
114 W. Virginia St.
Floydada 79235
LEPC Phone: 806-983-2834
Spill Phone: 911
E-Mail: brewc15@aol.com

Foard County

Mr. Mike Brown
P. O. Box 205
Crowell 79227
LEPC Phone: 940-684-1501
Spill Phone: 911
E-Mail: deputyd2001@yahoo.com

Fort Bend County

Mr. Raymond Engelhardt
307 Fort Street
Richmond 77469
LEPC Phone: 713-898-9760
Spill Phone: 911
E-Mail: raymond.engelhardt@nrgenergy.com

Franklin County

Mr. Gerry Allen
208 State Hwy 37
Mt. Vernon 75457
LEPC Phone: 903-537-4539
Spill Phone: 911
E-Mail: gallen@co.franklin.tx.us

Freestone County

Mr. Don Anderson
Drawer 47
Fairfield 75840
LEPC Phone: 903-389-3236
Spill Phone: 911
E-Mail: sheriff-freestone@glade.net

Frio County

Mr. William H. Woodward
500 E. San Antonio St., #5
Pearsall 78061-3145
LEPC Phone: 830-334-3201/
210-415-5588
Spill Phone: 911
E-Mail: bwoodward@ci.alamo-heights.tx.us

Gaines County

The Hon. Tom Keyes
P. O. Box 847
Seminole 79360
LEPC Phone: 432-758-5411
Spill Phone: 911
E-Mail: tom.keyes@co.gaines.tx.us

Galveston County

Mr. Terry Byrd
1353 FM 646, Suite 302
Dickinson 77539-9339
LEPC Phone: 281-534-8442
Spill Phone: 911
E-Mail: connie.nicholson@co.galveston.tx.us

Garza County

Mr. Michael Isbell
300 W. Main St.
Post 79356
LEPC Phone: 806-495-4405/495-1913
Spill Phone: 911
E-Mail: misbellgarzamac@yahoo.com

Gillespie County

The Hon. Mark Stroehrer
111 West Main, Unit 9
Fredericksburg 78624
LEPC Phone: 830-997-7502
Spill Phone: 911
E-Mail: NA

Glasscock County

The Hon. Wilburn Bednar
P. O. Box 67
Garden City 79739
LEPC Phone: 432-354-2382
Spill Phone: 911
E-Mail: wilburn.bednar@co.glasscock.tx.us

Goliad County

The Hon. Harold Gleinser
P. O. Box 677
Goliad 77963
LEPC Phone: 361-645-3337
Spill Phone: 911
E-Mail: hgleinser@goliad.net

Gonzales County

Judge David Bird
414 St. Joseph St., Ste. 200
Gonzales 78629
LEPC Phone: 830-672-2327
Spill Phone: 911
E-Mail: countycourt@gvec.net

Gray County

Mr. Kenneth E. Hall
P. O. Box 2499
Pampa 79066-2499
LEPC Phone: 806-669-5820
Spill Phone: 911
E-Mail: pep@pampa.com

Grayson County

Mr. Jessie Liles
100 W. Houston, Ste. G-2
Sherman 75090
LEPC Phone: 903-813-4253
Spill Phone: 911
E-Mail: burnetta@co.grayson.tx.us

Gregg County

Mr. Fred Salver
101 E. Methvin, Suite 559
Longview 75601
LEPC Phone: 903-234-3144
Spill Phone: 911
E-Mail: fred.salver@co.gregg.tx.us

Grimes County

The Hon. Betty Shiflett
P. O. Box 160
Anderson 77830
LEPC Phone: 936-873-3135
Spill Phone: 911
E-Mail: betty.shiflett@co.grimes.tx.us

Guadalupe County

Mr. Daniel Kinsey
415 E. Donegan
Seguin 78155
LEPC Phone: 830-303-4188 ext. 230
Spill Phone: 911
E-Mail: dkinsey@co.guadalupe.tx.us

Hale County

Mr. Marvin Sistrunk
111 W. 6th St.
Plainview 79072
LEPC Phone: 806-291-5284
Spill Phone: 911
E-Mail: sistrunk@halecounty.org

Hall County

Mr. Jack Martin
512 W. Main, Ste. 4
Memphis 79245
LEPC Phone: 806-259-2511
Spill Phone: 911
E-Mail: cjhall@amaonline.com

Hamilton County

Mr. Randy Mills
Hamilton County Courthouse
102 N. Rice
Hamilton 76531
LEPC Phone: 254-386-3815
Spill Phone: 911
E-Mail: NA

Hansford County

The Hon. Benny D. Wilson
16 NW Court Street
Spearman 79081-2052
LEPC Phone: 806-659-4100
Spill Phone: 911
E-Mail: hansfordco@hotmail.com

Hardeman County

The Hon. Ronald Ingram
P. O. Box 30
Quanah 79252
LEPC Phone: 940-663-2911
Spill Phone: 911
E-Mail: judge@srcaccess.net

Hardin County

Mr. Dennis Gifford
300 Monroe St.
Kountze 77625
LEPC Phone: 409-246-5119
Spill Phone: 911
E-Mail: joelblackmon@co.hardin.tx.us

Harris-Bay Area

(combined with Harris-Bay Area to form
Southeast Regional LEPC;
see Harris-Southeast Regional LEPC)

Harris-Baytown

Ms. Misty Lowe
205 E. Wye Dr.
Baytown 77521
LEPC Phone: 281-420-6556
Spill Phone: 911
E-Mail: mistylowe@baytown.org
Web: www.baytownlepc.org

Harris-Bellaire - Electronic via Email

Chief Darryl Anderson
7008 S. Rice Ave.
Bellaire 77401
LEPC Phone: 713-662-8201
Spill Phone: 911
E-Mail: danderson@ci.bellaire.tx.us
Web: <http://tx-bellaire.civicplus.com>

Harris-Deer Park – Hard Copies

Ms. Sandra Watkins
P. O. Box 700
Deer Park 77536
LEPC Phone: 281-478-7248
Spill Phone: 281-479-1511
E-Mail: mailbox@deerparklepc.org /
skwatkins@deerparktx.org
Web: www.deerparklepc.org

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill.
Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Harris-Galena Park
 Mr. Rick Bates
 2207 Clinton Drive
 Galena Park 77547
 LEPC Phone: 713-675-3471
 Spill Phone: 713-675-3471
 E-Mail: gppd@houston.rr.com

Harris-Houston (City Limits)
 Mr. Nick J. Guillen
 P.O. Box 10817
 Houston 77206-0817
 LEPC Phone: 713-884-4227
 Spill Phone: 713-884-4227
 E-Mail: nicholas.guillen@cityofhouston.net
 Web: www.houstontx.gov/fire/divisions/lepc.html

Harris-Humble – Electronic via Email
 Mr. Clint Johnson
 110 W. Main St.
 Humble 77338
 LEPC Phone: 281-446-4928
 Spill Phone: 911
 E-Mail: cchambers@humblepolice.com
 Web: www.cityofhumble.net

Harris-Jacinto City
 Mr. Lon Squyers
 1301 Mercury
 Jacinto City 77029
 LEPC Phone: 713-674-8424
 Spill Phone: 713-674-8424
 E-Mail: jchief@pdq.net

Harris-Jersey Village
 Ms. Kathy Hutchens
 16501 Jersey Dr.
 Jersey Village 77029
 LEPC Phone: 713-466-2131
 Spill Phone: 713-466-5824
 E-Mail: khutchins@ci.jersey-village.tx.us
 Web: www.jvfire.com/

Harris-Katy
 Mr. Marc Jordan
 1417 Ave. D.
 Katy 77493
 LEPC Phone: 281-391-4010
 Spill Phone: 911
 E-Mail: mjordan@katyfire.com

Harris-La Porte –Elec. Via Email
 Mr. Jeff Suggs
 604 W. Fairmont Pkwy.
 La Porte 77571
 LEPC Phone: 281-471-3607
 Spill Phone: 281-471-2141
 E-Mail: emman@laportetx.gov
 Web: www.ci.la-porte.tx.us/lepc/LEPC_main.htm

Harris-Memorial Villages
 Chief Rick Poirier
 901 Corbindale
 Houston 77024
 LEPC Phone: 713-468-7941
 Spill Phone: 911
 E-Mail: rep54@swbell.net
 Web: www.villagefiredept.com

Harris - North Channel Area
 Mr. Lon Squyers
 P. O. Box 1847
 Channelview 77530
 LEPC Phone: 713-455-LEPC(5372)
 Spill Phone: 713-881-3100
 E-Mail: nclepc.contact@ev1.net
 Web: www.nclepc.org

Harris-Pasadena
 (combined with Harris-Bay Area to form Southeast Regional LEPC;
 see Harris-Southeast Regional LEPC)

Harris-South Houston
 Mr. Tommy Savell
 P. O. Box 513
 Houston 77587
 LEPC Phone: NA
 Spill Phone: 911
 E-Mail: NA

Harris-Southeast Regional LEPC
 Mr. Walter Grant, Chairman
 P.O. Box 1148
 Pasadena 77501
 LEPC Phone: 713-475-7088
 Spill Phone: 911
 E-Mail: Beckychristie2000@yahoo.com
 Web: www.serlepc.org

Harris-Tomball
 Chief Randy Parr
 1200 Rudel
 Tomball 77375
 LEPC Phone: 281-351-7101
 Spill Phone: 911
 E-Mail: rparr@ci.tomball.tx.us

Harris-Unincorporated
 Mr. George Freda
 P. O. Box 12271
 Spring 77391
 LEPC Phone: 281-320-9105
 Spill Phone: 911
 E-Mail: georgebf@yahoo.com

Harris-West University
 Chief Steve Ralls
 3800 University Blvd.
 Houston 77005
 LEPC Phone: 713-662-5836
 Spill Phone: 911
 E-Mail: sralls@westu.org

Harrison County-Elec. via Email
 Mr. Thomas Mock
 2110 Warren Dr.
 Marshall 75672
 LEPC Phone: 903-935-4870
 Spill Phone: 903-923-4000
 E-Mail: mockt@co.harrison.tx.us
 Tier II Email: debbieg@co.harrison.tx.us

Hartley County
 The Hon. Ronnie Gordon
 P. O. Box G
 Channing 79018
 LEPC Phone: 806-235-3442
 Spill Phone: 806-235-3442
 E-Mail: ronnie.gordon@co.hartley.tx.us

Haskell County
 The Hon. David Davis
 1 Ave. D
 Haskell 79521
 LEPC Phone: 940-864-2851
 Spill Phone: 940-864-2851
 E-Mail: cojudge@co.haskell.tx.us

Hays County
 Mr. Jeff Turner
 102 N. LBJ, Suite 303
 San Marcos 78666
 LEPC Phone: 512-393-7301
 Spill Phone: 911
 E-Mail: jeff.turner@co.hays.tx.us

Hemphill County
 The Hon. Steve Vandiver
 P. O. Box 536
 Canadian 79014
 LEPC Phone: 806-323-6521
 Spill Phone: 911
 E-Mail: cojudge@vft.net

Henderson County
 Ms. Joy Kimbrough, EMC
 County Courthouse Annex
 101 East Tyler, Rm 311
 Athens, TX 75751
 LEPC Phone: 903-677-7242
 Spill Phone: 911
 E-Mail: jimbrough@co.henderson.tx.us

Hidalgo County
 Mr. A.A. "Tony" Pena
 100 E. Cano, 2nd Floor Judge's Ofc.
 Edinburg 78540
 LEPC Phone: 956-318-2600
 Fax: 956-318-2699
 Spill Phone: 911
 E-Mail: tony.pena@hidalgocojudge.com

Hill County
 Sheriff Jeff Lyon
 P. O. Box 283
 Hillsboro 76645
 LEPC Phone: 254-582-5313
 Spill Phone: 254-582-5313
 E-Mail: jlyon@co.hill.tx.us

Hockley County
 Mr. Tony Cowan
 1310 Ave. H
 Levelland 79336
 LEPC Phone: 806-894-6164
 Spill Phone: 806-894-6164
 E-Mail: tcowan@levellandtexas.org

Hood County-Electronic via Email
 Mr. Brian Fine
 201 W. Bridge
 Granbury 76048
 LEPC Phone: 817-579-3335 /
 817-579-3200
 Spill Phone: 911
 E-Mail: bfine@co.hood.tx.us

Hopkins County
 Mr. Carl Nix
 1286 Texas St.
 Sulphur Springs 75482
 LEPC Phone: 903-439-6217 op. 1 /
 903-438-4006
 Spill Phone: 903-438-4040 op. 1
 E-Mail: NA

Houston
 Mr. David Lamb
 600 Bradshaw
 Crockett 75835
 LEPC Phone: 936-544-7175
 Spill Phone: 911
 E-Mail: hcoem@valomet.com

Howard County
 Mr. Terry Chamness
 400 E. 4th St.
 Big Spring 79720
 LEPC Phone: 432-264-2561
 Spill Phone: 911
 E-Mail: tchamness@bigspringpd.net

Hudspeth County
 Ms. Patricia Garcia
 P. O. Box 68
 Sierra Blanca 79851
 LEPC Phone: 915-369-2321
 Spill Phone: 911
 E-Mail: patigarcia76@hotmail.com

Hunt County – Electronic via Email
 Mr. Richard Hill
 P. O. Box 1097
 Greenville 75403-1097
 LEPC Phone: 903-408-4246
 Spill Phone: 911
 E-Mail: rhill@huntcounty.net

Hutchinson County
 Ms. Lynda McClellan
 P. O. Box 5341
 Borger 79008-5341
 LEPC Phone: 806-273-0150
 Spill Phone: 911
 E-Mail: hutchinsonlepc@cableone.net

Irion County
 The Hon. Leon Standard
 P. O. Box 770
 Mertzon 76941
 LEPC Phone: 325-835-4361
 Spill Phone: 911
 E-Mail: leon.standard@co.irion.tx.us
 Web: www.co.irion.tx.us

Jack County
 Mr. Jeremy Jennings
 111 E. Archer
 Jacksboro 76458
 LEPC Phone: 940-567-2324
 Spill Phone: 911
 E-Mail: jdjennings@sbcglobal.net

Jackson County – Hard Copy
 Mr. Allan Friedrich
 115 W. Main, Room 104
 Edna 77557
 LEPC Phone: 361-782-3398
 Spill Phone: 911
 E-Mail: iceoc@co.jackson.tx.us

Jasper County
 Mr. Billy Ted Smith
 P. O. Box 2030
 Buna 77612
 LEPC Phone: 409-994-2543
 Spill Phone: 911
 E-Mail: billysmith@ih2000.net
 Web: www.ih2000.net/jasperem

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TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Jeff Davis County
 Mr. Mike Ward
 P. O. Box 1063
 Fort Davis 79734
 LEPC Phone: 432-426-3791
 Spill Phone: 911
 E-Mail: ward@draco.as.utexas.edu

Jefferson County – Hard Copy
 Mr. Greg Fountain
 1149 Pearl, 1st Floor
 Beaumont 77701
 LEPC Phone: 409-835-8757
 Spill Phone: 409-835-8411
 E-Mail: iclepc@co.jefferson.tx.us

Jim Hogg County
 Mr. Hon. Agapito Molina
 PO Box 729
 Hebronville 78361
 LEPC Phone: 361-527-3015
 Spill Phone: 911
 E-Mail: NA

Jim Wells County
 The Hon. Arnoldo Saenz
 200 N. Almond
 Alice 78332
 LEPC Phone: 361-668-5706
 Spill Phone: 911
 E-Mail: Lasaenz@thei.net

Johnson County-Elec. via Email
 Mr. Gerald Mohr
 1800 Ridge Mar
 Cleburne 76033
 LEPC Phone: 817-556-6346
 Spill Phone: 817-648-4033
 E-Mail: gmohr@johnsoncountytexas.org
 Web: www.johnsoncountytexas.org

Jones County – Elec. via Email
 Mr. Buddy Pope
 P. O. Box 148
 Anson 79501
 LEPC Phone: 325-823-2256
 Spill Phone: 911
 E-Mail: buddy.pope@co.jones.tx.us

Karnes County
 ATTN: LEPC Chairperson
 200 E. Calvert
 Karnes City 78118
 911 Coordinator Phone: 830-780-3461
 Spill Phone: 911
 E-Mail: fleal@sbccglobal.net / sharon.chesser@co.karnes.tx.us

Kaufman County-Elec. via Email
 Ms. Kathy Morris
 3003 S Washington
 Kaufman 75142
 LEPC Phone: 469-376-4124
 Spill Phone: 911
 E-Mail: kmorris@kaufmancounty.net

Kendall County
 Mr. Mark Mattick
 400 E. Blanco
 Boerne 78006
 LEPC Phone: 830-249-8645
 Spill Phone: 830-249-8645
 E-Mail: mmattick@ci.boerne.tx.us
 Web: www.ci.boerne.tx.us

Kenedy County-Electronic via Email
 Mr. Tomas Sanchez
 P. O. Box 10
 Sarita 78385
 LEPC Phone: 361-294-5205
 Spill Phone: 361-294-5205 /
 E-Mail: tsanchez@interconnect.net

Kent County-Electronic via Email
 The Hon. Jim C. White
 P. O. Box 6
 Jayton 79528
 LEPC Phone: 806-237-3373
 Spill Phone: 806-237-3801
 E-Mail: kencoldg@caprock-spur.com

Kerr County-Electronic via Email
 The Hon. Pat Tinley
 700 E. Main St.
 Kerrville 78028
 LEPC Phone: 830-792-2211
 Spill Phone: 911
 E-Mail: cojudge@co.kerr.tx.us

Kimble County
 Mr. Andrew Murr
 501 Main St.
 Junction 76849
 LEPC Phone: 325-446-2724 /
 325-446-2766
 Spill Phone: 911
 E-Mail: andrew.murr@co.kimble.tx.us

King County
 The Hon. Duane Daniel
 P. O. Box 127
 Guthrie 79236
 LEPC Phone: 806-596-4411
 Spill Phone: 806-596-4413
 E-Mail: kjudge@caprock-spur.com

Kinney County
 Mr. Chris Keith
 P. O. Box 1499
 Brackettville 78832
 LEPC Phone: 830-563-9090
 Spill Phone: 911
 E-Mail: NA

Kleberg County-Electronic via Email
 Mr. Tomas Sanchez
 P. O. Box 1088
 Kingsville 78364-1088
 LEPC Phone: 361-675-0096
 Spill Phone: 361-595-8500
 E-Mail: tsanchez@interconnect.net

Knox County-Electronic via Email
 The Hon. Travis Floyd
 P. O. Box 77
 Benjamin 79505-0077
 LEPC Phone: 940-459-2191
 Spill Phone: 911
 E-Mail: tfloyd@srcaccess.net

La Salle County
 The Hon. Joel Rodriguez, Jr.
 P. O. Box 340
 Cotulla 78014
 LEPC Phone: 830-879-4430
 Spill Phone: 830-879-3044 or 3041
 E-Mail: NA

Lamar County
 Mr. B. J. McCoy
 125 Brown Ave.
 Paris 75460
 LEPC Phone: 903-737-2400
 Spill Phone: 903-737-2400
 E-Mail: NA

Lamb County-Electronic via Email
 Ms. Gina Streety
 106th Dr., County Courthouse Rm 109
 Littlefield 79339
 LEPC Phone: 806-385-4222 /
 806-385-3173
 Spill Phone: 911
 E-Mail: lamb_county_emc@hotmail.com

Lampasas County
 Ms. Angela Rainwater
 P. O. Box 1730
 Lampasas 76550
 LEPC Phone: 512-556-4177
 Spill Phone: 911
 E-Mail:

Lavaca County
 Mr. James Myrick
 306 S. LaGrange
 Hallettsville 77964
 LEPC Phone: 361-798-5628
 Spill Phone: 361-798-6470
 E-Mail: james.myrick@co.lavaca.tx.us

Lee County
 Mr. L. E. "Buster" Dussetschleger
 P. O. Box 188
 Lexington 78947
 LEPC Phone: 979-773-2268
 Spill Phone: 361-542-2800
 E-Mail: leeconstable@reviellbroadband.com

Leon County
 Mr. Pat Bell
 P. O. Box 808
 Centerville 75833
 LEPC Phone: 903-536-2331
 Spill Phone: 911
 E-Mail: patbell@co.leon.tx.us

Liberty County
 Hon. Phil Fitzgerald
 1923 Sam Houston St., Rm. 201
 Liberty 77575
 LEPC Phone: 936-336-4665
 Spill Phone: 911
 E-Mail:

Limestone County-Elec. via Email
 Mr. Matt Groveton
 200 W. State St., Ste G-17
 Groesbeck 76642
 LEPC Phone: 254-729-5517
 Spill Phone: 911
 E-Mail: matt.groveton@co.limestone.tx.us

Lipscomb County
 The Hon. Willis Smith
 P. O. Box 69
 Lipscomb 79056
 LEPC Phone: 806-862-4131
 Spill Phone: 911/806-862-2611
 E-Mail: lipscombcoidge@amaonline.com

Live Oak County
 Mr. James Jungman
 P. O. Box 487
 George West 78022
 LEPC Phone: 361-449-1693
 Spill Phone: 911
 E-Mail: jwenggw@bcni.net

Llano County
 Mr. Ronald Moore
 100 W. Sandstone St., Suite 200A
 Llano 78643
 LEPC Phone: 325-247-2039
 Spill Phone: 911
 E-Mail: ronald.moore@co.llano.tx.us

Loving County
 Mr. Royce Creager
 P. O. Box 134
 Mentone 79754
 LEPC Phone: 432-377-2231
 Spill Phone: 432-377-2411
 E-Mail: creagerbarb@yahoo.com

Lubbock County
 The Hon. Tom Head
 P.O. Box 10536
 Lubbock, TX 79408
 LEPC Phone: 806-775-1595
 Spill: 806-775-2002
 E-mail: thead@co.lubbock.tx.us

Lynn County
 The Hon. H. G. Franklin
 P. O. Box 1167
 Tahoka 79373
 LEPC Phone: 806-561-4222
 Spill Phone: 911
 E-Mail: cojudge@co.lynn.tx.us

Madison County-Electronic via Email
 Ms. Shelly Butts
 101 W. Main, Rm. 110
 Madisonville 77864
 LEPC Phone: 936-348-2670
 Spill Phone: 911
 E-Mail: shelly.butts@madisoncountytexas.org

Marion County
 The Hon. Phil Parker
 102 W. Austin, Rm. 205
 Jefferson 75657
 LEPC Phone: 903-665-3261
 Spill Phone: 903-665-3271
 E-Mail:

Martin County
 The Hon. Charles Blocker
 P. O. Box 1330
 Stanton 79782-1330
 LEPC Phone: 432-756-2231
 Spill Phone: 911
 E-Mail: cblocker@crcom.net

Mason County
 The Hon. Jerry Bearden
 P. O. Box 1726
 Mason 76856
 LEPC Phone: 325-347-5556
 Spill Phone: 911
 E-Mail: masonjdg@tstar.net

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill. Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Matagorda County
 Mr. Bob Watts
 2200 7th St., 1st Floor
 Bay City 77414
 LEPC Phone: 979-245-5526
 Spill Phone: 911
 E-Mail: bwatts1946@yahoo.com

Maverick County
 Chief Rodriguez
 2558 El Indio Highway
 Eagle Pass 78852
 LEPC Phone: 830-757-4231
 Spill Phone: 911
 E-Mail: irodriguez@eaglepasstx.us

McCulloch County
 The Hon. Danny Neal
 199 Courthouse Sq, Rm. 302
 Brady 76825
 LEPC Phone: 325-597-0733 ext. 4
 Spill Phone: 911
 E-Mail: judgeneal@hotmail.com

McLennan County
 The Hon. Jim Lewis
 P. O. Box 1728
 Waco 76703-1728
 LEPC Phone: 254-757-5049
 Spill Phone: 911
 E-Mail: frankp@ci.waco.tx.us

McMullen County
 The Hon. Linda Lee Henry
 P. O. Box 237
 Tilden 78072
 LEPC Phone: 361-274-3341
 Spill Phone: 361-274-3311
 E-Mail: judge@grandriver.net

Medina County
 The Hon. Jim Barden
 1100 16th St., Rm. 101
 Hondo 78861
 LEPC Phone: 830-741-6015
 Spill Phone: 911
 E-Mail: countyjudge@medinacountytx.us

Menard County
 Mr. Jess Whitson
 P. O. Box 1038
 Menard 76859
 LEPC Phone: 325-396-4789
 Spill Phone: 911
 E-Mail: menardck@verizon.net

Midland County-Elec. via Email
 Mr. M. Dale Little
 2435 E. Hwy. 80
 Midland 79706
 LEPC Phone: 432-688-4160
 Spill Phone: 911
 E-Mail: dale_little@co.midland.tx.us

Milam County
 Ms. Susan Reindeers
 102 South Fanin, Suite 2
 Cameron, TX
 LEPC Phone: 254-697-7060
 Spill Phone: 911
 E-Mail: sreindeers@milamcounty.net

Mills County-Elec. via Email
 Mr. Robert Lindsay
 P. O. Box 450
 Goldthwaite 76844
 LEPC Phone: 325-648-3186
 Spill Phone: 911
 E-Mail: citymgr@centex.net

Mitchell County
 Mr. Patrick Toombs
 320 Pine St.
 Colorado City 79512
 LEPC Phone: 325-728-5261
 Spill Phone: 911
 E-Mail: ptoombs@co.mitchell.tx.us

Montague County-Elec. via Email
 The Hon. Ted H. Winn
 P.O. Box 475
 Montague 76251
 LEPC Phone: 940-894-2401
 Spill Phone: 911
 E-Mail: thwinn@hotmail.com
 Tier II Email: Kelly@mcnabbseed.com

Montgomery County-Elec. via Email
 Nicky Kelly
 9472 FM 1484
 Conroe 77303
 LEPC Phone: 936-523-3901
 Spill Phone: 911
 E-Mail: nicky.kelly@mctx.org

Moore County-Elec. via Email
 Mr. Tommy Brooks
 P.O. Box 438
 Dumas 79029
 LEPC Phone: 806-934-9520
 Spill Phone: 911
 E-Mail: tbrooks@ci.dumas.tx.us

Morris County-Elec. via Email
 Chief Doug Stanley
 110 Coffey
 Daingerfield 75638
 LEPC Phone: 903-645-2114
 Spill Phone: 911
 E-Mail: dstanley@classicnet.net

Motley County-Elec. via Email
 The Hon. Ed D. Smith
 P.O. Box 719
 Matador 79244
 LEPC Phone: 806-347-2334
 Spill Phone: 911
 E-Mail: esmith@caprock-spur.com

Nacogdoches County
 The Hon. Joe English
 101 W. Main, Ste. 170
 Nacogdoches 75961
 LEPC Phone: 936-560-7755
 Spill Phone: 911
 E-Mail: carol.moon@co.nacogdoches.tx.us

Navarro County-Elec. via Email
 Mr. Eric Meyers
 P.O. Box 1560
 Corsicana 75151
 LEPC Phone: 903-872-6571 or
 903-654-3396
 Spill Phone: 903-654-3001
 E-Mail: ermeyers@navarrocountyoem.org

Newton County
 The Hon. Truman Dougherty
 P. O. Drawer J
 Newton 75966
 LEPC Phone: 409-379-5691
 Spill Phone: 409-379-3636
 E-Mail: truman.dougherty@co.newton.tx.us

Nolan County
 Mr.
 P. O. Box 450
 Sweetwater 79556
 LEPC Phone: 325-235-4304
 Spill Phone: 911
 E-Mail:

Nueces County- Elec. via Email
 Chief Richard Hooks (LEPC Admin.)
 2406 Leopard St., Suite # 200
 Corpus Christi 78408
 LEPC Phone: 361-826-3960
 Spill Phone: 911
 E-Mail: marim@cctexas.com

Ochiltree County
 The Hon. Earl McKinley
 511 S. Main
 Perryton 79070
 LEPC Phone: 806-435-8031
 Spill Phone: 806-435-8000
 E-Mail: sbrown@ptsi.net

Oldham County
 The Hon. Donnie Allred
 P. O. Box 195
 Vega 79092
 LEPC Phone: 806-267-2607
 Spill Phone: 911
 E-Mail: dallred@amaonline.com

Orange County-Electronic via Email
 Orange County LEPC
 123 S. Sixth St.
 Orange 77630
 LEPC Phone: 409-882-7895
 Spill Phone: 911
 E-Mail: jkelley@co.orange.tx.us

Palo Pinto County
 Mr. Barry Gill
 109 North Oak
 Mineral Wells 76067
 LEPC Phone: 940-325-5762
 Spill Phone: 911
 E-Mail: emc-fm@co.palo-pinto.tx.us

Panola County
 Mr. Jim Young
 110 S. Sycamore, Rm. 108
 Carthage 75633
 LEPC Phone: 903-693-0360
 Spill Phone: 903-693-0333
 E-Mail: jim.young@co.panola.tx.us

Parker County
 Mr. George Teague
 202 West Oak
 Weatherford 76086
 LEPC Phone: 817-598-4282
 Spill Phone: 911
 E-Mail: gteague@weatherfordtx.gov

Parmer County
 Ms. Donna Mitchell, EMC
 P. O. Box 277
 Bovina 79009
 LEPC Phone: 806-225-7078 or
 806-251-1678
 Spill Phone: 911
 E-Mail: nannvd@yahoo.com

Pecos County
 The Hon. Joe Shuster
 103 W. Callaghan
 Fort Stockton 79735
 LEPC Phone: 432-336-2792
 Spill Phone: 911
 E-Mail: judge@co.pecos.tx.us

Polk County – Electronic via Email
 Ms. Courtney Comstock
 602 E. Church St., Suite 165
 Livingston 77351
 LEPC Phone: 936-327-6826
 Spill Phone: 911
 E-Mail: emcpolk@livingston.net
 Tier II E-mail: ttertwo@co.polk.tx.us

**Potter & Randall Cos. & Amarillo-
Electronic via Email**
 Mr. Kevin Starbuck, EMC
 P. O. Box 1971
 Amarillo 79105-1971
 LEPC Phone: 806-378-3004
 Spill Phone: 911
 Tier II E-Mail: lepc@amarillo.gov
 OWM Website: oem.amarillo.gov

Presidio County
 The Hon. Jerry Agan
 P. O. Box 606
 Marfa 79843
 LEPC Phone: 432-729-4452
 Spill Phone: 911
 E-Mail: presidiocounty@att.net

Rains County
 The Hon. Joe R. Dougherty
 P. O. Box 158
 Emory 75440
 LEPC Phone: 903-473-5000 x 282
 Spill Phone: 911
 E-Mail: joe.dougherty@co.rains.tx.us

Randall County-Electronic via Email
 Mr. Kevin Starbuck, EMC
 P. O. Box 1971
 Amarillo 79105-1971
 LEPC Phone: 806-378-3004
 Spill Phone: 911
 Tier II E-Mail: lepc@amarillo.gov
 OEM Website: oem.amarillo.gov

Reagan County
 The Hon. Larry Isom
 P. O. Box 100
 Big Lake 76932
 LEPC Phone: 325-884-2665
 Spill Phone: 325-884-2424
 E-Mail: btucker@reagancounty.org

Real County
 The Hon. W.B. Sansom
 P. O. Box 446
 Leakey 78873
 LEPC Phone: 806-232-5304
 Spill Phone: 911
 E-Mail: hubbard@co.real.tx.us

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Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Red River County-Elec. via Email

The Hon. Morris Harville
 400 N. Walnut
 Clarksville 75426
 LEPC Phone: 903-427-2680
 Spill Phone: 903-427-3838
 E-Mail: redriver0001@yahoo.com

Reeves County

Mr. Ricardo Herrera
 700 Doggett, Ste. E. Box 11
 Pecos 79772
 LEPC Phone: 432-447-3542
 Spill Phone: 911
 E-Mail: reevesem@nwl.net

Refugio County-Electronic via Email Coastal Plain LEPC

The Hon. Rene Mascaro
 808 Commerce, Rm. 104
 Refugio 78377
 LEPC Phone: 361-526-4434
 Spill Phone: 361-526-2351
 E-Mail: macypepper@hotmail.com

Roberts County

The Hon. Vernon Cook
 P. O. Box 478
 Miami 79059
 LEPC Phone: 806-868-3721
 Spill Phone: 911
 E-Mail: vernon.cook@co.roberts.tx.us

Robertson County

Mr. Bill Huggins
 P. O. Box 427
 Franklin 77856
 LEPC Phone: 979-828-3542
 Spill Phone: 911
 E-Mail: bhuggins@emc@yahoo.com

Rockwall County

The Hon. Chris Florance
 1101 Ridge Rd., Ste. 202
 Rockwall 75087
 LEPC Phone: 972-882-2885
 Spill Phone: 911
 E-Mail: bbell@rockwallcountytexas.com

Runnels County

The Hon. Marilyn Egan
 613 Hutchings Ave., Room 103
 Ballinger 76821
 LEPC Phone: 325-365-2633
 Spill Phone: 911
 E-Mail: runnelsemc@tx.us.net

Rusk County

Ms. Patty Sullivan
 115 N. Main, Ste. 500-A
 Henderson 75652
 LEPC Phone: 903-657-0326
 Spill Phone: 911
 E-Mail: patricia.sullivan@co.rusk.tx.us

Sabine County

The Hon. Charles Watson
 P. O. Box 716
 Hemphill 75948
 LEPC Phone: 409-787-3543
 Spill Phone: 911
 E-Mail: charles.watson@co.sabine.tx.us

San Augustine County

The Hon. Randy Williams
 100 W. Columbia, Rm. 203
 San Augustine 75972
 LEPC Phone: 936-275-2762
 Spill Phone: 936-275-2424
 E-Mail:

San Jacinto County

The Hon. Fritz Faulkner
 1 State Hwy. 150, Rm. 5
 Cold Spring 77331
 LEPC Phone: 936-653-4331
 Spill Phone: 911
 E-Mail: NA

San Patricio County-Elec. Via Email Coastal Plain LEPC

Mr. William E. Zagorski, Sr.
 300 N. Rachal St.
 Sinton 78387
 LEPC Phone: 361-364-9650
 Spill Phone: 911
 E-Mail: macypepper@hotmail.com

San Saba County

Ms. Marsha Hardy
 500 E. Wallace, #111
 San Saba 76877
 LEPC Phone: 325-372-5600 /
 325-372-8570
 Spill Phone: 911
 E-Mail: emergencymgmt@sansabacounty.org

Schleicher County

Mr. Jerry J. Jones
 P. O. Box 820
 Eldorado 76936
 LEPC Phone: 325-853-2314
 Spill Phone: 911
 E-Mail: eldomc@msn.com

Scurry County

The Hon. Rod Waller
 1806 25th St., Ste. 200
 Snyder 79549
 LEPC Phone: 325-573-8576
 Spill Phone: 911
 E-Mail: scjjudge@snydertex.com

Shackelford County

The Hon. Ross Montgomery
 P. O. Box 2797
 Albany 76430
 LEPC Phone: 325-762-2232 ext. 4
 Spill Phone: 911
 E-Mail: jddgeross@sbcglobal.net

Shelby County – Electronic via Email

The Hon. John Tomlin
 200 San Augustine St.
 Center 75935
 LEPC Phone: 936-598-3863
 Spill Phone: 911
 E-Mail: cojudge@co.shelby.tx.us

Sherman County

The Hon. Terri Beth Carter
 P. O. Box 165
 Stratford 79084
 LEPC Phone: 806-366-2021
 Spill Phone: 911
 E-Mail: cojudge@co.sherman.tx.us

Smith County

Mr. Jim Seaton
 11325 Spur 248
 Tyler 75707
 LEPC Phone: 903-590-2653
 24 hr #: 903-566-6600
 Spill Phone: 911
 E-Mail: mthompson@smith-county.com

Somervell County

Mr. Ronald Hankins
 P. O. Box 1335
 Glen Rose 76043
 LEPC Phone: 254-897-2277
 Spill Phone: 911
 E-Mail: attorney@vallonet.com

Starr County

Gene Falcon
 100 N. FM 3167, Ste. 202
 Rio Grande City 78582
 LEPC Phone: 956-716-4800
 Spill Phone: 911
 E-Mail: falconeugenio@yahoo.com

Stephens County

Mr. George Rodgers
 105 N. Rose
 Breckenridge 76424
 LEPC Phone: 254-559-8287
 Spill Phone: 911
 E-Mail: rogermc@wtconnect.com

Sterling County

Mr. Delmar Radde, Jr.
 P. O. Box 577
 Sterling City 76951
 LEPC Phone: 325-378-2021
 Spill Phone: 911
 E-Mail: NA

Stonewall County

Mr. Jimmy Pitcock
 P. O. Box 834
 Aspermont 79502-0834
 LEPC Phone: 940-989-3393
 Spill Phone: 911
 E-Mail: NA

Sutton County – Hard Copy

Ms. Carla Gamer
 P. O. Box 1212
 Sonora 76950
 LEPC Phone: 325-387-2711
 Spill Phone: 911
 E-Mail: NA

Swisher County-Electronic via Email

The Hon. Harold Keeter
 Swisher County Courthouse
 119 S. Maxwell
 Tulia 79088
 LEPC Phone: 806-995-3504
 Spill Phone: 911
 E-Mail: harold.keeter@swisher-tx.net

Tarrant Count- Electronic via Email

Mr. Juan Ortiz
 1000 Throckmorton St.
 Fort Worth 76102
 LEPC Phone: 817-392-6171
 Spill Phone: 911
 E-Mail: oem@fortworthgov.org

Taylor County - Email Only

Ms. Pam Young
 400 Oak Street, Suite 107
 Abilene 79602
 LEPC Phone: 325-674-1393
 Spill Phone: 911
 E-Mail: tlepc@taylorcountytexas.org

Terrell County

The Hon. Leo Smith, Jr.
 P. O. Box 4810
 Sanderson 79848
 LEPC Phone: 432-345-2525
 Spill Phone: 911
 E-Mail: cojudge@co.terrell.tx.us

Terry County-Electronic via Email

Mr. Mitch McElroy, EMC
 201 W. Broadway
 Brownfield 79316
 LEPC Phone: 806-637-4547
 Spill Phone: 911
 E-Mail: mdmcelroy@valonet.com

Throckmorton County

The Hon. Trey Carrington
 P. O. Box 700
 Throckmorton 76483
 LEPC Phone: 940-849-3081
 Spill Phone: 911
 E-Mail: cojudgethrock@tqncable.com

Titus County

Hon. Sam W. Russell
 100 W. First, #200
 Mt. Pleasant 75455
 LEPC Phone: 903-577-6791
 Spill Phone: 911
 E-Mail: NA

Tom Green County Electronic via Email

Ms. Teresa Covey
 8485 Hangar Rd.
 San Angelo 76904
 LEPC Phone: 325-657-4230
 Spill Phone: 911
 E-Mail: teresa.covey@sanangelotexas.us

Travis County

Ms. JoAnn Dunlap
 C/O Austin Fire Dept.
 One Texas Center, Suite 200
 505 Barton Springs Road
 Austin 78704
 LEPC Phone: 512-974-0182
 Spill Phone: 911
 E-Mail: pete.baldwin@co.travis.tx.us

Trinity County

The Hon. Mark Evans
 P. O. Box 457
 Groveton 75845
 LEPC Phone: 936-642-1746
 Spill Phone: 911
 E-Mail: tcjudge@consolidated.net

Tyler County

Emergency Management Office
 201 Veterans Way, Rm. 19
 Woodville 75979
 LEPC Phone: 409-331-0874
 Spill Phone: 911

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill. Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

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**Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010**

E-Mail:
Upshur County
The Hon. Dean Fowler
P. O. Box 730
Gilmer 75644
LEPC Phone: 903-843-4003
Spill Phone: 911
E-Mail:
dean.fowler@countyofofupshur.com

Upton County
The Hon. Vikki Bradley
P. O. Box 482
Rankin 79778
LEPC Phone: 432-693-2321
Spill Phone: 911
E-Mail: NA

Uvalde County
The Hon. William Mitchell
Courthouse Plaza, Box 3
Uvalde 78801
LEPC Phone: 830-278-3216
Spill Phone: 911
E-Mail: wrmci@uvaldecountry.com

Val Verde County
Ms. Emma Mansfield
400 Pecan St.
Del Rio 78841
LEPC Phone: 830-774-7501
Spill Phone: 911
E-Mail:
otila_gonzalez@valverdecounty.org

Van Zandt County-Elec. via Email
Mr. Chuck Allen, EMC
1220 W. Dallas St.
Canton 75103
LEPC Phone: 903-567-4133 x 482
Spill Phone: 911
E-Mail: callen@vanzandtcountry.org

Victoria County
Mr. Jeb Lacey
P. O. Box 1758
Victoria 77901
LEPC Phone: 361-485-3362
Spill Phone: 911
E-Mail: jlacey@victoriatx.org

Walker County-Electronic via Email
Ms. Sherri Pegoda
1100 University Ave., Ste. 204
Huntsville 77340
LEPC Phone: 936-436-4910
Spill Phone: 911
E-Mail: spegoda@co.walker.tx.us

Waller County
The Hon. Owen Ralston
836 Austin, Ste. 203
Hempstead 77445
LEPC Phone: 979-826-7700
Spill Phone: 911
E-Mail: bkn1505@aol.com

Ward County
The Hon. Greg Holly
400 S. Allen, Suite 100
Monahans 79756-4600
LEPC Phone: 325-943-3200
Spill Phone: 911
E-Mail: NA

Washington County-Elec. Via Email
Mr. Robert Smith
1305 East Blue Bell Road Ste 112
Brenham 77833
LEPC Phone 979-277-6288
979-337-1412
Spill Phone: 911
E-Mail: rsmith@wacounty.com
Tier2 Email: tier2@wacounty.com

Webb County Email
Mr. Andres Butler
1110 Washington St., Ste. 303
Laredo 78040
LEPC Phone: 956-523-4055
Spill Phone: 911
E-Mail: abutler@webbcountytx.gov

Wharton County
Mr. Andy Kirkland
116 E. Burleson, Rm. 102
Wharton 77488
LEPC Phone: 979-532-1123
Spill Phone: 911
E-Mail: andy.kirkland@co.wharton.tx.us

Wheeler County
Mr. Ken Daughtry
P. O. Box 375
Wheeler 79096
LEPC Phone: 806-826-3777
Spill Phone: 911
E-Mail: kideoc@hotmail.com

Wichita County
Mr. Lee Bourgoin
110 Jefferson Street
Wichita Falls 76306-7140
LEPC Phone: 940-763-0820
Spill Phone: 911
E-Mail: lee.bourgoin@co.wichita.tx.us

Wilbarger County
Mr. Charles Stewart
P.O. Box 1718
Vernon 76385
LEPC Phone: 940-357-9115
Spill Phone: 911
E-Mail: wilbargercountymc@att.net

Willacy County
Mr. Eddie Chapa
P. O. Box 365
Raymondville 78580
LEPC Phone: 956-689-3321
Spill Phone: 911
E-Mail: echapa@willacycounty.org

Williamson County
Mr. Jarred Thomas
P. O. Box 873
Georgetown 78627
LEPC Phone: 512-943-3747
Spill Phone: 911
E-Mail: 0

Wilson County Electronic via Email required
Ms. LeAnn Hosek
EMC/911 Coordinator
800 10th St. Bldg. B
Floresville 78114
LEPC Phone: 830-393-8351
Spill Phone: 911
E-Mail: jeannema@felipsis.net

Winkler County
The Hon. Bonnie Leck
P. O. Drawer Y
Kermit 79745
LEPC Phone: 432-586-6658
Fax: 432-586-3223
Spill Phone: 911
E-Mail: bleck@co.winkler.tx.us

Wise County
The Hon. Bill McElhaney
P. O. Box 393
Decatur 76234
LEPC Phone: 940-627-5743
Spill Phone: 911
E-Mail: coludge@co.wise.tx.us

Wood County
Mr. Randy Selman
P. O. Box 938
Quitman, TX 75783
LEPC Phone: 903-763-2356
Spill Phone: 911
E-Mail: rselman@co.wood.tx.us

Yoakum County
Mr. Carl Whittaker
P. O. Box 456
Plains 79355
LEPC Phone: 806-456-7491
Spill Phone: 911
E-Mail: NA

Young County
Mr. Matt Pruitt
315 N. Cliff Dr.
Graham 76450
LEPC Phone: 940-549-1777
Spill Phone: 940-549-1555
E-Mail: m.pruitt@youngcounty.org

Zapata County
Chief J.J. Messa
P. O. Box 831
Zapata 78076
LEPC Phone: 956-765-9942
Spill Phone: 911
E-Mail: NA

Zavala County
The Hon. Joe Luna
200 E. Uvalde St., Ste 9
Crystal City 78839
LEPC Phone: 830-374-3810
Spill Phone: 911
E-Mail: joe.luna@co.zavala.tx.us

Note: **Spill Phone** is the emergency number a facility should call to report a CERCLA or EPCRA hazardous chemical spill. Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

THIRD PARTY UTILITY OR PIPELINES

Field Team Area	Third Party Utility or Pipeline Company Name	Emergency Contact Number
ALL	Burlington Northern Santa Fe Railroad	800-832-5452
ALL	Canadian Pacific Railway	800-777-4499
Mt.Belvieu	CenterPoint Energy - Houston	800-332-7143
Mt. Belvieu	Constellation New Energy	888-635-0827
Mt.Belvieu	Entergy Gulf States Inc	800-368-3749
Mt. Belvieu	Florida Gas Transmission Company	800-238-5066
Mt.Belvieu	Sam Houston Electric	800-458-0381
Sour Lake	Entergy	800-968-8243
Sour Lake	Florida Gas Transmission Company	713 654-7836
West Texas	Atmos Energy	800-692-4694
West Texas	Big Country Electric Cooperative	325-573-3161
West Texas	Cap Rock Electric	800-442-8688
West Texas	Central Valley Elec Coop Inc	505-746-3571
West Texas	Comanche Co Electric	800-915-2533
West Texas	Concho Valley Electric Cooperative	325-655-6957
West Texas	Constellation New Energy	888-635-0827
West Texas	Lea County Electric Coop	505-396-3631
West Texas	South Plains Electric Cooperative, Inc.	806-741-4200
West Texas	Southwest Texas Electric Coop, Inc.	325-853-2544
West Texas	Taylor Electric Cooperative	325-928-4715
West Texas	Xcel Energy	800-895-1999
Wortham	Comanche Co Electric	800-915-2533
Wortham	Constellation New Energy	888-635-0827
Wortham	HILCO - Hill County Electric Cooperative, Inc.	254-687-2331
Wortham	Houston County Electric Coop	936-544-5641
Wortham	Rusk County Electric Cooperative	903-657-4571
Wortham	Sam Houston Electric	800-458-0381
Wortham	Southwestern Electric Power Co.	877-373-4858
Wortham	Tri-County Electric Membership Cooperative (TX)	817-444-3201
Wortham	Trinity Valley Electric Cooperative, Inc.	972-932-2214
Wortham	Wise Electric Cooperative	888-627-9326

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

MONT BELVIEU TEAM TELEPHONE LIST

10126 Highway 146 N Mont Belvieu, TX 77580 (281) 385-7801 - Office				P. O. Box 690 Mont Belvieu, TX 77580 (281) 385-2088 - Fax	
First Name	Last Name	Job Title	E-MAIL ID	Office Phone Number	Cellular Phone Number
Richard	Lucas	Ops Manager	RLUC	713-432-3362	(b) (6)
Michael	Smith	Team Leader	MDMS	281-385-7822	
Mark	Clamon	Ops Supervisor	CLMN	281-385-7820	
Ronnie	Callaway	Ops Supervisor	RCTI	281-385-7824	
Robbey	Boatright	I&E Specialist	RWBO	281-385-7825	
Joseph	Navarre	Pipeline Operator	JNSS	281-385-7843	
Carl	Sams	Pipeline Operator	CNSA	281-385-2088	
David	Battise Jr.	Pipeline Operator	AEYR	281-385-7817	
Shane	White	Pipeliner	TDPC	281-385-7805	
David	Brock	Pipeline Operator	DBPQ	281-385-7843	
Larry	Pitman	Operator	LPFT	n/a	
James	Beaty	Operator	JDXR	281-385-7803	
Charles	Grassau	Pipeline Operator	CGSR	n/a	
Robert	Ojeda	Pipeline Operator	OJED	281-385-7804	
Roger	Coleman	Pipeline Operator	RRCR	281-385-7819	
Cu	Hoang	I&E Specialist	CIIT	n/a	
Richard	Tarltan	Pipeline Operator	RUPZ	n/a	
Charles	Goodman	I&E Specialist	GOOC	n/a	
Karen	Oliver	Office Assistant	KSOL	281-385-7801	
Ricardo	Albanese	Project Coordinator	ARIB	281-385-7827	
Cody	Cain	Pipeliner	CFVN	n/a	
Steven	DePrang	Pipeliner	TGQE	n/a	
Jason	Janak	Pipeline Operator	JKJA	281-385-7837	
Dale	May	Sr. I&E Specialist	MRMY	281-385-7811	
Brandon	Shellhammer	Facility Inspector	BTWP	n/a	
Matthew	Andel	I&E Specialist	NQSX	n/a	
Pete	Compean	CP Specialist	PCOM	281-385-7818	
Robert	Keith	Project Coordinator	RKEI	281-385-7810	
James	Mixon	Project Coordinator	MIXO	281-385-7806	
Jose	Torres	Mechanic	JTOQ	281-385-7821	
Kenneth	Anglin	Facility Inspector	KAJD	n/a	
Guillermo	Contreras	Pipeliner	GCSF	n/a	
Garrett	Gilbreath	Trainee	GGNU	n/a	
Mike	Laughlin	Facility Inspector	MLAU	281-385-7808	
Mark	Nivens	Facility Inspector	MRNI	281-385-7812	

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION**

Tony	Wo	I&E Specialist	AWOJ	832-418-5214	(b) (6)
Matthew	Oldham	Project Coordinator	OLDH	281-385-7800	
Carlos	Benavides	I&E Specialist	CFNZ	n/a	
Darrell	Crosson	I&E Specialist	DCEQ	281-385-7816	
Nicky	Gothia	Maintenance Coord.	NLGO	281-385-7815	
Sean	Macallister	Facility Inspector	TUKF	832-418-5216	
Robert	Rinche	I&E Specialist	RWWP	281-385-7802	

Name	Title	E-Mail/CAI	Direct Line	Cellular	Home	Nextel Number / DC
Delaney, Gerald	Patrol Pilot			(b) (6)		
Anderson, David	Patrol Pilot					
Kirbyville Airport Fax #	409-489-0229					
Gulf Coast Office	281-383-2998					
Lynchburg	281-424-4112					
Cedar Bayou	281-421-6500					
Livingston	936-685-4411					
Targa Terminal Operations	281-385-3155					
Targa Galena Park	713 450-7215					
Chemicals Controller	713-432-2307					
LPG Controller	713-432-2309					
One Call Phone	281-917-7260					
Conference Room	281-385-7841					
Polycom	281-385-7836					

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

SOUR LAKE TEAM TELEPHONE LIST

Physical Address: 1330 Gulf Road, Sour Lake, Texas 77659				Midstream Profit Center	
First Name	Last Name	Job Title	E-MAIL ID	Office Phone Number	Cellular Phone Number
Richard	Lucas	Ops Manager			(b) (6)
David	Smith	Field Team Leader	DASR	409-951-4427	
Kimberly	Muscarello	Business Support Specialist	KVBS	409-951-4431	
Brian	Parrack	Ops Supervisor	BPHT	409-951-4404	
Chelsea	Hoke	Pipeliners	CEYW	n/a	
Link	Brown Jr.	Pipeline Operator	LINK	409-287-2735	
Jerod	Sims	Pipeliners	KIUI	n/a	
Chad	Basham	Pipeline Operator	CBKK	n/a	
Jeff	Petry	Pipeline Operator	JEFP	409-951-4413	
John	Galbreath	Facility Inspector	JYXJ	n/a	
Mark	Van Etta	Project Coordinator	MRVA	409-951-4418	
Chris	Veltz	I&E Specialist	CJVE	409-951-4419	
Regina	Bobb	Maintenance Coordinator	REGB	409-951-4401	
Joshua	Williams	Pipeliners	KJJS	n/a	
Colt	North	Pipeliners	CQBB	409-951-4415	
Kevin	Gipson	Trainee	GIPK	n/a	
Gary	Johnson	Facility Inspector	GJHC	n/a	
Andrew	Burks	I&E Specialist	BVLB	409-951-4430	
Stephen	Dischler	I&E Specialist	SJDI	409-951-4410	
James	Laramore	Trainee	KZZG	409-951-4405	
Erik	Fregia	Pipeliners	EFCV	409-951-4406	
Steve	Woodie	Sr. Corrosion Specialist	TGIY	409-951-4412	

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****Additional Listing**

Office / Other	Address	Polycom/Conf. Rm	Phone	Fax	
CPL Sour Lake Office	P.O. Box 338, Sour Lake TX 77659	409-287-3320	409-287-2735	409-287-2743	
CPL Mont Belvieu Office	P.O. Box 690, Mt. Belvieu TX 77580		281-385-7800	281-385-2088	
CPCC Port Acres Junction	403 FM 365, Port Arthur TX 77640		409-736-0470	409-736-9258	
CPCC Port Arthur Dock	2001 S. Gulfway Drive, Pt. Arthur TX		409-985-3951	409-985-9503	CPCC Pt. Arthur Docks
Mickey A. Driver	Pgr: (800) SKY-PAGE, #2220826	Cell: (b) (6)	713-754-2285	713-754-2016	Houston Public Affairs

Henry Leger, Louisiana HES Specialist – DOT, Office: 713-572-3771, Home: (b) (6), Cell: (b) (6)

CPCC Port Arthur Dock Chief Operators: Paul R. Burk, Mark L. Camille, & Joe C. Pirtle

CPL Chemicals Console: Phone: 713-432-2307, Emergency: 800-762-3404, Fax: 713-432-2775

Controllers: Jason Bouy [DBQY], Kevin Langlois [KLHL], Tim Provens [TPGQ], Susan Brittain [SUBR]

Hardin Co. Sheriff's Office: 409-246-3441

Jefferson County Sheriff's Office: 409-835-8411

DPS: 409-898-0770

KCSI

Charlie Miller (Chief Pilot), Cell: (b) (6) Ofc: 432-368-4500

Gerald Delaney (Pilot), Cell: (b) (6)

Butler and Associates: Third Party Inspections

Wayne Butler: Cell (b) (6) Home: (b) (6)

Brant Griffin: Cell:

Billy Flowers: Cell:

Baytown Airport: 281-573-9996

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

BEAUMONT QUALIFIED INDIVIDUAL(S) INITIAL RESPONSE TEAM (IRT) (24 HOUR CONTACT INFORMATION)

3900 Highway 366 , Nederland, TX 77627				P. O. Box 237, Nederland, TX 77627			
Response Position	Name	Travel Time To Terminal	Job Title	Home Address	Office	Home	Cell/Pager
*IC/OPS	Baumann, Thomas E.	45 Minutes	Shift Supervisor	(b) (6)	409-724-3278	(b) (6)	
Gen. Staff	Bozilleri, John A.	10 Minutes	Electrical Technician		409-724-3316		
Gen. Staff	Brasher, Danielle	25 Minutes	Volumetric Analyst		409-724-3288		
Gen. Staff	Broussard, Joseph	60 Minutes	Shift Supervisor		409-724-3278		
Gen. Staff	Bryant, Terryl	35 Minutes	Mechanic		409-724-3335		
LOG	Byrd, Eddie J.	25 Minutes	Shift Supervisor		409-724-3278		
PLAN	Castleman, Billy D.	30 Minutes	Maintenance Supervisor		409-724-3264		
Gen. Staff	Clark, Henry E., Jr.	90 Minutes	Advanced Electrical Eng.		409-724-3274		
*IC/OPS	Connally, Jack	45 Minutes	Pipe Line Technician		409-724-3366		
Gen. Staff	Finley, Robert	35 Minutes	Engineer		409-724-3368		
Gen. Staff	Fontenot, Kevin	30 Minutes	Shift Supervisor		409-724-3278		
Gen. Staff	Granger, Stephanie	30 Minutes	Engineer		409-724-3265		
*IC/OPS	Guidry, J.W. (Wally)	60 Minutes	Project Foreman		409-724-3358		
Gen. Staff	Guidry, Katherine	30 Minutes	Office Assistant		409-724-3220		
LNO	Herman, Michelle	20 Minutes	Environmental Specialist		409-724-3321		
SSO	Hibbits, Thomas A.	25 Minutes	Shift Supervisor		409-724-3278		
OPS	Higginbotham, N.A. (Adam)	50 Minutes	Shift Supervisor		409-724-3245		
Gen. Staff	Hollar, Walter	15 Minutes	Pipeliners		409-724-3330		
Gen. Staff	Job, Billy L.	15 Minutes	Safety Specialist		409-724-3268		
Gen. Staff	Jones, Robert, B.	15 Minutes	Electrical Technician		409-724-3334		
Gen. Staff	Maxwell, Mark	15 Minutes	Customer Service Rep.		409-724-3209		
Gen. Staff	McGowin, A. (Nita)	10 Minutes	Customer Service Rep.		409-724-3215		
Gen. Staff	Milner, Bill	30 Minutes	Shift Supervisor		409-724-3278		
Gen. Staff	Plokhoo, Diana R.	10 Minutes	Volumetric Analyst		409-724-3395		
Gen. Staff	Sadler, Lynn	15 Minutes	Environmental Specialist		409-724-3353		
*IC/SSO	Singletary, William	25 Minutes	Safety Specialist		409-724-3344		
Gen. Staff	Jackson, Stewart	20 Minutes	Volumetric Analyst		409-724-3232		
FIN	Tomlin, Jan A.	30 Minutes	Super. Term. Accounting		409-724-3226		
*IC	Whitten, Ed	15 Minutes	Manager, Bmt. Terminal		409-724-3311		

* **Qualified Individuals**

Incident Commanders (IC) are issued On Scene Incident Commander HAZWOPER cards and are designated as qualified individuals for Chevron Pipe Line and have full authority to:

- **Activate and engage in contracting with oil spill removal organization(s).**
- **Act as Liaison with the pre-designated Federal On-Scene Coordinator (OSC); and**
- **Obligate funds required to carry out response activities.**

Incident Commanders are qualified to fill any open Section Chief's role.

Note: Section Chiefs and General Staff will be appointed at the time of the incident by the Incident Commander/Terminal Manager.

IC – Incident Commander, SSO – Site Safety Officer, OPS – Operations Section Chief, LOG – Logistics, PLAN – Planning, FIN – Finance, LNO – Liaison

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

WEST TEXAS TEAM TELEPHONE LIST

West Texas Team Midland			West Texas Roscoe		
15 Smith Road			1426 CR 135		
Midland, TX 79705			Roscoe, TX 79545		
Phone: 432-687-7563			FAX: 432- 687-7876		
CSC LPG CONTROLLERS 713-432-2309					
CORPORATE SECURITY 713-754-3236					
24 HOUR EMERGENCY NUMBER 800/762-3404					
First Name	Last Name	Job Title	E-MAIL ID	Office Phone Number	Cellular Phone Number
Cooper	East	Ops Manager	EASC	713-432-6934	(b) (6)
Alexander	Gene	Field Team Leader	AGDO	432-687-7788	
Cindy	Johnson	Office Assistant	JOCY	432-687-7563	
Virginia	DeLaney	Office Assistant	VMDE	325-766-3656	
Greg	Peden	Ops Manager	GPED	432-687-7545	
Randy	Adamez	Maintenance Coord.	RAAD	432-687-7697	
Bryan	Connor	I&E Specialist	BPVG	n/a	
Bodie	Landes	Pipeline Operator	BLWH	n/a	
Justin	Middlemas	Pipeler	KQWT	432-687-7151	
Scott	Shirley	Project Coordinator	WSSH	432-687-7148	
Philip	Bacon	Pipeler	PDNU	432-263-3179	
Jay	Cromeens	I&E Specialist	JAYC	432-263-3179	
Donald	Martinez	Facility Inspector	DNSQ	n/a	
Ronnie	Ornelas	Project Coordinator	EORN	432-687-7277	
Fernando	Velasco	Pipeler	FVBV	432-687-7413	
Brad	Campbell	Pipeler	BWMK	325-514-9850	
Rey	Gutierrez	Pipeler	RXHW	n/a	
Denis	Orr	I&E Specialist	ORRD	325-766-3656	
Charles	Zachry	Pipeline Mechanic	CZAM	432-687-7596	
Matthew	Bacon	Pipeler	NYVK	432-687-7151	
Arthur	Carrasco	Facility Inspector	ARTU	432-687-7890	
Lyndel	Hudson	Trainee	HULY	432-582-2151	
Larry	Riddle	CP Specialist	LRID	432-687-7565	
Jesi	Brock	Trainee	KYRJ	432-263-3179	
Allan	Rascon	Trainee	EEMC	432-687-7963	
Bob	Young	Ops Supervisor	RYAF	432-363-1035	

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****West Texas Team Telephone List Continued:****Additional Listing**

Name	Title	Office	Mobile	Home
GILLILAND, W. M. (Mac)	Contractor - Inspector		(b) (6)	(b) (6)
MUNIZ, Raul	Contractor - E. D. Walton			
STOREY, Alan	Contractor - Patrol Pilot	432/ 368-4500		

Facility	Address	Phone	Numbers	Fax
CSC LPG CONTROLLERS		713-432-2304		
Abilene	502 Hardison Lane Abilene TX 79602	325-692-5706		325-692-1169
Coahoma Station	2201 Morgan Ranch Rd Big Spring TX 79720	432-263-3179	432-267-6120 432-238-8805	432-267-6124
Hobbs	<i>Mailing:</i> P O Box 633 Hobbs NM 88240 (2405 N. Grimes)	575-738-0218 575-738-0215		505-492-0011
Keystone Gas Storage	P O Box 1076 Kermit TX 79745	432-586-8804	Answering Svc: 432-333-5878	432-586-9761
Midland	15 Smith Road Midland TX 79705	432-687-7563		432-687-7876
Odessa	911-A West 2nd Street Odessa TX 79763	432-582-2151	432-582-2159 432-582-2170	432-580-7620
Roscoe	1426 CR 135 Roscoe TX 79545	325-766-3656 325-766-3426	325-766-3519 325-766-3565	325-766-3573
CORPORATE SECURITY		713-754-3236		713-899-4966

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

WORTHAM TEXAS TELEPHONE LIST

Name	Title	Work Location	E-Mail ID	Office Phone Number	Cellular Phone Number	Home Phone Number
ADAMEZ, C.S. (Cody)	Pipeliners	Weatherford	CFXM	(817) 613-0027	(b) (6)	
BAILEY, JM (Jason)	PIM Project Mgr	Wortham	JBWJ	(254) 765-3261		
BOWERS, DM (Dan)	Operator	Lufkin	DBJY	(936) 634-5844		
CANTERBURY, A C (Cathy)	Office Assistant	Wortham	CCNT	(254) 765-3210		
CARTER, S C (Sammy)	Operator	Lufkin	SCRT	(936) 634-5844		
COCKERELL, J.M. (Marlon)	F.I.	Wortham	KJVH	(254) 765-3261		
COODEY, JK (Josh)	I&E Spec	Lufkin	JEKG	(936) 634-5844		
COSSABONE, GA (Alan)	I&E Spec	Weatherford	GCHW	(817) 613-0027		
DANNA, M.N. (Michael)	F.I.	Lufkin	MDAN	(936) 634-5844		
DEVAULT, B K (Brian)	I&E Spec	Wortham	KDEV	(254) 765-3348		
GOOLSBY, H.D. (David)	Sr. Operator	Weatherford	HADG	(817) 596-4861		
GREER, J.C. (Jared)	F.I.	Weatherford	JYVM	(817) 613-0027		
GULLICKSON, D.L. (Darrel)	Mechanic	Weatherford	LGUL	(817) 613-0027		
HAMIL, C.C.(Clayton)	Pipeliners	Wortham	CIJK	(254) 765-3261		
HICKS, W.M.(William)	Pipeliners	Weatherford	WHHP	(817) 613-0027		
HUGHES, J.B. (Jeffrey)	CP Specialist	Wortham	JHRD	(254) 765-3261		
ISAACSON, T.J. (Tim)	F.I.	Weatherford	TIIS	(817) 613-0027		
JARRELL, D. (Donny)	Operator	Eastland	DOMJ	(254) 629-8670		
JORDAN, J.M. (Josh)	Pipeliners	Lufkin	KCUF	(254) 629-8670		
KISTLER, D. (David)	Operator	Wortham	DKQO	(254) 765-3261		
MAY, R. (Robert)	PIM Const.	Wortham	MAYR	(254) 765-3261		
McKIBBEN, N.N. (Nathan)	Mechanic	Wortham	NUVY	(254) 765-3261		
PHINNY, S W (Steve)	Operator	Kilgore	SWPH	(903) 984-9763		
SMITH, C.W. (Smitty)	Operator	Weatherford	CWSM	(817) 594-6272		
STARK, K. (Kimberly)	Op Supv	Weatherford	KSZT	(817) 613-0027		
STERLING, D.S. (David)	Team Leader	Weatherford	DASS	(817) 596-4861		
TOOMBS, J. (Jeanie)	Contract OA	Weatherford	TNJE	(817) 613-0027		
VEGA, B. (Benny)	Operator	Weatherford	CXDP	(817) 613-0027		
WILKINSON, D.R. (Dave)	Maint. Coord.	Wortham	DARW	(254) 765-3261		
WINDER, W.E. (Wayne)	Safety/OE Spec.	Wortham	WWFC	(254) 765-3261		
WRIGHT, A.W. (Allan)	Project Coor	Weatherford	AWWR	(817) 613-0028		

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****Additional Listing**

Facility Listings	Phone #'s	Fax
Wortham	(254) 765-3261, 765-3280, 765-3210, 765-3348	(254) 765-3408
Weatherford Station	(817) 594-6272; 596-4861; 613-0027; 613-0028	(817) 613/0026
Springtown Booster	(817) 594-5631	
Milsap Booster	(940) 682-7478	
Cleburne	(817) 645-2275	(817) 645-8124
Fairfield	(903) 389-3741	
Dawson	(254) 578-1521	
Lufkin	936-634-5844; 634-6582; 634-6583	(936) 634-8547
Salmon	(903) 478-3434	
Eastland	(254) 629-8670	(254) 629-0965
Van	(903) 963-8686	(903) 963-5691
Phinny Booster	(936) 326-8991	
HES HOTLINE	(877) 863-5196	
AXIOM	877-502-9466	

Satellite phones
(b) (6)

Contractors	
Tommy Dickerson	(903) 681-4839
Tom Lucas	(281) 216-9415

TEXAS STATE APPENDIX

FRONT POCKET INFORMATION

SATELLITE PHONES

Control Center					
ESN Dec	MSN	Ph #	Data #	Ph # 800	Location
8988169414000657518	300224010033530	(b) (6)	881693473431	(b) (6)	Phone 1 NGAS
8988169414000657526	300224010038500		881693473424		Phone 2 NWCP
8988169414000657534	300224010132330		881693473425		Phone 3 BPCC
8988169414000657542	300224010133330		881693473427		Phone 4 LALC
8988169414000657559	300224010036960		881693473426		Phone 5 GLFC
8988169414000657567	300224010032800		881693473428		Phone 6 CHEM
8988169414000657575	300224010034950		881693473429		Phone 7 LPG
8988169414000657583	300224010032510		881693473430		Phone 8 TSCP

Beaumont Terminal					
ESN Dec	MSN	Ph #	Data #	Ph # 800	Location
8988169414000657211	300214010870750 881641473465	(b) (6)	8666078206	(b) (6)	Katherine Guidry
8988169414000657229	300214010976910 881641473463		8666114537		

Midland, TX					
ESN Dec	MSN	Ph #	Data #	Ph # 800	Location
8988169414000772234	300214010978920	(b) (6)	881693473484	(b) (6)	Cindy Johnson/Midland TX
8988169414000772218	300214010977910		881693473483		
8988169414000772309	300214010977920		881693473482		

Sour Lake					
ESN Dec	MSN	Ph #	Data #	Ph # 800	Location
8988169414000449825	300214010636550 881641473537	(b) (6)	881693473537	(b) (6)	Regina Bobb

Wortham Team	
011-881631580290	
011-881631580293	Lufkin

TEXAS STATE APPENDIX**FRONT POCKET INFORMATION****OSRO CONTACT INFORMATION****Regional Contacts**

Company	Locations	Type of Contract	24-Hour Phone	Fax
ES&H	Pasadena, TX	CPL	877-437-2634	281-448-6602
Garner Environmental	Houston, TX LaMarque, TX Port Arthur, TX	CPL	800-424-1716	281-478-0296
Industrial Cleanup, Inc. (ICI)	Garyville, LA Westwego, LA Lafayette, LA Lake Charles, LA	CPL	504-535-2697 504-363-8126	504-535-3262
Ampol	Gulf Coast	CPL	800-842-6765	

National Contacts

Company	Locations	Type of Contract	24-Hour Phone	Fax
Reidel	Primarily west of Mississippi River.	Chevron	800-334-0004	
MSRC/CGA 980 West Lincoln Road Lake Charles, LA 70605-0635	Lafayette, LA, plus 12 other Gulf Coast locations.	Chevron	318-837-7400 888-242-2700	
Oil Mop, Inc.			800-645-6671	
Clean Gulf Associates (CGA)			888-242-2007	
Marine Spill Response Corporation (MSRC)			888-242-2007	
ES&H			877-437-2634	
Philip Services, Corp.			888-631-9652	
Garner Environmental Services, Inc.			800-975-2444	
Ampol			800-482-6765	

COMPANY PLAN DEFINITION



COMPANY EMERGENCY RESPONSE PLAN

TEXAS STATE APPENDIX TEXAS RESPONSE ZONE

DOT/PHMSA Sequence Number 217

Beaumont Terminal EPA Docket No. FRP-06-TX-00197

**THIS STATE APPENDIX ALONG WITH THE CORE PLAN
ESTABLISHES EMERGENCY RESPONSE PLANNING CRITERIA FOR:**

CHEVRON PIPE LINE COMPANY

CHEVRON PIPE LINE BEAUMONT TERMINAL

CHEVRON MIDSTREAM PIPELINES, LLC (FORMERLY TEXACO PIPELINES LLC)

BRIDGELINE HOLDINGS, L.P. (BHLP)

NECHES GAS DISTRIBUTION COMPANY (NGDC)

SABINE PIPE LINE (SPLLLC)

TEXACO EXPLORATION AND PRODUCING INC. (TEPI)

CHEVRON PETROCHEMICAL PIPELINE, LLC

CHEVRON KEYSTONE GAS STORAGE, LLC

CHEVRON CORPORATION

(HEREIN REFERRED TO AS "COMPANY")

Prepared by:

Chevron Pipe Line Company

4800 Fournace Place

Bellaire, TX 77401

(800) 762-3404 or (877) 596-2800

REGULATORY COMPLIANCE

This Plan combined with the Core Plan in addition to implementing Company policy, addresses the following Federal requirements:

- Oil Pollution Act of 1990: 49 CFR 194 Response Plans for Onshore Oil Pipelines (Department of Transportation).
- Oil Pollution Act of 1990: Bureau of Safety and Environmental Enforcement - Spill Response Plans for Offshore Facilities including State Submerged Lands and Pipelines.
- Oil Pollution Act of 1990: 33 CFR Parts 150 and 154 Response Plans for Marine Transportation Related Facilities (USCG).
- Oil Pollution Act of 1990: 40 CFR Parts 9 and 112 Oil Pollution Prevention; Non-Transportation Related Onshore Facilities (USEPA).
- Bureau of Safety and Environmental Enforcement – Notice to Leases (NTL) 92-04.
- Department of Transportation 49 CFR 192.615 Emergency Plans.

A cross reference between the format of this Plan and applicable regulations is provided in the State Appendix.

QI / CERTIFICATION OF RESOURCES STATEMENT**CERTIFICATIONS****Qualified Individual**

Chevron Pipe Line Company (Company) is authorizing all of its employees who are trained in Incident Command and who are functioning as the Incident Commander (IC) to be the Qualified Individual (QI). This financial authority is unique to spills and emergency releases and is not a part of the Company's routine delegation of authority guidelines.

In the event of an oil spill or emergency release, Company employees who will be responding as Incident Commanders (IC/QIs) have the authority to:

1. Activate the Emergency Response Plan.
2. Activate and engage in contracting with oil spill removal organizations. Commit resources from within the Company, through the Corporate Oil Spill Coordinator/Staff, outside contractors, MSRC, cooperatives, and as directed by the Federal or State On-Scene Coordinator.
3. Act as liaison with Federal or State On-Scene Coordinator and other Federal and State officials.
4. Obligate funds required to carry out all necessary or directed response activities.

The response organization is critical to the management of an emergency response because of the large geographic areas covered by the Company. Immediate response in remote areas is managed by local personnel who may be replaced by additional personnel if the magnitude of the spill warrants. The response of the additional personnel may take some time due to geography. It is impossible to name the specific individual who will be IC in advance. It will depend on the location of the spill, the size of the spill, and whether it is the initial response or a later phase in the clean up process.

Various federal and state agencies have recognized the need for owners/operators who use a tiered response to allow for the transfer of authority upward as the extent of a spill is assessed. Agencies also acknowledge that response efforts often involve 24- hour efforts, and authorities must be transferred in this "shift" works situation.

National Contingency Plan / Area Contingency Plan Consistency

Company (Operator) certifies that it has reviewed the National Contingency Plan (NCP) and each applicable Area Contingency Plan, and that this Emergency Response Plan is consistent with the existing NCP and each existing applicable ACP.

Per applicable geographical areas, the following Area Contingency Plans have been reviewed for consistency with Company's Emergency Response Plan:

- US EPA Region 6 Integrated ACP (Facilities in Texas and New Mexico)
- South Louisiana/Acadia Region ACP (Morgan City)
- New Orleans/Baton Rouge ACP
- US EPA Region 8 ACP (Facilities in Utah and Colorado)
- US EPA Region 9 Regional Contingency Plan (Facilities in California)
- US EPA Region 10 ACP (Facilities in Idaho, Oregon and Washington)
- San Francisco Oil Spill Contingency Plan (N. California Bay Area Facility)
- Los Angeles/Long Beach ACP (S. California Los Angeles Facility)

CERTIFICATION OF RESOURCES

The Company hereby certifies to the Pipeline Hazardous Materials Safety Administration (PHMSA) of the Department of Transportation that we have identified and ensured by contract or other means to be approved by the PHMSA, the availability of private personnel and equipment to respond, to the maximum extent practicable, up to and including a worst case discharge or a substantial threat of such a discharge.

STATEMENT OF SIGNIFICANT AND SUBSTANTIAL HARM

The Company hereby submits to the Pipeline Hazardous Materials Safety Administration of the Department of Transportation that we have identified, as required by 49 CFR, Part 194.107 and Part 194.103, the pipeline sections in each Response Zone that can be expected to cause significant and substantial harm to the environment in the event of a discharge of oil or products into or on navigable waters, adjoining shorelines, public drinking water intakes, or other environmentally sensitive areas. Each pipeline segment meeting the significant harm definition is identified, as required, in the applicable State Appendices.

Signature: Lonnie Evans

Date: 15 Mar 2010

Printed Name and Title: Lonnie Evans, CEM, Emergency Response Specialist
4800 Fournace Place, Rm. E320B, Bellaire, TX 77401-2324
Tel 713-432-3406, LonnieJEvans@chevron.com

DOT/PHMSA APPROVAL LETTER



U.S. Department
of Transportation

**Pipeline and
Hazardous Materials Safety
Administration**

May 10, 2005

400 Seventh Street, S.W.
Washington, D.C. 20590

Certified Mail -7003 3110 0003 2602 9832-Return Receipt Requested

Mr. Tracy Long
ChevronTexaco Pipeline Company
2811 Hayes Road
Houston, TX 77082

Re: OPS Plan Sequence Numbers

210	Core Plan
189	Louisiana Response Zone
206	California Response Zone
211	Northwest Response Zone
217	Texas Response Zone

Dear Mr. Long,

Your Facility Response Plan (FRP) is approved in accordance with 49 CFR Part 194, *Response Plans for Onshore Transportation-Related Oil Pipelines*. The Pipeline and Hazardous Materials Safety Administration (PHMSA) commends you for developing a plan that reflects the characteristics of your company, the facility it operates, and the environment it strives to protect. In approving your plan, we have determined that your January and March 2005 revisions have adequately addressed the findings in our letter dated 25 January 2005. On the basis of the information we reviewed, your response plan now satisfies the minimum response planning standards established by 49 CFR Part 194.

We accept as true all information in the plan but reserve the right to verify its validity and accuracy. We will advise you of any deficiencies discovered during our ongoing quality control activities and you will have the opportunity to correct such deficiencies.

Response planning is an ongoing process. The preparation, submission, review, and approval of a response plan are only the first steps in the process of developing an effective national response planning program. We will continue to help you refine and improve your plan. We trust that you will continue to improve your plan as you gain new knowledge and discover better practices, whether through responses to actual spills or through evaluations of drills and exercises.

Note that this approval will expire on May 10, 2010, which is five years from the date of this letter. Although we have approved the plan, we expect you to maintain your plan's compliance with 49 CFR 194, including making and submitting any required revisions to the plan as specified in 49 CFR 194.121(a) and (b).

Ext. # 9301

File # 2355, 2406

Act. # 9068

Please refer to the "OPS Plan Sequence Numbers" listed above in all plan-related correspondence, including e-mails. E-mail is the preferred method for submitting inquiries, questions and comments to me at le.herrick@dot.gov. You can also telephone me at (202) 366-5523 or fax me at (202) 366-4566. Thank you for your cooperation.

Sincerely,


L. E. Herrick
Response Plans Officer

Enclosure

cc: EPA IV, EPA VI, EPA VIII, EPA IX, EPA X, MSO Morgan City, MSO New Orleans, MSO Port Arthur, MSO Galveston/Houston and MSO LA/LB.

Ext. # 9301

File # 2355, 2406

Act. # 9060

UPDATE/REVISION NOTICE**Revision # 0003****To All Holders of the Texas State Appendix****Revision Date: August 2003****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included in this file.
- This sheet contains instructions for switching out pages in your Texas State Appendix Emergency Response Plan. Please follow the attached flowchart. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator Tracy Long via e-mail when you have completed updating your ERP.

Remove Existing Pages	Replace With New Print Out Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this State Appendix 	Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic versions of this State Appendix provided
Front Pocket Information <ul style="list-style-type: none"> • Remove entire document 	Front Pocket Information <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided (back to back) • Print page 7 single sided • Print page 8 single sided 11 X 17 • Print pages 9 through 38 double sided (back to back) • Staple the complete set and insert into the front pocket of the Plan
Section 1 Information Summary <ul style="list-style-type: none"> • Remove 11 X 17 color Team Map on page 1 	Section 1 Information Summary <ul style="list-style-type: none"> • Replace with new 11 X 17 color Team Map on page 1 <p>A replacement copy of the 11 X 17 color Team Map has been provided for your convenience - insert as page 1</p>
Section 2, Notifications <ul style="list-style-type: none"> • Remove pages: <ul style="list-style-type: none"> • 3/4 • 5/6 	Section 2, Notifications <ul style="list-style-type: none"> • Print pages 3 and 4 double sided • Print pages 5 and 6 double sided
Section 3, Resources <ul style="list-style-type: none"> • Remove page 21 	Section 3, Resources <ul style="list-style-type: none"> • Print pages 21 single sided

UPDATE/REVISION NOTICE

Revision # 0003**To All Holders of the Texas State Appendix****Revision Date: August 2003**

Remove Existing Pages	Replace With New Print Out Pages
Front of Book	
Once your update process is completed, print this Update/Revision Notice double sided and add this update notice to your State Appendix Front of Book.	
Notify the Emergency Response Coordinator Tracy Long via e-mail when you have completed updating your ERP	

UPDATE NOTICE**Revision # 0004****To All Holders of the Texas State Appendix****Revision Date: February 2004****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included in this file.
- This sheet contains instructions for updating your Texas State Appendix Emergency Response Plan. Please follow the attached flowchart. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail at ptsdoug@hazassist.com.

Remove Existing Pages	Replace With New Print Out Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this State Appendix 	Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic version of this State Appendix provided
Front Pocket Information <ul style="list-style-type: none"> • Remove entire document 	Front Pocket Information <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided (back to back) • Print page 7 single sided • Print page 8 single sided 11 X 17 • Print pages 9 through 38 double sided (back to back) • Staple the complete set and insert into the front pocket of the Plan
Front of Book <ul style="list-style-type: none"> • Remove Revision Log–Continued page (single sided) 	Front of Book <ul style="list-style-type: none"> • Print single sided and insert the Archive Plan Approval Letter (3 pages) following the Regulatory Compliance page • Print Revision Log–Continued single sided

Revision # 0004 To All Holders of the Texas State Appendix Revision Date: February 2004	
Table of Contents <ul style="list-style-type: none"> • Remove Front Pocket Information and Section 1 Table of Contents (double sided) • Remove Section 2 and Section 3 Table of Contents (double sided) • Remove Section 8C and Section 8D Table of Contents (double sided) 	Table of Contents <ul style="list-style-type: none"> • Print Front Pocket Information and Section 1 Table of Contents (double sided) • Print Section 2 and Section 3 Table of Contents (double sided) • Print Section 8C and Section 8D Table of Contents (double sided)
Section 1, Information Summary <ul style="list-style-type: none"> • Remove Table of Contents (single sided) • Remove 11 X 17 color Team Map on page 1 • Remove 11 X 17 color Area 2 map on page 3 • Remove pages 4 through 21 (end) (double sided) 	Section 1 Information Summary <ul style="list-style-type: none"> • Print Table of Contents single sided • A replacement copy of the 11 X 17 color Team Map has been provided for your convenience - insert as page 1 • A replacement copy of the 11 X 17 color Area 2 Map has been provided for your convenience - insert as page 3 • Print new pages 4 through 19 (double sided) • Print page 20 single sided
Section 2, Notifications <ul style="list-style-type: none"> • Remove Table of Contents (single sided) • Remove page 3/4 (double sided) • Remove pages 10-24 (end) (double sided) 	Section 2, Notifications <ul style="list-style-type: none"> • Print Table of Contents single sided • Print page 3/4 double sided • Print pages 10-21 double sided • Print page 22 single sided in color
Section 3, Resources <ul style="list-style-type: none"> • Remove page 13/14 (double sided) • Remove page 21 (single sided) 	Section 3, Resources <ul style="list-style-type: none"> • Print pages 13/14 double sided • Print page 21 single sided

Revision # 0004**To All Holders of the Texas State Appendix****Revision Date: February 2004****Section 8D, West Texas Sensitive Info/Maps**

- Remove Table of Contents
- Remove the following Maps/Keys:
 - Crane County Map (1 page)
 - Culberson County Key (2 pages)
 - Culberson County Map (1 page)
 - El Paso County Key (13 pages)
 - El Paso County Map (1 page)
 - Hudspeth County Key (4 pages)
 - Hudspeth County Map (1 page)
 - Reeves County Key (2 pages)
 - Reeves County Map (1 page)
 - Upton County Key (2 pages)
 - Upton County Map (1 page)
 - Winkler County Map (1 page)

Section 8D, West Texas Sensitive Info-Maps

- Print Table of Contents

Front of Book

Once your update process is complete, print this Update/Revision Notice single sided and insert this update notice behind any previous update notices in your State Appendix Front of Book.

Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.

UPDATE/REVISION NOTICE**Revision # 0005****To All Holders of the Texas State Appendix****Revision Date: May 2004****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included.
- This sheet contains instructions for updating your Texas State Appendix Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: doug.flaherty@ptseps.com.

Remove Existing Pages	Replace with New Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Texas State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Texas State Appendix provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled packet 	Front Pocket Information <ul style="list-style-type: none"> • Entire stapled packet
Table of Contents Index Tab <ul style="list-style-type: none"> • Front Pocket Information with Sections 1, and 2 and 3 Table of Contents (2 double sided pages) • Sections 8C and 8D Table of Contents (1 double sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Front Pocket Information with Sections 1, and 2 and 3 Table of Contents (2 double sided pages) • Sections 8C and 8D Table of Contents (1 double sided page)
Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents (1 single sided page) • Pages 10 through 22 (double sided) 	Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents (1 single sided page) • Pages 10 through 39 (double sided)
Section 8D, West Texas Sensitive Information Maps <ul style="list-style-type: none"> • Table of Contents page (1 single sided page) 	Section 8D, West Texas Sensitive Information Maps <ul style="list-style-type: none"> • Table of Contents page (1 single sided page)
Front of Book Once your update process is completed, insert this Update/Revision Notice in your Texas State Appendix Front of Book following any previous update notices.	
Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0006****To All Holders of the Texas State Appendix****Revision Date: September 2004****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included in this file to print.
- This sheet contains instructions for updating your Texas State Appendix Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: doug.flaherty@ptseps.com.

Remove Existing Pages	Replace with New Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Texas State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Texas State Appendix provided
Front Pocket Information <ul style="list-style-type: none"> • Remove entire document 	Front Pocket Information (Complete new document) <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided Print page 7 single sided • Print page 8 single sided 11 X 17 • Print pages 9 through 52 double sided • Print page 53 single sided • Staple the complete set and insert into the front pocket of the Plan
Front of Book <ul style="list-style-type: none"> • Remove Revision Log–Continued page (single sided) 	Front of Book <ul style="list-style-type: none"> • Print Revision Log–Continued single sided
Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 2 and 3 Table of Contents (1 double sided page) • Section 9 Table of Contents (1 single sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Print Sections 2 and 3 Table of Contents double sided • Print Section 9 Table of Contents single sided

Revision # 0006 To All Holders of the Texas State Appendix Revision Date: September 2004	
Section 2, Notifications <ul style="list-style-type: none"> Remove entire section 	Section 2, Notifications (Complete new section) <ul style="list-style-type: none"> Print the title page single sided Print the Table of Contents single sided Print pages 1 through 8 double sided Print page 9 single sided 11 X 17 Print pages 10 through 39 double sided
Section 3, Resources <ul style="list-style-type: none"> Remove pages 9 through 12 	Section 3, Resources <ul style="list-style-type: none"> Print pages 9 through 12 double sided
Section 9, Hurricane Plan <ul style="list-style-type: none"> Remove entire section 	Section 9, Hurricane Plan (Complete new section) <ul style="list-style-type: none"> Print the title page single sided Print the Table of Contents single sided Print pages 1 through 10 double sided
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following any previous update notices.	
Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0007 - RSPA Control #217****To: All Holders of the ChevronTexaco Pipeline Company Texas State Appendix****Revision Date: January 2005****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included in this file to print.
- This sheet contains instructions for updating your Texas State Appendix Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: doug.flaherty@ptseps.com.

Remove Existing Pages	Replace with New Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Texas State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Texas State Appendix provided
Front Pocket Information <ul style="list-style-type: none"> • Remove entire document 	Front Pocket Information (Complete new document) <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided • Print page 7 single sided • Print page 8 single sided 11 X 17 • Print pages 9 through 54 double sided • Staple the complete set and insert into the front pocket of the Plan
Front of Book <ul style="list-style-type: none"> • Remove laminated title page (single sided) 	Front of Book <ul style="list-style-type: none"> • Print in color the title page single sided and laminate it.

Revision # 0007 - RSPA Control #217**To: All Holders of the ChevronTexaco Pipeline Company Texas State Appendix****Revision Date: January 2005**

Table of Contents Index Tab <ul style="list-style-type: none"> Remove entire Table of Contents 	Table of Contents Index Tab <ul style="list-style-type: none"> Print Sections 1 and 2 Table of Contents double sided (1 double sided page) Print Sections 3 (2 pages) Table of Contents double sided (1 double sided page) Print Section 4 (2 pages) Table of Contents double sided (1 double sided page) Print Sections 5 and 6 Table of Contents double sided (1 double sided page) Print Sections 7 and 8A Table of Contents double sided (1 double sided page) Print Sections 8B and 8C Table of Contents double sided (1 double sided page) Print Sections 8D and 8E Table of Contents double sided (1 double sided page) Print Section 8F (2 pages) Table of Contents double sided (1 double sided page) Print Sections 8G and 9 Table of Contents double sided (1 double sided page)
Section 1, Information Summary <ul style="list-style-type: none"> Table of Contents page (1 single sided page) Pages 1 through 3 color 11 X 17 maps Pages 4 through 20 	Section 1, Information Summary <ul style="list-style-type: none"> Print the Table of Contents single sided Enclosed are pages 1 thru 3 color 11 X 17 color maps Print pages 4 through 16 double sided Print page 17 single sided 8 1/2 X 11 color
Section 2, Notifications <ul style="list-style-type: none"> Table of Contents page (1 single sided page) Pages 10 through 38 	Section 2, Notifications <ul style="list-style-type: none"> Print the Table of Contents single sided Print pages 10 through 39 double sided
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following any previous update notices.	
Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0008****To: All Holders of the ChevronTexaco Pipeline Company Texas State Appendix****RSPA Control #217 Texas Response Zone****Revision Date: March 2005****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included in this file to print.
- This sheet contains instructions for updating your Texas State Appendix Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: doug.flaherty@ptseps.com.

Remove Existing Pages	Replace with New Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Texas State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Texas State Appendix provided
Front Pocket Information <ul style="list-style-type: none"> • Remove entire document 	Front Pocket Information (Complete new document) <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided • Print page 7 single sided • Print page 8 single sided 11 X 17 • Print pages 9 through 56 double sided • Print page 57 single sided • Staple the complete set and insert into the front pocket of the Plan
Table of Contents Index Tab <ul style="list-style-type: none"> • Remove Table of Contents Section 1 and Section 2 (1 double sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Print Sections 1 and 2 Table of Contents double sided (1 double sided page)
Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents page (1 single sided page) • Pages 1/2 • Pages 16 through 39 	Section 2, Notifications <ul style="list-style-type: none"> • Print the Table of Contents single sided • Print pages 1/2 double sided • Print pages 16 through 43 double sided
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following any previous update notices.	
Notify the Emergency Response Coordinator, Tracy Long, via e-mail when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0009****To: All Holders of the ChevronTexaco Pipeline Company Texas State Appendix****RSPA Control #217 Texas Response Zone****Revision Date: August 2005****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- This sheet contains instructions for updating your Texas State Appendix Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

NOTE: This is an electronic update only; no CD will be issued at this time.

Remove Existing Pages	Replace with New Pages
Front Pocket Information <ul style="list-style-type: none"> • Remove pages 1/2 • Remove pages 5/6 	Front Pocket Information <ul style="list-style-type: none"> • Print pages 1/2 double sided • Print pages 5/6 double sided • Staple the complete set and insert into the front pocket of the Plan
Section 2, Immediate Notifications <ul style="list-style-type: none"> • Remove pages 3 through 6 	Section 2, Immediate Notifications <ul style="list-style-type: none"> • Print pages 3 through 6 double sided
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following any previous update notices. Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.	

Revision # 0010**To: All Holders of the ChevronTexaco Pipeline Company Texas State Appendix****OPS Control #217 Texas Response Zone****Revision Date: September 2005****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- This sheet contains instructions for updating your Texas State Appendix Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Existing Pages	Replace with New Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Texas State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Texas State Appendix provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document 	Front Pocket Information (Complete new document) <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided • Print page 7 single sided • Print page 8 as 11 X 17 • Print pages 9 through 46 double sided • Staple the complete set and insert into the front pocket of the State Appendix
Front of Book <ul style="list-style-type: none"> • Remove Archive Plan Approval Letter dated September 11, 2002, 3 single sided pages • Remove Archive Distribution List – Volume 1 Core Plan • Remove Archive Distribution List – Volume 2 	Front of Book <ul style="list-style-type: none"> • No replacement pages • No replacement page • No replacement page
Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 1 and 2 Table of Contents (1 double sided page) • Section 3 Table of Contents (1 double sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Print Sections 1 and 2 Table of Contents double sided • Print Section 3 table of contents double sided

Revision # 0010**To: All Holders of the ChevronTexaco Pipeline Company Texas State Appendix****OPS Control #217 Texas Response Zone****Revision Date: September 2005**

Section 1 Information Summary <ul style="list-style-type: none"> Remove page 2 – Response Area 1 Map, 11 X 17 color page Remove pages 6 through 9 	Section 1 Information Summary <ul style="list-style-type: none"> Print page 2 – Response Area 1 Map, 11 X 17 color page Print pages 6 through 9 double sided
Section 2, Notifications <ul style="list-style-type: none"> Table of Contents 1 single sided page Pages 24 through 43 	Section 2, Notifications <ul style="list-style-type: none"> Print Table of Contents single sided Print pages 24 through 31 double sided
Section 3, Resources <ul style="list-style-type: none"> Remove Table of Contents 1 double sided page Remove pages 15 through 21 	Section 3, Resources <ul style="list-style-type: none"> Print Table of Contents double sided Print pages 15 through 30 double sided Print page 31 single sided
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following previous update notices.	
Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com , when you have completed updating your ERP.	

UPDATE/REVISION NOTICE**Revision # 0011 – DOT/PHMSA Control #217****To: All Holders of the Chevron Pipeline Company Texas State Appendix****Revision Date: January 2006****Important – please read before you begin this update process:**

- Please have your hard copy of the Texas State Appendix available for reference to assist you in processing this update.
- All pages for your update are included in this file for printing.
- **This sheet contains instructions for updating your Texas State Appendix Emergency Response Plan. This process must be completed within 14 working days of receipt of this document. Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**
- **Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.**

Remove Existing Pages	Replace with New Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Texas State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Texas State Appendix provided
Manual Cover and Spine <ul style="list-style-type: none"> • Remove current manual cover and spine 	Manual Cover and Spine <ul style="list-style-type: none"> • Insert new current manual cover and spine provided
In front of the ERP laminated title page, insert the new plastic binder pocket provided. Insert the Front Pocket Information and new Beaumont Terminal ERAP into the plastic pockets as instructed below.	
Front Pocket Information <ul style="list-style-type: none"> • Remove entire document 	Front Pocket Information <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided • Print page 7 single sided 11 X 17 • Print pages 8 through 45 double sided • Print page 46 single sided • Staple the complete set and insert into new plastic binder pocket you inserted in the step above.
Beaumont Terminal ERAP	Beaumont Terminal ERAP (Emergency Response Action Plan) New to add: <ul style="list-style-type: none"> • Print the Beaumont Terminal Emergency Response Action Plan cover page single sided • Print the title page single sided • Print the Table of Contents double sided • Print pages 1 through 36 double sided • Enclosed pages 37, 38 and 39 single sided, 11 X 17 color • 3 hole punch and insert into blue folder and insert into the new plastic front binder pocket you inserted in the steps above
Front of Book <ul style="list-style-type: none"> • Remove laminated title page (single sided) 	Front of Book <ul style="list-style-type: none"> • Print title page in color single sided and laminate it

Revision # 0011 – DOT/PHMSA Control #217**To: All Holders of the Chevron Pipeline Company Texas State Appendix****Revision Date: January 2006**

Table of Contents Index Tab <ul style="list-style-type: none"> Remove entire Table of Contents 	Table of Contents Index Tab <ul style="list-style-type: none"> Print Sections 1A Table of Contents double sided (1 double sided page) Print Sections 1B (4 pages) Table of Contents double sided (2 double sided pages) Print Sections 1C (4 pages) Table of Contents double sided (2 double sided pages) Print Sections 2 and Section 3 Table of Contents double sided (1 double sided page) Print Sections 4 and Section 5 Table of Contents double sided (1 double sided page) Print Sections 6 and 7 Table of Contents double sided (1 double sided page) Print Sections 8A and 8B Table of Contents double sided (1 double sided page) Print Sections 8C and 8D and Table of Contents double sided (1 double sided page) Print Sections 8E and 8F Table of Contents double sided (1 double sided page) Print Sections 8G and 9 Table of Contents double sided (1 double sided page) Print Section 9 Table of Contents second page single sided (1 single sided page)
Section 1, Information Summary <ul style="list-style-type: none"> Remove entire section and the index tab 	Section 1A, Information Summary <ul style="list-style-type: none"> New index tab titled Section 1A Information Summary Print the title page single sided Print the Table of Contents double sided Enclosed are pages 1 thru 3 color 11 X 17 color maps Print pages 4 through 19 double sided Enclosed is page 20 color 11 X 17 color maps Print pages 21 through 24 double sided Print page 25 single sided
Section 1B, Beaumont Terminal	Section 1B, Beaumont Terminal New section to add <ul style="list-style-type: none"> New index tab titled Section 1B Beaumont Terminal Print the title page single sided Print the Table of Contents double sided (2 double sided pages) Print pages 1 through 82 double sided Print page 83 single sided Enclosed pages 84, 85 and 86 single sided 11 X 17 color maps

Revision # 0011 – DOT/PHMSA Control #217**To: All Holders of the Chevron Pipeline Company Texas State Appendix****Revision Date: January 2006**

Section 1C, Van Pipeline System	Section 1C, Van Pipeline System New section to add <ul style="list-style-type: none"> • New index tab titled Section 1C Van Pipeline System • Print the title page single sided • Print the Table of Contents double sided (2 double sided pages) • Print pages 1 through 54 double sided • Enclosed are 14 oversized maps of the Van Pipeline System
Section 2, Notifications <ul style="list-style-type: none"> • Remove entire section 	Section 2, Notifications <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided • Print page 7 single sided • Print page 8 single sided 11 X 17 • Print pages 9 through 30 double sided
Section 3, Resources <ul style="list-style-type: none"> • Remove entire section 	Section 3, Resources <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 4 double sided
Section 8D, Sensitive Information/Maps <ul style="list-style-type: none"> • Remove the Table of Contents (1 page) 	Section 8D, Sensitive Information/Maps <ul style="list-style-type: none"> • Print the Table of Contents single sided
Section 9, Hurricane Plan <ul style="list-style-type: none"> • Remove entire section 	Section 9, Hurricane Plan <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents double sided • Print pages 1 through 32 double sided
Agency Cross Reference <ul style="list-style-type: none"> • Remove entire section 	Agency Cross Reference <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 12 double sided
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following any previous update notices.	
Per Tracy Long, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.	

UPDATE/REVISION NOTICE

Revision # 0012 – DOT/PHMSA Control #217

To: All Holders of the Chevron Pipe Line Company Texas State Appendix

Revision Date: July 2006

Important – please read before you begin this update process:

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Please have your hard copy of the State Appendix available for reference to assist you in processing this update. All pages for your update are included in this file for printing.
- **Per Barry Staskywitz, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Existing Pages	Replace with New Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous electronic versions of this Texas State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new electronic versions of this Texas State Appendix provided
Manual Cover and Spine <ul style="list-style-type: none"> • Remove current manual cover and spine 	Manual Cover and Spine <ul style="list-style-type: none"> • Insert new manual cover and spine provided
Front Pocket Information <ul style="list-style-type: none"> • Remove entire document 	Front Pocket Information <ul style="list-style-type: none"> • Print the title page single sided • Print the Table of Contents single sided • Print pages 1 through 6 double sided • Print page 7 single sided 11 X 17 • Print pages 8 through 41 double sided • Staple the complete set and insert into new plastic binder pocket you inserted in the step above.
Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Remove Beaumont Terminal Emergency Response Action Plan page • Remove Table of Contents • Remove pages 1 through 8 	Beaumont Terminal (Emergency Response Action Plan) <ul style="list-style-type: none"> • Print the Beaumont Terminal Emergency Response Action Plan cover page single sided • Print the Table of Contents double sided • Print pages 1 through 8 double sided
Front of Book <ul style="list-style-type: none"> • Remove laminated title page (single sided) 	Front of Book <ul style="list-style-type: none"> • Print title page in color single sided and laminate it • New to add – Print single sided the DOT/PHMSA Letter of Approval dated May 10, 2005, 2 pages and insert behind QI/Certification of Resources/Significant & Substantial Harm Statement

Revision # 0012 – DOT/PHMSA Control #217 To: All Holders of the Chevron Pipe Line Company Texas State Appendix Revision Date: July 2006	
Table of Contents Index Tab <ul style="list-style-type: none"> Sections 2 and 3 Table of Contents (1 double sided page) Sections 8A and 8B Table of Contents (1 double sided page) Sections 8C and 8D Table of Contents (1 double sided page) Sections 8G and Section 9 first page (1 double sided page) Section 9 second page (1 single sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> Print Sections 2 and Section 3 Table of Contents double sided (1 double sided page) Print Section 8A and 8B Table of Contents double sided (1 double sided page) Print Sections 8C and 8D Table of Contents double sided (1 double sided page) Print Sections 8G and Section 9 first page Table of Contents double sided (1 double sided page) Print Section 9 second page double sided (1 single sided page)
Section 1A, Information Summary <ul style="list-style-type: none"> Remove pages 6/7 	Section 1A, Information Summary <ul style="list-style-type: none"> Print pages 6/7 double sided
Section 2, Notifications <ul style="list-style-type: none"> Remove entire section 	Section 2, Notifications <ul style="list-style-type: none"> Print the title page single sided Print the Table of Contents single sided Print pages 1 through 6 double sided Print page 7 single sided Print page 8 single sided 11 X 17 Print pages 9 through 28 double sided
Section 3, Resources <ul style="list-style-type: none"> Remove pages 3/4 	Section 3, Resources <ul style="list-style-type: none"> Print pages 3/4 double sided
Section 8A Sensitive Information Maps A-H index tab: <ul style="list-style-type: none"> Remove Table of Contents <p>Remove the following County Maps:</p> <ul style="list-style-type: none"> Anderson Andrews Angelina Callahan <p>(Keep Chambers County Map)</p> <ul style="list-style-type: none"> Cherokee Cherokee Crane Crockett Eastland Ector Ellis Erath Fort Bend Freestone Gregg <p>(Keep Hardin County Map)</p> <p>(Keep Harris County Maps – 4 pages)</p>	Section 8A Sensitive Information Maps A-H index tab: <ul style="list-style-type: none"> Print the Table of Contents single sided <p>No replacement maps</p> <p>Note: the maps that remain in this section are:</p> <ul style="list-style-type: none"> Chambers County Map Hardin County Map Harris County Maps – 4 pages

Revision # 0012 – DOT/PHMSA Control #217 To: All Holders of the Chevron Pipe Line Company Texas State Appendix Revision Date: July 2006	
Section 8B Sensitive Information Maps H-N index tab: <ul style="list-style-type: none"> Remove Table of Contents Remove the following County Maps: (Keep Harris County Maps – 4 pages) <ul style="list-style-type: none"> Henderson (Keep Hill County Map) <ul style="list-style-type: none"> Hood (Keep Houston County Map) <ul style="list-style-type: none"> Howard (Keep Jefferson County Maps – 3 pages) <ul style="list-style-type: none"> Johnson Leon (Keep Liberty County Maps – 2 pages) <ul style="list-style-type: none"> Martin Midland Mitchell (Keep Nacogdoches County Maps – 2 pages)	Section 8B Sensitive Information Maps H-N index tab: <ul style="list-style-type: none"> Print the Table of Contents single sided No replacement maps Note: the maps that remain in this section are: <ul style="list-style-type: none"> Harris County Maps – 4 pages Hill County Map Houston Jefferson County Maps – 3 pages Liberty County Maps – 2 pages Nacogdoches County Maps – 2 pages
Section 8C Sensitive Information Maps N-W index tab: <ul style="list-style-type: none"> Remove Table of Contents Remove the following County Maps: (Keep Navarro County Map) <ul style="list-style-type: none"> Nolan – 2 pages Palo Pinto (Keep Parker County Map) <ul style="list-style-type: none"> Pecos Polk – 2 pages (Keep Rusk County Map) <ul style="list-style-type: none"> Scurry (Keep Smith County Map) <ul style="list-style-type: none"> Somervell (Keep Tarrant County Map) <ul style="list-style-type: none"> Taylor Trinity (Keep Tyler County Map) (Keep Upshur County Map) <ul style="list-style-type: none"> Upton Van Zandt Ward Winkler 	Section 8C Sensitive Information Maps N-W index tab: <ul style="list-style-type: none"> Print the Table of Contents single sided No replacement maps Note: the maps that remain in this section are: <ul style="list-style-type: none"> Navarro County Map Parker County Map Rusk County Map Smith County Map Tarrant County Map Tyler County Map Upshur County Map
Section 8D, Sensitive Information/Maps <ul style="list-style-type: none"> Remove entire section 	Section 8D, Sensitive Information/Maps <ul style="list-style-type: none"> Print the title page single sided

Revision # 0012 – DOT/PHMSA Control #217**To: All Holders of the Chevron Pipe Line Company Texas State Appendix****Revision Date: July 2006****Section 9, Hurricane Plan**

- Remove entire section

Section 9, Hurricane Plan

- Print the title page single sided
- Print the Table of Contents double sided
- Print pages 1 through 34 double sided

Front of Book

Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following any previous update notices.

Per Barry Staskywicz, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.

UPDATE/REVISION NOTICE**Revision # 0013 – DOT/PHMSA Control #217****To: All Holders of the Chevron Pipe Line Company Texas State Appendix****Revision Date: September 2006****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- **Per Barry Staskywitz, notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.**
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Existing Pages	Replace with New Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new CD provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document 	Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document
Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Entire section 	Beaumont Terminal (Emergency Response Action Plan) <ul style="list-style-type: none"> • Entire section
Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 1A Table of Contents (1 double sided page) • Sections 2 and 3 Table of Contents (1 double sided page) 	Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 1A Table of Contents (1 double sided page) • Sections 2 and 3 Table of Contents (1 double sided page)
Section 1A, Information Summary <ul style="list-style-type: none"> • Entire section 	Section 1A, Information Summary <ul style="list-style-type: none"> • Entire section
Section 2, Notifications <ul style="list-style-type: none"> • Entire section 	Section 2, Notifications <ul style="list-style-type: none"> • Entire section
Section 9, Hurricane Plan <ul style="list-style-type: none"> • Pages 3/4 • Pages 9/10 • Pages 21/22 	Section 9, Hurricane Plan <ul style="list-style-type: none"> • Pages 3/4 • Pages 9/10 • Pages 21/22
Front of Book Once your update process is completed, print this Update/Revision Notice single sided and insert in your Texas State Appendix Front of Book following any previous update notices.	
Notify PTS (Willie Eldridge) via e-mail at willie.eldridge@ptseps.com, when you have completed updating your ERP.	
This process must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0014 DOT/PHMSA Control #217****To: All Holders of the Chevron Pipe Line Company Texas State Appendix****Revision Date: October 2006****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new CD provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document 	Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document, insert into the plastic binder pocket
Table of Contents Index Tab <ul style="list-style-type: none"> • Section 1A, 1 double sided page • Sections 2 and 3, 1 double sided page 	Table of Contents Index Tab <ul style="list-style-type: none"> • Section 1A, 1 double sided page • Sections 2 and 3, 1 double sided page
Section 1A, Information Summary <ul style="list-style-type: none"> • Table of Contents • Page 24 	Section 1A, Information Summary <ul style="list-style-type: none"> • Table of Contents • Pages 24/25 • Page 26 (11 X 17 map)
Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents • Pages 7 through 28 	Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents • Pages 7 through 27
Front of Book Once your update process is completed, insert this Update/Revision Notice in your State Appendix Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0015 DOT/PHMSA Control #217****To: All Holders of the Chevron Pipe Line Company Texas State Appendix****Revision Date: January 2007****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new CD provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document 	Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document
Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Pages 7/8 	Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Pages 7/8
Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 2 and 3, 1 double sided page 	Table of Contents Index Tab <ul style="list-style-type: none"> • Sections 2 and 3, 1 double sided page
Section 1A, Information Summary <ul style="list-style-type: none"> • Pages 4/5 • Pages 16/17 • Page 19 (11 X 17 map) 	Section 1A, Information Summary <ul style="list-style-type: none"> • Pages 4/5 • Pages 16/17 • Page 19 (11 X 17 map)
Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents • Pages 8/9 • Pages 12/13 • Pages 22 through 27 	Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents • Pages 8/9 • Pages 12/13 • Pages 22 through 32
Section 9, Hurricane Plan <ul style="list-style-type: none"> • Page 33 	Section 9, Hurricane Plan <ul style="list-style-type: none"> • Page 33
Front of Book Once your update process is completed, insert this Update/Revision Notice in your State Appendix Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0016 DOT/PHMSA Control #217****To: All Holders of the Chevron Pipe Line Company Texas State Appendix****Revision Date: June 2007****Important – please read before you begin this update process:**

- This process must be completed within 14 working days of receipt of this document.
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new CD provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document 	Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document
Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Entire section, retain the blue folder 	Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Entire section, insert into the blue folder and insert into the plastic binder pocket
Front of Book <ul style="list-style-type: none"> • Remove laminated title page (single sided) 	Front of Book <ul style="list-style-type: none"> • Laminated title page
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire section 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents
Section 1A, Information Summary <ul style="list-style-type: none"> • Table of contents 	Section 1A, Information Summary <ul style="list-style-type: none"> • Table of contents • New pages to add, pages 27 and 28
Section 1B, Beaumont Terminal <ul style="list-style-type: none"> • Entire section 	Section 1B, Beaumont Terminal <ul style="list-style-type: none"> • New contents
Section 2, Notifications <ul style="list-style-type: none"> • Entire section 	Section 2, Notifications <ul style="list-style-type: none"> • New contents
Section 3, Resources <ul style="list-style-type: none"> • Pages 1/2 	Section 3, Resources <ul style="list-style-type: none"> • Pages 1/2
Section 9, Hurricane Plan <ul style="list-style-type: none"> • Pages 9/10 • Page 33 	Section 9, Hurricane Plan <ul style="list-style-type: none"> • Pages 9/10 • Pages 33 to 36
Agency Cross Reference <ul style="list-style-type: none"> • Entire section 	Agency Cross Reference <ul style="list-style-type: none"> • New contents
Front of Book Once your update process is completed, insert this Update/Revision Notice in your State Appendix Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0017 DOT/PHMSA Control #217****To: All Holders of the Chevron Pipe Line Company Texas State Appendix****Revision Date: January 2008****Important – please read before you begin this update process:**

- This process must be completed within 14 working days of receipt of this document.
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new CD provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document 	Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document
Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Entire section, retain the blue folder 	Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Entire section, insert into the blue folder and insert into the plastic binder pocket
Front of Book <ul style="list-style-type: none"> • Remove laminated title page • New to add - Texas General Land Office High Island Pipeline System (HIPS) Station Approval 	Front of Book <ul style="list-style-type: none"> • Laminated title page • Texas General Land Office High Island Pipeline System (HIPS) Station Approval insert behind the DOT/PHMSA Approval Letter
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire section 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents
Section 1A, Information Summary <ul style="list-style-type: none"> • Page 27 	Section 1A, Information Summary <ul style="list-style-type: none"> • Page 27
Section 2, Notifications <ul style="list-style-type: none"> • Entire section 	Section 2, Notifications <ul style="list-style-type: none"> • New contents
Front of Book Once your update process is completed, insert this Update/Revision Notice in your State Appendix Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0018 DOT/PHMSA Control #217****To: All Holders of the Chevron Pipe Line Company Texas State Appendix****Revision Date: March 2008****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new CD provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document 	Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document
Section 2, Notifications <ul style="list-style-type: none"> • Pages 12/13 	Section 2, Notifications <ul style="list-style-type: none"> • Pages 12/13
Front of Book Once your update process is completed, insert this Update/Revision Notice in your State Appendix Front of Book following any previous update notices.	
This update must be completed within 14 working days of receipt of this document.	

UPDATE/REVISION NOTICE**Revision # 0019 DOT/PHMSA Control #217****To: All Holders of the Chevron Pipe Line Company Texas State Appendix****Revision Date: July 2008****Important – please read before you begin this update process:**

- **This process must be completed within 14 working days of receipt of this document.**
- This sheet contains instructions for updating your State Appendix Emergency Response Plan.
- Should you need assistance or have questions on how to process this update, please contact Planning & Training Solutions, Inc. at 714-283-5140 or via e-mail: willie.eldridge@ptseps.com.

Remove Pages	Replacement Pages
Texas State Appendix CD <ul style="list-style-type: none"> • Destroy or delete all previous dated CDs or electronic versions of this State Appendix 	New Texas State Appendix CD <ul style="list-style-type: none"> • Replace with new CD provided
Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document 	Front Pocket Information <ul style="list-style-type: none"> • Entire stapled document
Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • Entire section, retain the blue folder 	Beaumont Terminal ERAP (Emergency Response Action Plan) <ul style="list-style-type: none"> • New contents, insert into the blue folder and insert into the plastic binder pocket
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire section 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents
Section 1B, Beaumont Terminal <ul style="list-style-type: none"> • Table of Contents pages • Pages 1/2 	Section 1B, Beaumont Terminal <ul style="list-style-type: none"> • Table of Contents pages • Pages 1/2
Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents page • Pages 1 through 15 	Section 2, Notifications <ul style="list-style-type: none"> • Table of Contents page • Pages 1 through 15
Section 9, Hurricane Plan <ul style="list-style-type: none"> • Entire section 	Section 9, Hurricane Plan <ul style="list-style-type: none"> • New contents
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Section 1A, Information Summary Index Tab <ul style="list-style-type: none"> • Pages 6 thru 9 	Section 1A, Information Summary Index Tab <ul style="list-style-type: none"> • Pages 6 thru 9
Section 1C, Van Pipeline System Index Tab <ul style="list-style-type: none"> • Pages 17/18 	Section 1C, Van Pipeline System Index Tab <ul style="list-style-type: none"> • Pages 17/18
Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Pages 3/4 • Pages 24 thru 31 	Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Pages 3/4 • Pages 24 thru 31
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UPDATE/REVISION NOTICE

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Revision Date: May 2010											
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Front of Book Index Tab <ul style="list-style-type: none"> • QI/Certification of Resources/Significant & Substantial Harm Statement • Revision Log (2 pages) 	Front of Book Index Tab <ul style="list-style-type: none"> • QI / Certification of Resources Statement • No replacement page 										
Table of Contents Index Tab <ul style="list-style-type: none"> • Entire contents 	Table of Contents Index Tab <ul style="list-style-type: none"> • New contents 										
Section 1A, Information Summary Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 1A, Information Summary Index Tab <ul style="list-style-type: none"> • New contents 										
Section 1B, Beaumont Terminal FRP Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 1B, Beaumont Terminal FRP Index Tab <ul style="list-style-type: none"> • New contents 										
Section 1C, Van Pipeline System Index Tab <ul style="list-style-type: none"> • Title page thru page 54 • Remove only the following 5 oversized maps: <ul style="list-style-type: none"> ✓ Figure 4.2-5A ✓ Figure 4.2-5B ✓ Figure 4.2-5C ✓ Figure 4.2-5D ✓ Figure 4.2-5E 	Section 1C, Van Pipeline System Index Tab <ul style="list-style-type: none"> • Title page thru page 51 • No replacement for the oversized maps removed The following 9 oversized maps will <u>remain</u> in the section: <table> <tr> <td>Figure 4.2-1A</td><td>Figure 4.2-1B</td></tr> <tr> <td>Figure 4.2-1C</td><td>Figure 4.2-1D</td></tr> <tr> <td>Figure 4.2-1E</td><td>Figure 4.2-1F</td></tr> <tr> <td>Figure 4.2-1G</td><td>Figure 4.2-1H</td></tr> <tr> <td>Figure 4.2-1I</td><td></td></tr> </table>	Figure 4.2-1A	Figure 4.2-1B	Figure 4.2-1C	Figure 4.2-1D	Figure 4.2-1E	Figure 4.2-1F	Figure 4.2-1G	Figure 4.2-1H	Figure 4.2-1I	
Figure 4.2-1A	Figure 4.2-1B										
Figure 4.2-1C	Figure 4.2-1D										
Figure 4.2-1E	Figure 4.2-1F										
Figure 4.2-1G	Figure 4.2-1H										
Figure 4.2-1I											
Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 2, Notifications Index Tab <ul style="list-style-type: none"> • New contents 										

TEXAS STATE APPENDIX**FRONT OF BOOK**

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Revision # 0021	
Revision Date: May 2010	
DOT/PHMSA Control #217	
Section 3, Resources Index Tab • Entire contents	Section 3, Resources Index Tab • New contents
Section 7, Spill Impact Index Tab • Entire contents	Section 7, Spill Impact Index Tab • New contents
Section 8, Sensitive Information Maps Index Tab • Remove index tab “Sensitive Information Maps A – H” and entire contents • Remove index tab “West Texas Sensitive Info/Maps” and entire contents	Section 8, Sensitive Information Maps Index Tab • No replacement pages • No replacement pages
Section 9, Hurricane Plan • Entire section	Section 9, Hurricane Plan • New contents which now includes index tabs for: - Beaumont, - Mont Belvieu - Sour Lake
Agency Cross Reference Index Tab • Entire Contents	Agency Cross Reference Index Tab • New Contents
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UPDATE/REVISION NOTICE

To: All Holders of the Chevron Pipe Line Company Texas State Appendix	
Revision # 22 / Revision Date: October 2011	
Team Review Date: May thru September 2011	
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Section 1C, Van Pipeline System Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 1C, Van Pipeline System Index Tab <ul style="list-style-type: none"> • New contents
Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 2, Notifications Index Tab <ul style="list-style-type: none"> • New contents
Section 3, Resources Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 3, Resources Index Tab <ul style="list-style-type: none"> • New contents
Section 9, Hurricane Plan Index Tab <ul style="list-style-type: none"> • No contents to remove 	Section 9, Hurricane Plan Index Tab <ul style="list-style-type: none"> • New contents, insert behind Section 9, Hurricane Plan Index Tab
Section 9, Hurricane Plan Beaumont Index Tab <ul style="list-style-type: none"> • Entire contents 	Section 9, Hurricane Plan Beaumont Index Tab <ul style="list-style-type: none"> • New contents

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Revision # 22 / Revision Date: October 2011

Team Review Date: May thru September 2011

DOT/PHMSA Control #217

Section 9, Hurricane Plan Mont Belvieu Index Tab <ul style="list-style-type: none"> Entire contents 	Section 9, Hurricane Plan Mont Belvieu Index Tab <ul style="list-style-type: none"> New contents
Section 9, Hurricane Plan Sour Lake Index Tab <ul style="list-style-type: none"> Entire contents 	Section 9, Hurricane Plan Sour Lake Index Tab <ul style="list-style-type: none"> New contents
Section 10, Sweeny Pipeline Emergency Procedures <ul style="list-style-type: none"> New to add in front of Agency Cross Reference 	Section 10, Sweeny Pipeline Emergency Procedures <ul style="list-style-type: none"> New Index Tab - Section 10, Sweeny Pipeline Emergency Procedures and contents to add in front of Agency Cross Reference
Agency Cross Reference Index Tab <ul style="list-style-type: none"> Entire Contents 	Agency Cross Reference Index Tab <ul style="list-style-type: none"> New Contents

Front of Book Index Tab

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Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Pages 3 thru 6 • Pages 8/9 	Section 2, Notifications Index Tab <ul style="list-style-type: none"> • Pages 3 thru 6 • Pages 8/9
Section 5, Dispersants <ul style="list-style-type: none"> • Entire contents 	Section 5, Dispersants <ul style="list-style-type: none"> • Entire contents
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TEXAS STATE APPENDIX**SECTION 1A
INFORMATION SUMMARY**

INFORMATION SUMMARY

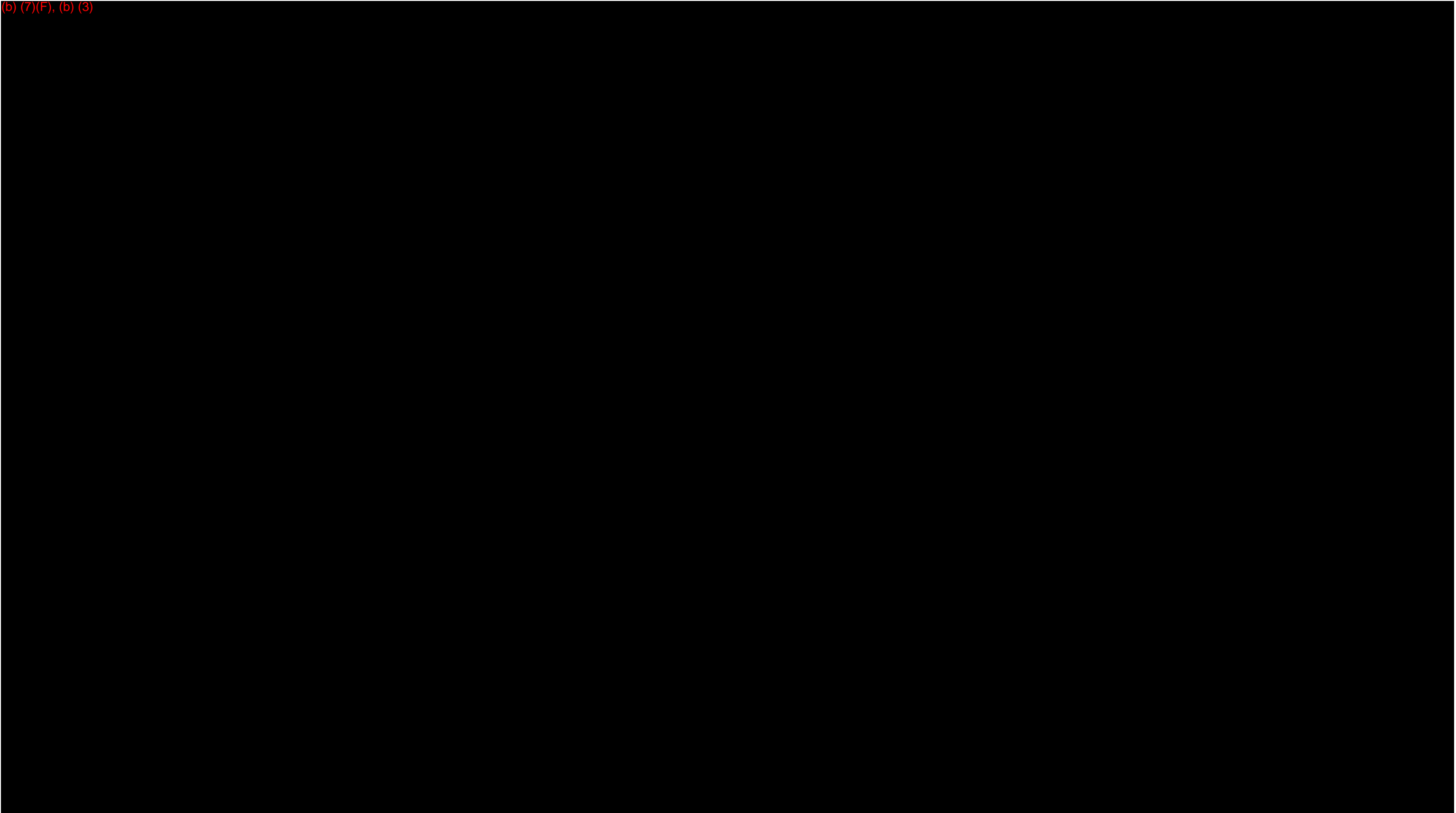
TEXAS STATE APPENDIX

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TEAM MAP



RESPONSE AREA 1 MAP

(b) (7)(F), (b) (3)



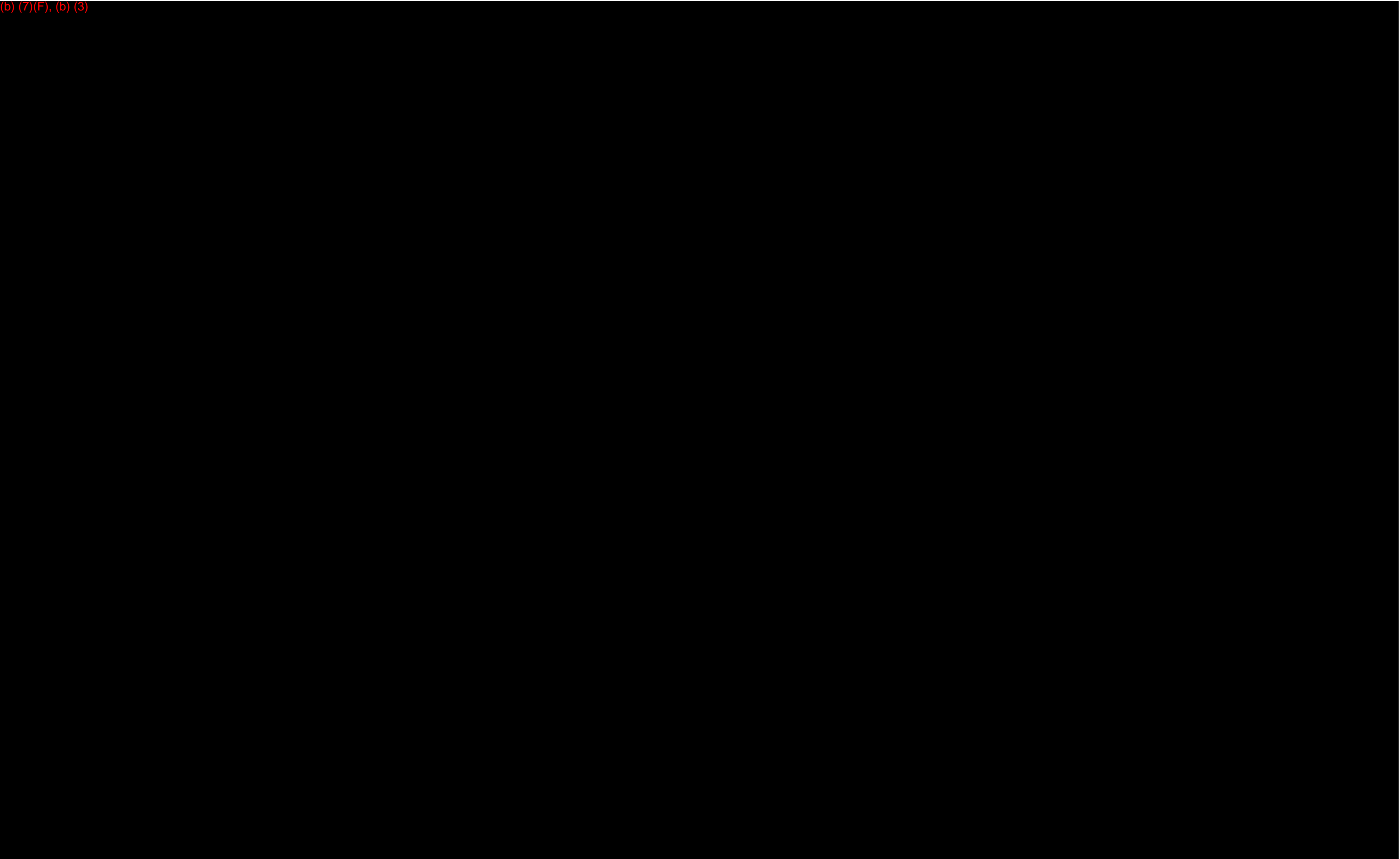
TEXAS STATE APPENDIX

DOT X Ref

EPA X Ref

USCG X Ref

(b) (7)(F), (b) (3)



(b) (7)(F), (b) (3)

T X Ref

A X Ref

CG X Ref

(b) (7)(F), (b) (3)



TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY**TIERED RESPONSE**

A tiered response organization is critical to manage emergency response because we cover large geographic areas. Immediate response in remote areas is managed by local personnel who may be supplemented with additional personnel depending on the magnitude of the spill. The response of additional personnel may take some time due to geography. It is impossible to name the specific individual who will be Incident Commander (IC) in advance. It will depend on the locations of the spill, the size of the spill, and whether it is the initial response or a later phase in the clean-up process.

Various federal and state agencies have recognized the need for owners/operators to use a tiered response to allow for the transfer of authority upward as the extent of a spill is assessed. Agencies also acknowledge that response efforts often involve 24-hour efforts, and authorities must be transferred in this “shift” work situation.

Tier 1 – Immediate Response Team

Tier 2 – Sustained Response Team

Tier 3 – Major incident response team (Chevron World Wide Organization)

Personnel who may be QIs/ICs must be HAZWOPER Level III or V trained and possess a current certification card. The Company maintains an on-going training program in accordance with the general procedures outlined in the Plan. The training status of all Company employed individuals who would be expected to participate in a response to any discharge to land or water within the area is provided to the Field Team Leaders in a report issued to them on a regular basis. Due to the size of the report, this information is not included in this response plan. These reports may be made available to agency representatives on request.

PHMSA requires this Plan to identify the name and/or title of the Qualified Individual, therefore the Primary Qualified Individual will usually be the Team Leader or Team members trained to Incident Command level. Alternate Qualified Individuals are all Team Members trained to the Incident Commander level.

Emergency telephone numbers are contained in the front pocket information.

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY**INFORMATION SUMMARY AND RESPONSE ZONE DESCRIPTION**

The Texas State Appendix is one of two State Appendices that provide emergency response planning for the Texas Response Zone. The Texas Response Zone includes pipeline systems and company assets in Texas and New Mexico. Refer to each State Appendix for specific emergency response information for that State. The Company Emergency Response Core Plan combined with various State Appendices make up the Company Emergency Response Plan.

For the purposes of effective response planning, the Texas Pipeline Systems described in this State Appendix have been subdivided into two Response Areas. Response Area 1 contains Oil Pipeline segments that meet the criteria for causing significant and substantial harm. The response areas are fully described in this State Appendix. All of the pipelines covered by this plan that are subject to 49 CFR Part 194 are located in Texas. Certain other pipelines not subject to 49 CFR Part 194 are listed in the respective response areas to facilitate emergency response to incidents involving these pipelines. A listing of the counties traversed by the pipelines subject to 49 CFR Part 194 may be found in the Core Plan.

The Company address is: 4800 Furnace Place, Bellaire, TX 77401.

As of September 1, 2002, TNRCC became TCEQ, Texas Commission on Environmental Quality. All references to TNRCC are to be considered as TCEQ.

East Texas - Response Area 1

This Response Area lies from Jefferson County in Southeast Texas north to Eastland County in North Central Texas.

West Texas - Response Area 2

This Response Area lies in north central Texas.

Note: Certain line segments that are not subject to Part 194 have been included in the Response Areas for emergency response purposes.

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY**PIPELINE DIAGRAM AND PLAN-PROFILE**

Detailed pipeline diagrams and plan-profile maps are available showing pipeline elevations, locations of valves and pump stations, and milepost designations for a specific pipeline system. This detailed information is available at the Field Team Offices.

DESCRIPTION OF RESPONSE AREAS**Response Area 1**

Response Area 1 contains crude oil pipelines. The Coastal Crude System (which is currently idled) contains a number of pipeline sections in Fort Bend and Harris counties. Multiple listings of identical pipeline sections indicate more than one pipeline runs between certain pump stations.

The Mesquite System (currently idled) originates at Lucas (Jefferson County) and terminates in Eastland (Eastland County) with a branch to Fort Worth (Tarrant County). The branch to Fort Worth has been sold. Multiple listings of identical pipeline sections indicate more than one pipeline runs between certain pump stations.

Note: The 12" Mesquite Products Line/Converted to LPG.

The 12" Mesquite Products Line has been reactivated and converted to LPG service from Lufkin Station (MP 94) to Sour Lake Station (MP 0).

This pipeline will transport Y grade LPG from Lufkin Station into Sour Lake Station.

(b) (3), (b) (7)(F)

Note: The WR-Cor 10" line is no longer part of this system.

As a result of the purchase of UNOCAL, Response Area 1 includes the Beaumont Marine Terminal (refer to Section 1B), a segment of Strategic Petroleum Reserve Pipeline (refer to Section 1B).

Note: On 12/31/05 Chevron sold its interest in the Mesa Crude System to Plains All American. On 01/01/06 Chevron relinquished all operatorship responsibilities to Plains All American.

TEXAS STATE APPENDIX

DOT X Ref

EPA X Ref

USCG X Ref

SECTION 1A
INFORMATION SUMMARY

LINE SEGMENTS

Response Area 1 Line Sections

LINE SECTIONS												
TYPE	PIPELINE	STATION	COUNTY	STATE	(b) (3), (b) (7)(F)	TO	STATION	COUNTY	STATE	(b) (3), (b) (7)(F)	DISTANCE	SUBSTANTIAL HARM
Crude	Chevron-10	Wortham Station	Freestone	TX		TO	Magnolia Station	Navarro	TX		20.65	
	Coastal-06	Moore's Field	Fort Bend	TX		TO	Big Creek Station	Fort Bend	TX		15.11	
	Coastal-06	Big Creek Station	Fort Bend	TX		TO	Alameda Station	Fort Bend	TX		18.30	
Crude	Coastal-08	Thompson Station	Fort Bend	TX		TO	Alameda Station	Fort Bend	TX		11.30	
(Idle)	Coastal-06	Thompson Station	Fort Bend	TX		TO	Alameda Station	Fort Bend	TX		11.30	
	Coastal-10	Alameda Station	Fort Bend	TX		TO	Queens Junction	Harris	TX		?	
Product	Mesquite-10	Lucas Station	Jefferson	TX		TO	Sour Lake Station	Hardin	TX		23.30	
(Idle)	Mesquite-12	Sour Lake Station	Hardin	TX		TO	Chester Station	Tyler	TX		52.00	
	Mesquite-12	Chester Station	Tyler	TX		TO	Lufkin Station	Angelina	TX		39.80	
X	Mesquite-10	Lufkin Station	Angelina	TX		TO	Salmon Station	Anderson	TX		43.22	
	Mesquite-08	Lufkin Station	Angelina	TX		TO	Big Sandy	Upshur	TX		83.00	
X	Mesquite-10	Salmon Station	Anderson	TX		TO	Wortham Station	Freestone	TX		58.11	
X	Mesquite-10	Wortham Station	Freestone	TX		TO	Dawson Station	Navarro	TX		20.02	
X	Mesquite-10	Dawson Station	Navarro	TX		TO	Grandview	Johnson	TX		38.90	
	Mesquite-10	Grandview	Johnson	TX		TO	Weatherford Station	Parker	TX		50.58	
	Mesquite-10	Weatherford Station	Parker	TX		TO	Ranger Station	Eastland	TX		44.00	
	Mesquite-08	Weatherford Station	Parker	TX		TO	Fort Worth Terminal	Tarrant	TX		44.79	
	Mesquite-10	Ranger Station	Eastland	TX		TO	Eastland Station	Eastland	TX		14.26	
Product	8"	Hopewell (TETCO)	Smith	TX		TO	Big Sandy	Upshur	TX		19.32	
X in LPG service												

Note:

- The WR-Cor 10" line is no longer part of this system.
- The Mesquite 10" products line is in LPG loop line service from MP 97 (13 miles east of Weatherford Station) to Lufkin Station (MP 0.0). The rest of the Mesquite 10" products line on the west side of MP 97 to Weatherford Station is idle and purged.
- On 12/31/05 Chevron sold its interest in the Mesa Crude System to Plains All American. On 01/01/06 Chevron relinquished all operatorship responsibilities to Plains All American.
- On 09/01/06 Chevron sold its El Paso and Juarez Products Pipeline Systems to Plains All American, Inc.

TEXAS STATE APPENDIX

DOT X Ref

EPA X Ref

USCG X Ref

SECTION 1A
INFORMATION SUMMARY

Response Area 1A Line Sections – Not Subject to Part 194

Response Area 1A Line Sections – Not Subject to Part 194										
Service	Size	From	County	State	MP	To	MP	County	State	Distance
	6"	CCPC Docks	Jefferson	TX	0	Premcor Refinery		Jefferson	TX	2.570
Lba	6"	CCPC Docks	Jefferson	TX	0	Premcor Refinery		Jefferson	TX	2.100
Ppmix	8"	CCPC Docks	Jefferson	TX	0	Premcor Refinery		Jefferson	TX	2.560
Ppmix	4"	Star Refy	Jefferson	TX	0	CCPC Plant		Jefferson	TX	1.790
Ppmix	8"	CCPC Plant	Jefferson	TX	0	Premcor Fannett		Jefferson	TX	20.793
Feedstock	8"	Premcor Fannett	Jefferson	TX		Dynegy Mt. Belvieu		Chambers	TX	39.470
Propylene	10"	Port Author	Jefferson	TX		Honey Bee connection		Chambers	TX	59.898
Propylene	8" & 10"	Honey Bee connection	Chambers	TX		Pines is 10" P/L		Harris	TX	23.930
Feedstock	10/12/10	ITC Plant	Harris	TX		HCC Plant		Harris	TX	5.850
Propylene	8"	Clemens	Brazoria	TX		BASF		Brazoria	TX	12.46
Propylene	8"	CPCC Cedar Bayou	Harris	TX		Deer Park Jct		Harris	TX	28.504
Propylene	8"/6"	Deer Park Jct	Harris	TX		Texas City		Galveston	TX	7.6
Propylene	6"	Texas City	Galveston			Freeport		Brazoria	TX	40.400
Propylene	8	Pt Arthur/Mt. Bel. Main Line	Jefferson	TX		Mobil Beaumont		Jefferson	TX	8.740
Propylene	4	TX City Leg Mp 9	Harris	TX		Bayport Plants		Harris	TX	1.982
Propylene	4	Mp 73.24	Harris	TX		Solvay Plant		Harris	TX	1.290
EP Mix	12"	CPCC Plant	Jefferson	TX		Dynegy Mt. Belvieu		Chambers	TX	57.500
RPG/Raffinate	6/8	CPCC Plant	Jefferson	TX		CPCC Cedar Bayou		Harris	TX	58.545
East FDSK	8/6	CPCC Plant	Jefferson	TX		CPCC Cedar Bayou		Harris	TX	67.740
Feedstock	10	Dynegy Mt. Belvieu	Chambers	TX		ITC Plant		Harris	TX	16.04
Feedstock	6"	ITC	Harris	TX		BG PRS		Harris	TX	1.32
Feedstock	10"/12"/10"	BG PRS	Harris			PPC		Harris		5.17
Feedstock	10/6/10/6	ITC Plant	Harris	TX		Clemens			TX	65.460
Hexene	6/8	Ccpc Cedar Bayou	Harris	TX		Exxon Mobil		Harris	TX	4.080
Ethylene	10	CCPC Plant	Jefferson	TX		Port Acres		Jefferson	TX	4.970
Ethylene	8	Port Acres	Jefferson	TX		Orange		Orange	TX	20.760
Ethylene	10	Port Acres	Jefferson	TX		Dynegy Mt. Belvieu		Chambers	TX	54.870
Ethylene	10	CCPC Cedar Bayou	Harris	TX		Deer Park		Harris	TX	16.110
Ethylene	6"	Dynegy Mt. Belvieu	Chambers	TX		Exxon Mobil		Chambers	TX	0.761
Ethylene	4	Orange Leg	Jefferson	TX		Huntsman Pt Neches		Jefferson	TX	0.118
Ethylene	8	Deer Park	Harris	TX		Dynegy Galena Park		Harris	TX	9.2
South Ethylene	12	PPC	Harris	TX		McBeth Jct.		Brazoria	TX	56.5
South Ethylene	10	McBeth Jct	Brazoria	TX		Clemens		Brazoria	TX	14.620
South Ethylene	10"	McBeth Jct.	Brazoria	TX		Sweeny Plant		Brazoria	TX	15.6

TEXAS STATE APPENDIX

DOT X Ref

EPA X Ref

USCG X Ref

SECTION 1A
INFORMATION SUMMARY

Response Area 1A Line Sections – Not Subject to Part 194										
Service	Size	From	County	State	MP	To	MP	County	State	Distance
South Ethylene	6	Mp 55.93 On 12"	Harris	TX		Nova Plant		Harris	TX	11.260
Ethylene	12	Dynegy Mt. Belvieu	Chambers	TX		CCPC Cedar Bayou		Harris	TX	1.694
EP Mix	12	Dynegy Mt. Belvieu	Chambers	TX		CCPC Cedar Bayou		Harris	TX	1.584
Ppmix	6	Dynegy Mt. Belvieu	Chambers	TX		CCPC Cedar Bayou		Harris	TX	1.629
2nd Liquid Line	12	Dynegy Mt. Belvieu	Chambers	TX		CCPC Cedar Bayou		Harris	TX	1.584
1st Liquid Line	8	Dynegy Mt. Belvieu	Chambers	TX		CCPC Cedar Bayou		Harris	TX	1.584
Raffinate	4	Dynegy Mt. Belvieu	Chambers	TX		CCPC Cedar Bayou		Harris	TX	1.584
Propane	6	Dynegy Mt. Belvieu	Chambers	TX		CCPC Cedar Bayou		Harris	TX	2.116
Feedstock	8	Oneok	Chambers	TX		Targa (Swing Line)		Chambers	TX	.36
Feedstock	8	Oneok	Chambers	TX		Targa (Cedar Bayou Connection)		Chambers	TX	.37
Feedstock	12	Oneok	Chambers	TX		CPL (EP)		Chambers	TX	0.1
Feedstock	6	Oneok	Chambers	TX		COP Sweeny		Chambers	TX	0.1
Ethylene	8	PPC	Harris	TX		Bigler		Harris	TX	1.95
LPG Mainline	10"	Livingston Booster sta.	Polk	TX		Targa Mont Belvieu		Chambers	TX	57.8
LPG Loop P/L	10"/14"/10"	Livingston Booster sta.	Polk	TX		Targa Mont Belvieu		Chambers	TX	57.8

TEXAS STATE APPENDIX

DOT X Ref

EPA X Ref

USCG X Ref

SECTION 1A
INFORMATION SUMMARY

Response Area 2A Line Sections – Not Subject to Part 194

Response Area 2A Line Sections – Not Subject to Part 194										
Type	Pipeline	Station	County	State	(b) (3), (b) (7)(F)	To	Station	County	State	(b) (3), (b) (7)(F)
LPG	#1-10"	Eastland	Eastland	TX			Abilene	Taylor	TX	
LPG	#2-10	Eastland	Eastland	TX			JCT	Callahan	TX	
LPG	10" Loop	JCT	Eastland	TX			Eastland Station	Eastland	TX	
LPG	14"	JCT	Callahan	TX			JCT	Callahan	TX	
LPG	10" Loop	JCT	Callahan	TX			Abilene	Taylor	TX	
LPG	#2-10"	JCT (Idle)	Callahan	TX			Coahoma	Howard	TX	
LPG	#1-10"	Abilene	Taylor	TX			JCT	Taylor	TX	
LPG	14"	JCT	Taylor	TX			JCT	Nolan	TX	
LPG	10" Loop	JCT	Nolan	TX			JCT	Mitchell	TX	
LPG	#1-10"	JCT	Nolan	TX			Roscoe Station	Nolan	TX	
LPG	#1-10"	JCT	Taylor	TX			Abilene Station	Taylor	TX	
LPG	#1-10"	Roscoe Sta.	Nolan	TX			JCT	Mitchell	TX	
LPG	#1-10"	JCT (Idle)	Mitchell	TX			JCT	Mitchell	TX	
LPG	14"	JCT	Mitchell	TX			JCT	Mitchell	TX	
LPG	10" Loop	JCT	Mitchell	TX			Coahoma	Howard	TX	
LPG	#1-10"	JCT	Mitchell	TX			Coahoma	Howard	TX	
LPG	#1-10"	Coahoma	Howard	TX			JCT	Midland	TX	
LPG	14"	JCT	Midland	TX			Midland Station	Midland	TX	
LPG	#2-10"	Coahoma	Howard	TX			JCT	Midland	TX	
LPG LAT	8"	Coahoma	Howard	TX			North Snyder	Scurry	TX	
LPG LAT	3"	Snyder	(b) (3), (b) (7)(F)	TX			Cosden	Howard	TX	
LPG LAT	4"	JCT N Lat	(b) (3), (b) (7)(F)	TX			GPM Fullerton	Andrews	TX	
LPG LAT	3"	JCT N Lat	(b) (3), (b) (7)(F)	TX			Mapco Bakke	Andrews	TX	
LPG LAT	4"	JCT S Lat	(b) (3), (b) (7)(F)	TX			Roberts Ranch	Ector	TX	
LPG LAT	4"/6"	Yates	Crockett	TX			Tippett	Crane	TX	
LPG LAT		Tippett	(b) (3), (b) (7)(F)	TX			JCT S Lat MP 31.439	Crane	TX	
LPG LAT	4"	JCT Tippe	(b) (3), (b) (7)(F)	TX			ARCO Blk. 31	Crane	TX	
LPG S LAT	6"	JCT S Lat	(b) (3), (b) (7)(F)	TX			Headlee	Ector	TX	
LPG LAT	4"	JCT. S. La (Idle - nitro	(b) (3), (b) (7)(F)	TX			Bradford Ranch	Midland	TX	
LPG S LAT	6"	Midland	Midland	TX			JCT	Crane	TX	
LPG S LAT	8" Loop	Midland	Midland	TX			JCT	Crane	TX	
LPG S LAT	6"	JCT	Crane	TX			Warren Sandhills	Crane	TX	
LPG S LAT	4"	JCT	(b) (3), (b) (7)(F)	TX			Warren Waddell	Crane	TX	
LPG N LAT	4"	JCT	(b) (3), (b) (7)(F)	TX			Exxon Sandhills	Crane	TX	
LPG N LAT	8"	Midland	Midland	TX			JCT	Andrews	TX	
LPG N LAT	8" Loop	JCT	Andrews	TX			JCT	Andrews	TX	
LPG N LAT	6"	JCT	(b) (3), (b) (7)(F)	TX			Monument	Lea	NM	
LPG LAT	4"	JCT N Lat	(b) (3), (b) (7)(F)	NM			JCT	Lea	NM	

TEXAS STATE APPENDIX

DOT X Ref

EPA X Ref

USCG X Ref

SECTION 1A
INFORMATION SUMMARY

Response Area 2A Line Sections – Not Subject to Part 194									
Type	Pipeline	Station	County	State	(b) (3), (b) (7)(F)	To	Station	County	State
LPG LAT	2.5"	JCT	Lea	NM			Minerals Llano	Lea	NM
LPG N LAT	3"	Monument	Lea	NM			Warren Saunders	Lea	NM
LPG N LAT	6" Loop	Monument	Lea	NM			Warren Saunders	Lea	NM
LPG N LAT	4"	JCT MP 124.985 (Idle)	Lea	NM			Citgo Bluit	Lea	NM
LPG LAT	4"	JCT MP 18.557 (Idle)	Lea	NM			Warren Vada	Lea	NM
LPG W LAT	8"	JCT MP 20.411 on N LAT (Idle)	Andrews	TX			JCT 6" and 8"	Ector	TX
LPG W LAT	6"	JCT 6" and 8" (Idle)	Ector	TX			JCT 6" and 4"	Ward	TX
LPG W LAT	4"	JCT 6" and 4" (Idle)	Ward	TX			Exxon Pyote	Ward	TX
LPG LAT	4"	JCT W LAT	Ward	TX			American Proc. Estes	Ward	TX
LPG LAT	4"	JCT W LAT	Ward	TX			Warren Monahans	Ward	TX
LPG LAT	4"	JCT W LAT	Winkler	TX			American Proc. Walto	Winkler	TX
LPG LAT	2"	JCT W LAT	Ward	TX			Warren Worsham	Ward	TX
LPG LAT	4"	JCT W LAT	Ector	TX			Amoco N. Cowden	Ector	TX
LPG LAT	2"	JCT Main Li	Taylor	TX			McWood So. Taylor	Taylor	TX
LPG LAT	4"	JCT Main Li	Eastland	TX			Warren Breckenridge	Stephens	TX
LPG LAT	3"	JCT Main Li	Midland	TX			LG&E (Sale Ranch)	Martin	TX
LPG LAT	4"	JCT Main Li	Mitchell	TX			Liq. Energy Jamison	Coke	TX
LPG LAT	2.5"	JCT Main Li	Taylor	TX			Tuscola	Taylor	TX
LPG LAT	2.5"/3"	JCT Main Li	Taylor	TX			Pride Dyess	Taylor	TX
LPG LAT	2"	JCT Main Li	Eastland	TX			Mitchell N. Texas	Eastland	TX
LPG LAT	3.5"						El Paso Ranger	Eastland	TX
LPG LAT	2.5"	JCT Main Line	Eastland	TX			Enserch Brooks	Eastland	TX
LPG LAT	3"	JCT Main Line	Eastland	TX			Shackleford	Shackleford	TX
LPG LAT		JCT Shack. M	Shackleford	TX			Cstl. States Albany	Shackleford	TX
LPG LAT	2.5"	JCT Shack. M	Shackleford	TX			Atlanta Albany	Shackleford	TX
LPG LAT	3"	JCT Main Line	Eastland	TX			Enserch Pueblo	Eastland	TX
LPG LAT	2.5"	JCT Main Line	Taylor	TX			Tuscola	Taylor	TX
LPG LAT	3"	JCT Main Line	Nolan	TX			El Paso Westlake	Nolan	TX
LPG LAT	4"	JCT Main Line	Mitchell	TX			Jameson	Coke	TX
LPG LAT	2.5"	JCT Jameson	Coke	TX			Perkins	Coke	TX
LPG LAT	4"	JCT Main Line	Midland	TX			Adobe Sale	Martin	TX

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY

Response Area 2A Line Sections – Not Subject to Part 194 – Continued

Response Area 2A Line Sections – Not Subject to Part 194 – Continued					
Size	From	To	Length Miles	County	State
4"	Salt Creek	Texaco Fuller JCT	21.96	Kent/Scurry	TX
3.5"	Texaco Fuller JCT	Chev. N. Snyder JCT	0.10	Scurry	TX
	Chev. N. Snyder JCT (Idle)	Oryx Snyder			
	Oryx Snyder (Idle)				
6"	(Leased to West Texas Gas)	Vincent	8.09	Howard	TX
6" I	(Idle)	Texaco E. Vealmoor JCT	12.02	Howard/Glasscock	TX
6"	Texaco E. Vealmoor JCT (Idle)	Seminole Snyder Tie in	11.54	Howard/Glasscock	TX
8"	Seminole Snyder Tie in (Leased to Targa)	Lees	7.09	Howard/Glasscock	TX
6"	Seminole Snyder Tie in	Lees	7.09	Howard/Glasscock	TX
4"	Lees	Conoco Sterling JCT	14.55	Glasscock/Sterling	TX
4"	Conoco Sterling JCT	Conoco Sterling Plant	4.47	Sterling	TX
4"	Conoco Sterling JCT (Idle)	Seminole Perkins Tie in	12.77	Sterling	TX
4"	Seminole Perkins Tie in (Idle)	Lomak Sterling Tie in	2.25	Sterling	TX
4"	Lomak Sterling Tie in (Idle)	Union TX Perkins JCT	12.97	Sterling/Coke	TX
4"	Union TX Perkins JCT (Idle)	Oryx Jameson	5.80	Coke	TX
6"	Lees (Leased, but turned back to Conoco/Targ)	Conoco Garden City JCT	25.46	Glasscock/Sterling	TX
4"	Conoco Garden City JCT (Leased, but turned back to Conoco/Targ)	Conoco Garden City Plt.	0.78	Sterling	TX
4"	Conoco Garden City JCT (Leased, but turned back to Conoco/Targ)	Parker & Parsley Sterling	3.86	Sterling	TX
6"	Lees	Mobil Baden JCT	23.65	Glasscock/Midland/Martin	TX
4"	Mobil Baden JCT	Mobil Baden Plant	0.39	Martin	TX
6"	Mobil Baden JCT	Stanton Booster	0.54	Martin	TX
8"	Lees	Midkiff Station	33.24	Glasscock/Upton	TX
6"	Stanton	Phillips Sprayberry JCT	17.21	Martin	TX
6"	Phillips Sprayberry JCT (Idle)	Phillips Sprayberry Plant	2.17	Midland	
6"	Phillips Sprayberry JCT	Midkiff Station	14.30	Midland/Martin	TX
6"	Midkiff Station	Western Gas Midkiff	0.56	Upton/Reagan	TX
	(Idle)	Western Gas Midkiff	0.55	Upton/Reagan	TX
		Davis Stiles JCT	19.43	Reagan	TX
4"	Davis Stiles JCT	Davis Stiles Tie in	0.50	Reagan	TX
3.5"	Davis Stiles Tie in	Davis Stiles Plant	6.67	Reagan	TX
4"	Davis Stiles Tie in	Ferrell Gas Benedum	0.33	Not in service/Reagan	TX
6"	Davis Stiles JCT	Western Gas Benedum	1.48	Reagan	TX
6"	Davis Stiles JCT	EZ Connection	0.58	Reagan	TX
8"	Midkiff	Roberts Ranch JCT	31.72	Upton/Midland	TX
	Roberts Ranch JCT (Idle)	Roberts Ranch Plant			
	Roberts Ranch JCT (Idle)	Waddell			
	Waddell (Idle)	Odessa Rexene JCT	3.29	Midland/Ector	TX
6"	Odessa Rexene JCT (Idle)	Odessa Rexene Plant	2.19	Ector	TX
8"	Odessa Rexene JCT (Idle)	Amoco N. Cowden Inj.	11.29	Ector	TX
8"	Amoco N. Cowden Inj. (Idle)	ARCO Block 31 JCT	6.63	Ector	TX
4"	ARCO Block 31 JCT (Idle)	ARCO Block 31 Plant	9.71	Ector	TX
8"	ARCO Block 31 JCT	Lawson JCT	3.2	Ector	TX
8"	Lawson JCT (Enterprise lines)	Shell TXL JCT	6.3	Ector	TX
8"	Shell TXL JCT (Enterprise lines)	TXL	0.19	Ector	TX
8"	TXL (Enterprise lines)	TX LPG Andrews Tie in	17.01	Andrews	TX
	TX LPG Andrews Tie in (Enterprise lines)	TX LPG Andrews Plant			TX
	TX LPG Andrews Tie in (Enterprise lines)	Amoco S. Fullerton Tie in	15.08		TX
	Amoco S. Fullerton Tie in (Enterprise lines)	Hobbs	29.12		TX

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY

Response Area 2A Line Sections – Not Subject to Part 194 – Continued					
Size	From	To	Length Miles	County	State
	Amoco S. Fullerton Tie in (Enterprise lines)	Amoco S. Fullerton Plt.	0.28		TX
4"	Amoco S. Fullerton Plt. (Idle)	Nitrotec Fullerton Tie in	0.48		TX
4"	Nitrotec Fullerton Tie in (Idle)	JCT Hobbs to Stanton	6.95	Andrews/Gaines	TX
6"	Hobbs (Blue System)	Nitrotec Fullerton Tie in	32.96	Gaines	TX
6"	Nitrotec Fullerton Tie in	Nitrotec Shafter Lake	8.17	Andrews	TX
6"	Nitrotec Shafter Lake	WTP Bakke JCT	7.01	Andrews	TX
6"	WTP Bakke JCT	Bakke	0.38	Andrews	TX
6"	WTP Bakke JCT	Chaparral San Andres	4.10	Andrews	TX
4"	Chaparral San Andres (Idle)	Amoco N. Cowden	12.73	Andrews	TX
8"	Hobbs (Snyder Red)	Nitrotec Fullerton Tie in	32.58	Gaines	TX
8"	Nitrotec Fullerton Tie in	Nitrotec Fullerton Lake	8.17	Andrews	TX
8"	Nitrotec Fullerton Lake	Texaco Mabee Tie in	23.8	Andrews	TX
	Texaco Mabee Tie in (Belongs to Feagan)	Texaco Mabee Plant			
8"	Texaco Mabee Tie in	Stanton	21.61	Andrews/Martin	TX
6"	Hobbs (Idle)	Phillips JCT	4.88	Gaines	TX
6"	Phillips JCT	Tatum Connection	16.74	Gaines/Lea	TX/NM
4"	Ponderosa JCT (Idle)	Hobbs Minerals (Lateral)	14.17	Lea	NM
6"	Tatum JCT (MP 21.7)	Maljamar	27.47	Lea	NM
6"	Phillips Artesia JCT	Oxy USA ABO JCT	1.85	Eddy	NM
4"	Phillips Artesia	Lateral	1.19	Eddy	NM
2"	Oxy USA ABO (Idle)	Lateral	0.49	Eddy	NM
6"	Oxy USA ABO JCT	Amoco ABO	0.44	Eddy	NM
6"	Amoco ABO	Duke Energy Pecos Diamond JCT	0.75	Eddy	NM
3"	Duke Energy Pecos	Lateral	0.29	Eddy	NM
6"	Duke Energy Pecos Diamond JCT	7 Rivers	0.53	Eddy	NM
6"	7 Rivers	Oxy Burton JCT	2.97	Eddy	NM
6"	Oxy Burton JCT	Yates Penasco	3.82	Eddy	NM
6"	Yates Penasco	Marathon Indian Basin	20.10	Eddy	NM
4"	Hobbs	Versado Gas Eunice	31.70	Lea	NM
8"	Hobbs (Leased to Enterprise)	Eunice JCT	26.93	Lea	NM
4"	Eunice JCT (Idle)	Eunice Plant (Lateral)	0.3	Lea	NM
6"	Eunice JCT (Idle)	Eunice Plant	4.40	Lea	NM
6"	Eunice Plant	Versado Gas Eunice	0.25	Lea	NM
6"	Versado Gas Eunice (Idle)	Jal Inj. JCT	7.78	Lea	NM
4"	Jal Inj. (Idle)	Lateral	0.31	Lea	NM
	Jal Inj. JCT (Idle)	JCT	10.5	Lea	NM
	JCT (Idle)	Mobil Dollarhide Plant	0.12	Lea	NM
3"	Versado Gas Eunice	Antelope Ridge	19.13	Lea/Andrews	NM/TX

The 6 Ucar Lateral located in Port Neches, TX is currently idle. The line runs from a valve site located in OPERA Park (used as the connection to the 8 Orange Leg) to an empty meter site on Hogaboom Rd (Groves, TX). The valve site will be reconstructed to make the tie-in to the 8 line, and a new meter station will be installed at the site on Hogaboom Rd. This line will be reactivated by purging the line with water, hydrostatic testing, running a sizing plate through, cleaning, and then drying it before commissioning the line with ethylene.

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY**DOT/PHMSA JURISDICTIONAL WORST CASE DISCHARGE (WCD) VOLUME**

The DOT/PHMSA Jurisdictional WCD volume for this Response Zone is Beaumont Terminal (for details, refer to Section 1B).

(b) (7)(F), (b) (3)

EPA AND USCG JURISDICTIONAL WORST CASE DISCHARGE

(b) (7)(F), (b) (3)

BASIS OF SIGNIFICANT AND SUBSTANTIAL HARM

Certain pipelines are located over, under, or in the near vicinity of navigable waters or their adjoining shorelines. On this basis, a worst case discharge could potentially cause significant and substantial harm to the environment.

WORST CASE DISCHARGE (WCD) VOLUME CALCULATIONS**DOT/PHMSA Jurisdictional Breakout Tanks and Line Segments Calculations**

Refer to the Beaumont Terminal located in Section 1B of this State Appendix for WCD calculations.

Note: On 12/31/05 Chevron sold its interest in the Mesa Crude System to Plains All American. On 01/01/06 Chevron relinquished all operatorship responsibilities to Plains All American. This State Appendix WCD was previously based on the Mesa Crude System.

EPA/USCG Jurisdictional Calculations

Refer to the Beaumont Terminal Facility Response Plan, Section 1B of this State Appendix.

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY**KEYSTONE GAS STORAGE UNIT**

This Section of the ERP covers the Keystone Gas Storage Unit located in Winkler County, approximately 12 miles Northeast of Kermit, Texas on Highway 115. The Unit is operated by Chevron Pipe Line Company. The Keystone Gas Storage Unit has five gas storage wells (caverns). There are two main components to the overall facility, (compression/dehydration and header/metering) where natural gas will be dehydrated, compressed and metered prior to withdrawal or storage.

KEYSTONE GENERAL FACILITY INFORMATION

Keystone: There is no physical street address for the Keystone Gas Storage Unit. The Keystone Gas Storage Unit is a natural gas storage facility located in Winkler County, approximately 12 miles Northeast of Kermit, Texas on highway 115. The Keystone Gas Storage Unit has five gas storage wells (caverns). There are two main components (compression/dehydration and header/metering) where natural gas will be dehydrated, compressed and metered prior to withdrawal or storage. The Keystone Gas Storage Unit has three 12" natural gas lines that originate in the natural gas storage caverns and terminate at the wet/dry gas header. These lines represent a total of 4500' and all three receive and distribute natural gas. In addition, this facility has three 16" natural gas lines. All three lines can transfer natural gas from and into the facility. One line is approximately 3.5 miles long and ties into the 20" El Paso natural gas line. The second 16" line is approximately 2.5 miles long and ties into the 30" Northern Natural gas line. The third 16" line is approximately 4.8 miles long and ties into Trans Western.

Facility Phone Number:

General Office; 432-586-8804

24-hour Emergency Number 432-333-5878

Facility Fax Number:

432-586-9761

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY**KEYSTONE VOLUMES OF OIL POTENTIALLY DISCHARGED**

Note: The Keystone Gas Storage Unit is a natural gas facility and therefore the calculations for volumes of oil potentially discharged from this facility do not apply since oil is not stored at this facility.

Tanks

(b) (3), (b) (7)(F)

Site Drainage Information**Spill Pathways**

All drainage and runoff from the two storage tanks would be contained within the 1,285-barrel containment dike and would remain inside the dike until the product evaporated or was mechanically removed since there are no drains or separators.

Drainage Control Structures

The Keystone Gas Storage Unit storage tanks are surrounded by concrete dikes walls. There are no dike drains or separators. Any products released from the two 500 barrel tanks will remain in the containment dike until it is removed.

Site Security

(b) (3), (b) (7)(F)

Keystone Additional Information

Additional information on the Keystone Gas Storage Unit includes the following:

Summary of Tanks and Potential Spill Sources for Keystone Gas Storage Unit

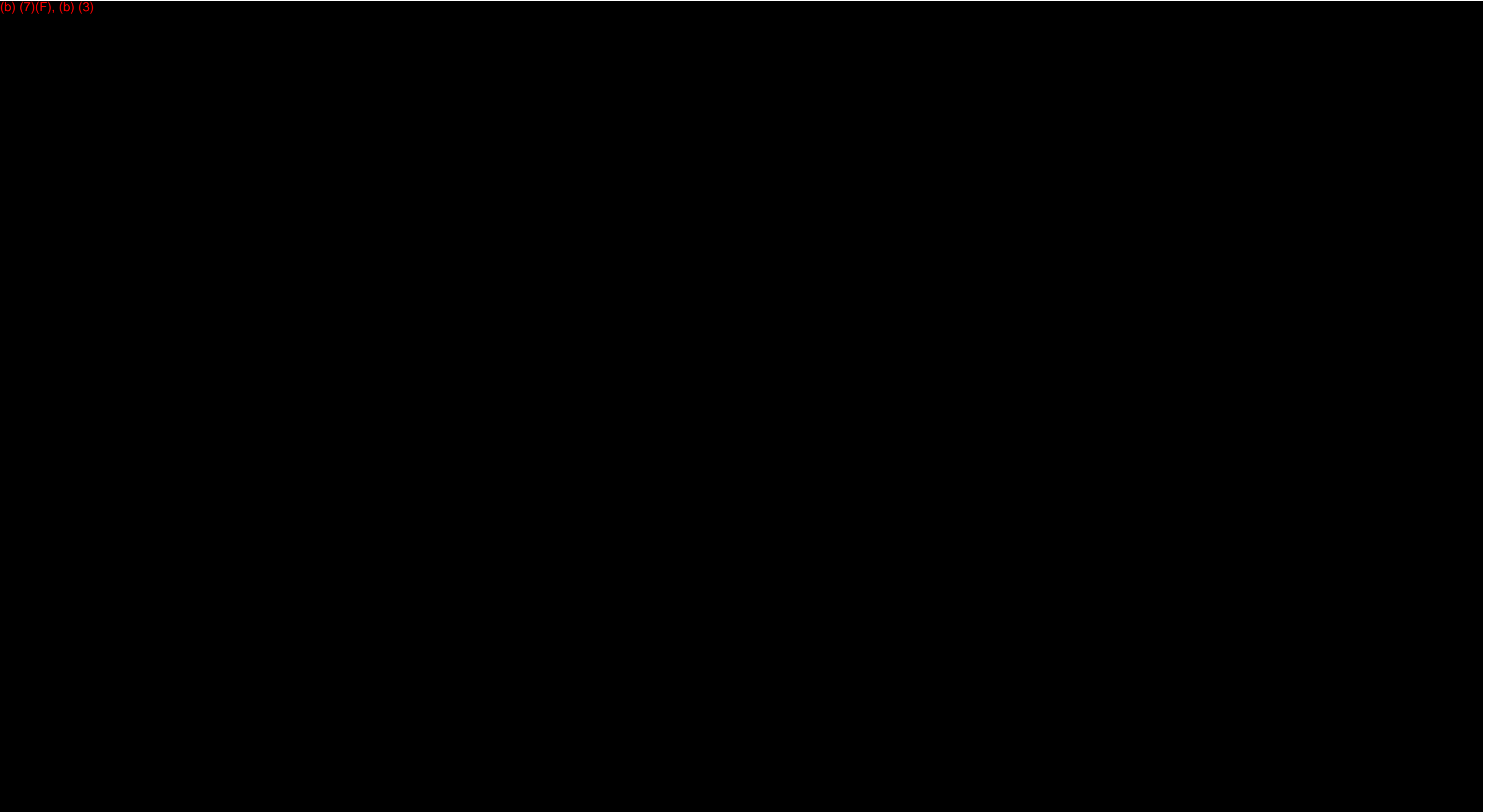
Tank	Description	Location	(b) (3), (b) (7)(F)	Contents	Construction	Year Built	(b) (3), (b) (7)(F)	Secondary Containment	Comments
1	Brine Storage	Keystone		Brine	Fiberglass	2002		Concrete Dike Walls	
2	Oil/Water Mix Storage	Keystone		Oil/Water Mix	Welded Steel	2002		Concrete Dike Walls	
	Crankcase Oil	Keystone		Crankcase Oil	Welded Steel	2002		Sheet Steel Pan	
	Crankcase Oil	Keystone		Crankcase Oil	Welded Steel	2002		Sheet Steel Pan	
	Compressor Cylinder Lubrication Oil	Keystone		Compressor Cylinder Lubrication Oil	Welded Steel	2002		Sheet Steel Pan	
	Compressor Cylinder Lubrication Oil	Keystone		Compressor Cylinder Lubrication Oil	Welded Steel	2002		Sheet Steel Pan	

DOT X Ref

EPA X Ref

USCG X Ref

KEYSTONE GAS STORAGE SITE PLAN



DOT X Ref

EPA X Ref

USCG X Ref

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY

(b) (7)(F), (b) (3)

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY

KEYSTONE GAS STORAGE REGULATORY COMPLIANCE AND CROSS-REFERENCE MATRICES

Regulatory Compliance and Cross-Reference Matrices

Citation	Subject	Plan Location
29CFR1910.38	Employee Emergency Plans and Fire Prevention Plans	
29CFR1910.38(a)(1)	Scope and applicability	<ul style="list-style-type: none"> • Texas State App, Section 1A Index Tab • Core Plan, Section 20, page 1
29CFR1910.38(a)(2)(i)	Emergency Procedures and emergency escape route assignments	<ul style="list-style-type: none"> • Texas State App, Section 1A Index Tab • Core Plan, Sections 2, 3, 5, 6 & 20 (page 15)
29CFR1910.38(a)(2)(ii)	Procedures to be followed by employees who remain to operate before they evacuate.	<ul style="list-style-type: none"> • Core Plan, Section 20, pages 15, 16, 17 & 18
29CFR1910.38(a)(2)(iii)	Procedures to account for all employees after evacuation	<ul style="list-style-type: none"> • Core Plan, Section 20, page 18
29CFR1910.38(a)(2)(iv)	Rescue and Medical duties	<ul style="list-style-type: none"> • Core Plan, Section 20, pages 17 & 18
29CFR1910.38(a)(2)(v)	Preferred means of reporting emergencies	<ul style="list-style-type: none"> • Texas State App, Section 1A Index Tab • Core Plan, Section 20, pages 5, 6 & 7
29CFR1910.38(a)(2)(vi)	Names who can be contacted for further explanation of plan duties	<ul style="list-style-type: none"> • Texas State App, Section 1A Index Tab
29CFR1910.38(a)(3)	Alarm System	<ul style="list-style-type: none"> • Texas State App, Section 1A Index Tab
29CFR1910.38(a)(4)	Evacuation	<ul style="list-style-type: none"> • Core Plan, Section 20, page 15 & Section 3, Evacuation Emergency Response Guide
29CFR1910.38(a)(5)	Training	<ul style="list-style-type: none"> • Core Plan, Section 12
29CFR1910.120(q)	Hazardous Waste Operations and Emergency Response	
29CFR1910.120(q)	Emergency Response to Hazardous Substance Releases.	<ul style="list-style-type: none"> • Core Plan, Sections 2, 5, 6 and 20
29CFR1910.120(q)(1)	Emergency Response Plan.	<ul style="list-style-type: none"> • Core Plan & Texas State Appendix
29CFR1910.120(q)(2)	Elements of an emergency response plan.	<ul style="list-style-type: none"> • Core Plan, Section 3, pages 2, 3 & 4 Section 20
29CFR1910.120(q)(2)(i)	Pre-emergency planning and coordination with outside parties.	<ul style="list-style-type: none"> • Core Plan, Sections 18 and 20
29CFR1910.120(q)(2)(ii)	Personnel roles, lines of authority, training and communication.	<ul style="list-style-type: none"> • Core Plan, Sections 2, 6 & 12

TEXAS STATE APPENDIX

SECTION 1A
INFORMATION SUMMARY

Citation	Subject	Plan Location
29CFR1910.120(q)(2)(iii)	Emergency recognition and prevention.	• Core Plan, Sections 3 & 20
29CFR1910.120(q)(2)(iv)	Safe distances and places of refuge.	• Core Plan, Sections 2, 7 & 20
29CFR1910.120(q)(2)(v)	Site security and control.	• Core Plan, Sections 2, 7 & 20
29CFR1910.120(q)(2)(vi)	Evacuation routes and procedures.	• Core Plan, Section 20
29CFR1910.120(q)(2)(vii)	Decontamination procedures.	• Core Plan, Sections 7 & 20
29CFR1910.120(q)(2)(viii)	Emergency medical treatment and response procedures.	• Core Plan, Sections 7 & 20
29CFR1910.120(q)(2)(ix)	Emergency alerting and response procedures.	• Core Plan, Sections 2, 7 & 20
29CFR1910.120(q)(2)(x)	Critique of response and follow-up.	• Core Plan, Sections 12 & 20
29CFR1910.120(q)(2)(xi)	PPE and emergency equipment.	• Core Plan, Sections 7 & 20
29CFR1910.120(q)(2)(xii)	Emergency response plan coordination and integration.	• Core Plan, Section 2
29CFR1910.120(q)(3)	Procedure for handling emergency response.	• Core Plan, Sections 2, 3, 5 & 20
29CFR1910.120(q)(3)(i)	The senior emergency response official responding to an emergency shall become the individual in charge of a site-specific Incident Command System (ICS).	• Core Plan, Sections 3 & 6
29CFR1910.120(q)(3)(ii)	The individual in charge of the ICS shall identify, to the extent possible, all hazardous substances or conditions present and shall address as appropriate site analysis, use of engineering controls, maximum exposure limits, hazardous substance handling procedures, and use of any new technologies.	• Core Plan, Section 6
29CFR1910.120(q)(3)(iii)	Implementation of appropriate emergency operations and use of PPE.	• Core Plan, Sections 3 & 6
29CFR1910.120(q)(3)(iv)	Employees engaged in emergency response and exposed to hazardous substances presenting an inhalation hazard shall wear positive pressure self-contained breathing apparatus while engaged in emergency response.	• Core Plan, Section 7
29CFR1910.120(q)(3)(v)	The individual in charge of the ICS shall limit the number of emergency response personnel at the emergency site, in those areas of potential or actual exposure to incident or site hazards, to those who are actively performing emergency operations.	• Core Plan, Sections 3, 7 & 6
29CFR1910.120(q)(3)(vi)	Backup personnel shall stand by with equipment ready to provide assistance or rescue.	• Core Plan, Sections 7 & 6
29CFR1910.120(q)(3)(vii)	The individual in charge of the ICS shall designate a safety official, who is knowledgeable in the operations being implemented at the emergency response site.	• Core Plan, Sections 3, 6 & 7
29CFR1910.120(q)(3)(viii)	When activities are judged by the safety official to be an IDLH condition and/or to involve an imminent danger condition, the safety official shall have authority to alter, suspend, or terminate those activities.	• Core Plan, Sections 3, 6 & 7

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SECTION 1A
INFORMATION SUMMARY

Citation	Subject	Plan Location
29CFR1910.120(q)(3)(ix)	After emergency operations have terminated, the individual in charge of the ICS shall implement appropriate decontamination procedures.	• Core Plan, Sections 6 & 7
29CFR1910.120(q)(3)(x)	When deemed necessary for meeting the tasks at hand, approved self-contained compressed air breathing apparatus may be used with approved cylinders for other approved self-contained compressed air breathing apparatus provided that such cylinders are of the same capacity and pressure rating.	• Core Plan, Section 7
29CFR1910.120(q)(4)	Skilled support personnel.	• Core Plan, Sections 3, 5, 6 & 19
29CFR1910.120(q)(5)	Specialist employees.	• Core Plan, Sections 3, 5, 6 & 19
29CFR1910.120(q)(6)	Training	• Core Plan, Section 12
29CFR1910.120(q)(7)	Trainers	• Core Plan, Section 12
29CFR1910.120(q)(8)	Refresher training.	• Core Plan, Section 12
29CFR1910.120(q)(9)	Medical surveillance and consultation.	• Core Plan, Section 7
29CFR1910.120(q)(10)	Chemical protective equipment.	• Core Plan, Section 7
29CFR1910.120(q)(11)	Post-emergency response operations.	• Core Plan, Sections 8 & 20

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INFORMATION SUMMARY

49 CFR 191.5	ERP Reference
Notification following discovery.	<ul style="list-style-type: none"> • Texas State App, Section 2 • Core Plan, Section 20, Notification Procedures, page 5
49 CFR 191.15	ERP Reference
Incident report.	<ul style="list-style-type: none"> • Core Plan, Section 20, Notification Procedures, page 5 and Forms and Checklist, page 68
49 CFR 192.615	ERP Reference
Receiving, identifying and classifying notices of events, which require immediate response by the operator.	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification Section 20 • State Appendix Plan, Section 2, Notifications
Prompt and effective response to a notice of each type of emergency, including the following:	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification Section 20 • State Appendix Plan, Section 2, Notifications
Gas detected inside or near a building.	<ul style="list-style-type: none"> • Core Plan, Section 3, Emergency Response Guides Section 20
Fire located near or directly involving a pipeline facility.	<ul style="list-style-type: none"> • Core Plan, Section 3, Emergency Response Guides Section 20
Explosion occurring near or directly involving a pipeline facility.	<ul style="list-style-type: none"> • Core Plan, Section 3, Emergency Response Guides Section 20
Natural disaster.	<ul style="list-style-type: none"> • Core Plan, Section 3, Emergency Response Guides Section 20
The availability of personnel, equipment, tools, and materials, as needed at the scene of an emergency.	<ul style="list-style-type: none"> • Core Plan, Section 5, Response Activities Section 20 • State Appendix Plan, Front Pocket Information
Actions directed toward protecting people first and then property.	<ul style="list-style-type: none"> • Core Plan, Section 3, Emergency Response Guides Section 7, JSSP Section 20
Notifying appropriate fire, police, and other public officials of gas pipeline emergencies and coordinating with them both planned responses and actual responses during an emergency.	<ul style="list-style-type: none"> • Core Plan, Section 2, Immediate Notification Section 20 • State Appendix Plan, Section 2, Notifications
49 CFR 192.616	ERP Reference
Public awareness.	<ul style="list-style-type: none"> • Core Plan, Section 20, page 79
49 CFR 192.617	ERP Reference
Investigation of failures.	<ul style="list-style-type: none"> • Core Plan, Section 20, page 67

COMMODITY CHANGE RPG IMPORT SYSTEM

Currently the CPC RPG Import system is used to transfer RPG between CPC Pt. Arthur Docks and 382 PH (pumphouse). This product can be delivered via barge or stored in tanks located within the CPC Pt. Arthur facilities. This product is then transferred via the 6" RPG pipeline or the East Feedstock pipeline to other CPC facilities and customers throughout the Houston Area. CPC is pursuing business opportunities beginning November of 2006 that will require Naptha to be transferred, in batching operations, utilizing this RPG Import System. A map on the following page displays the current RPG Import System.

(b) (7)(F), (b) (3)



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DOT X Ref

EPA X Ref

USCG X Ref

SECTION 1A
INFORMATION SUMMARY

SWEENEY PIPELINE INDEX

Sweeny #	B'ville #	Product	Flange Rating	Length	(b) (3), (b) (7)(F)	O.D.	W.T.	Material	Coating Type	Construction Date	(b) (3), (b) (7)(F)	To & From
5	90	Iso-Butane	600	73,800		6.625	0.25	5LX-42 smls	Koppers	1956		Dump Rd. to Clemens
6	88	Butane	600	74,000		6.625	0.25	5LX-42 smls	Koppers A-2	1957		Dump Rd. to Clemens
8	86	PP Mix	600	74,400		4.5	0.188	5IX-52 ERW	Coal Tar & Glass Fab.	1961		Dump Rd. to Clemens
9	85	Propylene	600	78,900		6.625	0.188	5L X-52 ERW	Coal Tar & Glass Fab.	1961		Dump Rd. to Clemens
12	83	NGL	600	79,300		10.75	.188, & .365	5LX-X52 ERW	Coal Tar & Glass Fab.	1961		Dump Rd. to Clemens
14	93	N-Butane	600	74,800		8.625	0.188	5LX-X52	Coal Tar	1962		Dump Rd. to Clemens
18	81-5	NGL	600	8,913		6.625	.188, & .281	5LX-X52 smls				Hilcorp to Copper Treater
20	77	EP Mix	600	75,400		10.75	.188, & .25	5LX-52 smls/ERW	Coal Tar, En. & Felt	1966		STF to Clemens
22	76	Ethylene	900	76,500		6.625	.219, & .25	5LX-X52 smls	Coal Tar, En. & Felt	1966		Dump Rd. to Clemens
35	219	Propane	600	81,500		10.75	.219, & .328	5L X-60 ERW, 5L X42 ERW	TGF-3 Polyguard	1991		Seagas to Clemens
36	220	DAC	600	152,150		6.625	.188, & .25	5L X-46 ERW, 5L X42 smls	TGF-3 Polyguard	1991		Seagas to Freeport
37	221	Off-Test Ethylene	900	81,500		8.625	0.277	5L X60 ERW	TGF-3 Polyguard	1990		Seagas to Clemens
44		NGL	600	1,336		8.865	0.322	API 5L Gr B				Seminole to Clemens
45		EP Mix	600	1,861		14	.250, .500	5LX X-65, Gr B				Seminole to Clemens

BEAUMONT TERMINAL

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

SECTION 1B BEAUMONT TERMINAL

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BEAUMONT TERMINAL TITLE PAGE**Facility Response Plan****For****Chevron Pipe Line Company
Beaumont Terminal****And****Strategic Petroleum Reserve (SPR) Pipeline****USCG - Beaumont Terminal
U.S. DOT/PHMSA Tracking No. 738
U.S. EPA Docket No. FRP-06-TX-00197**

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

DOT Approval



U.S. Department
of Transportation

**Pipeline and
Hazardous Materials Safety
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

May 10, 2005

Certified Mail – 7003 3110 0003 2603 3679 Return Receipt Requested

Mr. Terry G. Basham
Unocal Pipeline Company
P.O. Box 237
Nederland, TX 77627

Re: OPS Sequence Number 738 (Beaumont Terminal/Strategic Petroleum Reserve Pipeline)

Dear Mr. Basham,

Your Facility Response Plan (FRP) is approved in accordance with 49 CFR Part 194, *Response Plans for Onshore Transportation-Related Oil Pipelines*. The Pipeline and Hazardous Materials Safety Administration (PHMSA) commends you for developing a plan that reflects the characteristics of your company, the facility it operates, and the environment it strives to protect. In approving your plan, we have determined that your 23 July 2004 revised plan has adequately addressed the remaining findings in our letter dated 11 December 2003. On the basis of the information we reviewed, your response plan now satisfies the minimum response planning standards established by 49 CFR Part 194.

We accept as true all information in the plan but reserve the right to verify its validity and accuracy. We will advise you of any deficiencies discovered during our ongoing quality control activities and you will have the opportunity to correct such deficiencies.

Response planning is an ongoing process. The preparation, submission, review, and approval of a response plan are only the first steps in the process of developing an effective national response planning program. We will continue to help you refine and improve your plan. We trust that you will continue to improve your plan as you gain new knowledge and discover better practices, whether through responses to actual spills or through evaluations of drills and exercises.

Note that this approval will expire on May 10, 2010, which is five years from the date of this letter. Although we have approved the plan, we expect you to maintain your plan's compliance with 49 CFR 194, including making and submitting any required revisions to the plan as specified in 49 CFR 194.121(a) and (b).

Please refer to the "OPS Plan Sequence Number" listed above in all plan-related correspondence, including e-mails. E-mail is the preferred method for submitting inquiries, questions and comments to me at le.herrick@dot.gov. You can also telephone me at (202) 366-5523 or fax me at (202) 366-4566. Thank you for your cooperation.

Sincerely,

L. E. Herrick
Response Plans Officer

cc: EPA Region VI
MSO Port Arthur

Ext. # 9309

File # 2170

Act. # 8448

TEXAS STATE APPENDIX**SECTION 1B
BEAUMONT TERMINAL**

BEAUMONT TERMINAL USCG APPROVAL

Pending copy of USCG Approval

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

RESPONSE AREA INFORMATION SUMMARIES

CORE PLAN INFORMATION SUMMARY			
Operator Name	Chevron Pipe Line Company		
Operator Address	Main: 4800 Furnace Place Bellaire, TX 77401		
	Facility: Chevron Beaumont Terminal 3900 Highway 366 P. O. Box 237 Nederland, TX 77627		
The following are Response Areas within the Louisiana Response Zone which meet the criteria for determining significant or substantial harm:			
Tracking Number	Name and Description	County	State
Formally DOT/PHMSA 738	<u>Strategic Petroleum Reserve (SPR) Pipeline</u> SPR consists of 2.0 miles of pipeline between Chevron’s Beaumont Terminal and a tie-in to the Strategic Petroleum Reserve line.	Jefferson	Texas
Formally DOT/PHMSA 738	<u>Beaumont Terminal</u> The 560-acre facility consists principally of aboveground storage tanks with ship and barge docks along 5,600 feet of Neches River waterfront.	Jefferson	Texas

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BEAUMONT TERMINAL**RESPONSE AREA INFORMATION SUMMARY BEAUMONT TERMINAL****Response Area Description**

The Beaumont Terminal is located 8 miles southeast of Beaumont in Nederland, Texas, in the county of Jefferson. The 560-acre facility is at 3900 Highway 366 at State Highway 347 Intersection. The terminal has 7.0 million barrels of storage capacity distributed among 65 aboveground tanks of widely varying sizes and stores crude oil, gasoline and blendstocks, diesel and blendstocks aviation gasoline, fuel oils, base oils, propylene oligimers, naphtha. Mooring areas and transfer locations are provided along the facility's shoreline on the Neches River for marine receipts and shipments. Tank car/truck loading/unloading facilities are also operated within the terminal.

Determination of Significant and Substantial Harm

A discharge to the Neches River from the terminal could potentially affect environmentally sensitive areas.

Type of Oil and Volume of the Worst Case Discharge

(b) (3), (b) (7)(F)

Agency Cross Reference

Agency Cross Reference information for the Beaumont Terminal and SPR Pipeline is located at the end of this Texas State Appendix.

**RESPONSE AREA INFORMATION SUMMARY STRATEGIC PETROLEUM
RESERVE (SPR) PIPELINE [FORMALLY DOT/PHMSA TRACKING NUMBER 738]****Response Area Description**

The Strategic Petroleum Reserve (SPR) pipeline runs from Beaumont Terminal to a tie-in with Strategic Reserve Pipeline System from Big Hill, as well as a connection to ExxonMobil Pipeline and is used to transport crude oil. The line consists of 2.0 miles of 24-inch pipe traveling in a pipeline corridor between a highway and a railroad right-away.

Determination of Significant and Substantial Harm

The SPR Pipeline could impact sensitive environmental areas.

Type of Oil and Volume of the Worst Case Discharge

(b) (7)(F), (b) (3)

U.S. EPA RESPONSE PLAN COVER SHEET

General Information

Owner of Facility:	Union Oil Company of California 6001 Bollinger Canyon Road San Ramon, CA 94583-2324 925-842-2217
Operator of Facility:	Chevron Pipe Line Company 4800 Furnace Place Bellaire, TX 77401
Facility Name	Chevron Beaumont Terminal
Location (Street Address)	3900 Highway 366 at Highway 347
City/State/Zip:	Nederland, Texas 77627
County:	Jefferson
Phone Number:	409-722-3441 X 0
Latitude:	(b) (7)(F), (b) (3)
Longitude:	(b) (7)(F), (b) (3)
Dun & Bradstreet Number:	04-254-4858
Largest Aboveground Oil Storage Tank Capacity (Gallons):	(b) (3), (b) (7)(F)
Number of Aboveground Oil Storage Tanks:	66
Standard Industrial Classification (SIC) Code:	4226
Maximum Oil Storage Capacity (Gallons):	(b) (3), (b) (7)(F)
Worst Case Oil Discharge Amount (Gallons):	(b) (7)(F), (b) (3)
Facility Distance to Navigable Water:	0 - 1/4 mile

Applicability of Substantial Harm Criteria

Does the facility transfer oil over-water and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons? Yes

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and, within any storage area, does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation? No

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix C or a comparable formula) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments? Yes

TEXAS STATE APPENDIX**SECTION 1B
BEAUMONT TERMINAL**

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix C or a comparable formula) such that a discharge from the facility would shut down a public drinking water intake? Yes

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years? Yes

FACILITY INFORMATION

This Facility Response Plan (FRP) covers two Chevron operated facilities:

- Beaumont Terminal
- Strategic Petroleum Reserve (SPR) Pipeline

The Oil Pollution Act of 1990 regulates the Beaumont Terminal through U.S. Coast Guard (USCG) and U.S. Environmental Protection Agency (EPA) regulations published at Title 33 of the Code of Federal Regulations Part 154 (33 CFR 154) and 40 CFR 112, respectively.

The SPR Pipeline is regulated by these agencies and the U.S. Department of Transportation Pipelines and Hazardous Materials Safety Administration (PHMSA), Office of Pipeline Safety, regulations published as 49 CFR 194. In preparation of this plan, the National Contingency Plan and Southwest Louisiana - Southeast Texas Area Contingency Plan has been reviewed and this FRP is consistent with these plans.

Facility information forms are presented in this Section.

Beaumont Terminal

The Beaumont Terminal is in an unincorporated area of Nederland, Jefferson County, Texas, about 8 miles Southeast of Beaumont, near Highway 366, 1,500 feet East of Highway 347 Intersection, on the South bank of the Neches River. The Terminal covers 560 acres of dry, level land with a rectangular configuration.

The Terminal consists of aboveground storage tanks, a main dock and two additional docks. The facility stores crude oils and condensates, gasoline and blendstocks, diesel and blendstocks, jet fuels, fuel oils, cyclohexane, methyl tertiary-butyl ether (MTBE), methanol, naphtha, tertiary-butyl alcohol, solvents, toluene, and xylene. The Terminal has 7.5 million barrels (bbls) of storage capacity distributed among 66 aboveground tanks of widely varying sizes.

The Terminal has tank car, tank truck, barge and ship loading and unloading capabilities. The facility is bounded on the north by the Neches; on the east by ExxonMobil Oil tank farm; on the west by Sun Oil Terminal; and on the south by Texas Highway 366.

The valve on facility piping separating the marine transportation-related portion of the facility from the non-marine transportation-related portion of the facility is the first block valve inside the secondary containment.

The length of the terminal's waterfront is approximately 5,600 feet. The main wharf, upriver of the other docks, is about 1,200 feet long. The main dock and the Number 2 Crude Ship Dock (Strategic Petroleum Reserve or SPR Dock), and the Number 3 Barge Dock are downriver. Flanking the docks on the upriver end is Outfall 001; on the downriver end, Outfall 002. Vernor's Slough runs generally northeasterly along the Terminal's east perimeter and drains into the Neches River.

The local weather is usually moderate, with average temperature ranging between 40 and 85 F.

Strategic Petroleum Reserve (SPR) Pipeline

The Strategic Petroleum Reserve (SPR) Pipeline consists of approximately 2 miles of 24-inch pipe, which run from the crude manifold and SPR pumps, exits the Terminal property and parallels Highway 366/347, until the line connects with the Strategic Petroleum Reserve Pipeline System as well as connecting to ExxonMobil Pipeline Company.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

FACILITY INFORMATION FORM BEAUMONT TERMINAL

Facility Name	Chevron - Beaumont Terminal
Location (Street Address)	3900 Highway 366 at Highway 347
City/State/Zip:	Nederland, TX 77627
County:	Jefferson
Phone Number:	409-724-3220
Latitude:	(b) (7)(F), (b) (3)
Longitude:	
Wellhead Protection Area:	None
Owner:	Union Oil Company of California
Owner Location (Street Address):(if different from Facility Address)	6001 Bollinger Canyon Road
City/State/Zip:	San Ramon, CA 94583-2324
Phone Number:	925-842-2217
Operator (if not Owner):	Chevron Pipe Line Company
Operator Location (Street Address):(if different from Facility Address)	4800 Furnace Place
City/State/Zip:	Bellaire, TX 77401
Date of Oil Storage Start-up:	January 1923
Current Operation:	Petroleum Terminal
Date(s) and Type(s) of Substantial Expansion(s):	None

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FACILITY INFORMATION FORM SPR PIPELINE

Facility Name	Unocal Pipeline Company - SPR Pipeline
Location (Street Address)	3900 Highway 366
City/State/Zip:	Nederland, TX 77627
County:	Jefferson
Phone Number:	409-724-3220
Latitude:	(b) (7)(F), (b) (3)
Longitude:	
Wellhead Protection Area:	None
Owner:	Union Oil Company of California
Owner Location (Street Address): (if different from Facility Address)	6001 Bollinger Canyon Road
City/State/Zip:	San Ramon, CA 94583-2324
Phone Number:	925-842-2217
Operator (if not Owner):	Chevron Pipe Line Company
Operator Location (Street Address):(if different from Facility Address)	4800 Furnace Place
City/State/Zip:	Bellaire, TX 77401
Date of Oil Storage Start-up:	September 1963
Current Operation:	Petroleum Pipeline
Date(s) and Type(s) of Substantial Expansion(s):	None

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL**EMERGENCY RESPONSE NOTIFICATIONS**

Emergency response notifications will be made per Section 2 of this State Appendix.

EMERGENCY PHONE LIST BEAUMONT TERMINAL

The Beaumont Terminal Emergency Phone List can be located in the Emergency Response Action Plan (ERAP). The ERAP can be located inside the front pocket binder cover of this State Appendix.

AGENCY NOTIFICATIONS

Agency Notifications will be per Section 2 of this State Appendix.

EQUIPMENT

Emergency response equipment available to the Beaumont Terminal and SPR Pipeline, including location, operability status records are kept in the Maintenance Coordinator's Office.

The contractors listed in this Plan maintain emergency response equipment and are certified by the U.S. Coast Guard for oil spill response. Equipment lists are available at contractor and terminal offices. In general, the equipment includes boom and sorbent pads, boats, and skimmers.

EVACUATION PLANNING

Note: Additional Facility specific evacuation information is located in this Section and in the ERAP located in the front binder cover of this State Appendix.

Factors Affecting Evacuation Planning

Factors affecting evacuation planning include:

- Location of stored materials;
- Hazard imposed by spilled material;
- Spill flow direction;
- Prevailing wind direction and speed;
- Water currents, tides, or wave conditions (if applicable);
- Arrival route of emergency response personnel and response equipment;
- Evacuation routes;
- Alternative routes of evacuation;
- Transportation of injured personnel to nearest emergency medical facility;
- Location of alarm/notification systems;
- The need for a centralized check-in area for evacuation validation (roll call);
- Selection of a mitigation command center;
- Location of shelter at the facility as an alternative to evacuation.

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Other factors may include:

- Impact or threat of impact off-plant.
- Weather conditions, present and forecasted.
- Ability to isolate and contain, confine, or otherwise mitigate the release.
- Characteristics of oil or hazardous substance (reactivity, flashpoint, corrosivity, toxicity, routes of exposure, lower and upper explosive limits).
- Composition of oil or hazardous substance (hydrogen sulfide and benzene concentrations)
- Proximity of schools and other community centers.
- Traffic control issues.
- Response resources (personnel and equipment) available.

Terminal Evacuation

The primary evacuation route is through the Number 1 Gate to Highway 366. Alternate routes, identified in the map, require that a security guard unlock the exit gate. Notification for evacuation is provided by radio and speaker system by the Number 1 Gate Security Guard.

Community Evacuation

In the event community evacuation is required, Jefferson County Emergency Management would be notified. Phone numbers are provided in this Plan.

Integration of Response Efforts with Federal, State, and Local Efforts

The response effort will be coordinated with the USCG, U.S. EPA, U.S. DOT/PHMSA Office of Pipeline Safety, U.S. Fish and Wildlife Service, Texas GLO, TNRCC, Texas Parks and Wildlife Department, and Jefferson County Emergency Management, as appropriate, depending on the location of the discharge, the media impacted, sensitive environments affected or potentially affected, and evacuation, response resource, and community information requirements.

Response Strategies**Initial Response**

After Job Site Safety considerations, ideally, boom will be deployed simultaneously to protect sensitive environments and to contain the spill. Where resources are limited as compared to the size of the spill, and a choice between protecting sensitive environments and containing the spill must be made, protecting sensitive environments will be the first area to which boom is deployed. This is consistent with the U.S. Coast Guard Southwest Louisiana/Southeast Texas Area Contingency Plan (June 1993), the primary actions for protection of sensitive river environments in any spill where these environments are at risk are:

Facility will follow the Area Contingency Plan.

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The U.S. Coast Guard will be notified of the potential for impact of Neches River traffic on the spill trajectory and sensitive environments so that the River may be closed if necessary to prevent oil from reaching areas such as Gray's Cut, Gray's Bayou, and the Bessie Heights Canal.

Additional discussion of response actions for various size discharges is provided in this Plan.

Clean-up

Clean-up will also be conducted within Unified Command collaboration with the OSC and state agencies. Specific clean-up strategies are discussed in the ACP and this Plan.

Interaction with On-Scene Coordinator (OSC)

In most cases, the initial response will be handled by the IRT. Time of Federal OSC and State OSC arrival will vary depending on time of day, location and size of spill, traffic conditions, and weather.

A Job Site Safety Plan and ICS Form 201 (Incident Briefing Form) will be completed as soon as possible.

Company will work with the FOSC to establish a Unified Command Post to coordinate all federal, state, and local agency activities.

The incident will be managed per Section 6 of the Core Plan utilizing the Incident Command System.

All actions will be coordinated with the OSC, and any deviations from planned actions will be reviewed with the OSC prior to implementation or as soon as possible during or after implementation if the action is required to prevent further damage to human health, the environment, or property. The point of contact for all such actions will be the Chevron IC.

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HAZARD EVALUATION

Hazard Identification

Tanks and Surface Impoundments

A summary of tanks and surface impoundments is presented in this Section. The units are identified so as to correspond with the site plan diagram.

Transfer Operations

Product is received and shipped by pipeline, ship, barge, rail car, and tank truck, and stored in aboveground tanks. Product is also transferred between tanks. Typical shipment and receipt volumes are presented below.

Monthly Average Throughput (gal)		
Transportation Mode	Receipt	Shipment
Pipeline	36,045,825	143,844,362
Barge	35,283,315	34,355,437
Ship	117,187,214	11,797,391
Tank Truck	11,588,371	6,734,112
Tank Car	1,566,373	292,345
Totals	201,671,098	197,023,647

Average based on January through December 2010 throughputs.

The Beaumont Terminal can transfer to four or five vessels simultaneously. This would include:

- One ship (150,000 dead weight [dwt], 800,000 bbls), one ship (75,000 dwt, 400,000 bbls), one barge (10,000 bbls), and one barge (25,000 bbls), or
- One ship (150,000 dwt, 800,000 bbls), two ships (50,000 dwt, 100,000 bbls), one barge (10,000 bbls) and one barge (25,000 bbls), or
- One ship (75,000 dwt, 400,000 bbls), one barge (10,000 bbls), and two barges (each at 25,000 bbls), or
- Two ships (50,000 dwt, 100,000 bbls), one barge (10,000 bbls), and two barges (each 25,000 bbls).

TEXAS STATE APPENDIX

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BEAUMONT TERMINAL**Day-to-day Operations**

Day-to-day operations that may present a risk of discharging oil include piping repair or replacement, valve maintenance, and transfer of tank contents from one tank to another. Generally, these activities occur within a secondary containment area, either a tank dike or manifold containment. Prior to line or valve repair, the product in the line may be displaced with nitrogen or water; typical estimated volumes are 420 gallons (10 barrels) to 42,000 gallons (1,000 bbl). The volume of tank-to-tank transfers varies widely; average daily transfers for the year 2010 were 693,141 gallons (16,503 bbl).

Secondary Containment Volumes

Bulk storage tanks are provided with surrounding dikes designed to contain 100 percent of the tank capacity plus additional freeboard to allow for precipitation. Maximum dike heights are six feet. Dikes are formed by compacting layers of gumbo soil to a uniform cross section. In some cases, an asphalt coating has been sprayed over the dike to protect against erosion and to make the gumbo soil even more impervious. Several small tanks may be contained within one diked area. Such dikes are designed to contain at least the capacity of the largest tank. All dikes are drained by controlled release into underground sewers which discharge to wastewater treating facilities or permitted outfalls (in the case of tanks with closed water collection systems). Tank secondary containment volumes are presented in this Plan.

Normal Daily Throughput

Normal daily throughput (receipts plus shipments) for the year 2010 is 13,107,772 gallons. Because shipments, receipts, and transfers are routine operations and occur daily and fluctuate widely in terms of volume, changes in the volumes do not have an impact on the facilities oil discharge response capabilities.

Vulnerability Analyses**Beaumont Terminal**

Note: Site Sensitive mapping is located at the end of this Section beginning on Page 72.

This vulnerability analysis addresses the potential effects to human health, property, or the environment of an oil spill. The planning distance for persistent oils discharged to tidal influence navigable water is 15 miles from the facility down current during ebb tide and to the point of maximum tidal influence or 15 miles, whichever is less, during flood tide (40 CFR 112, Appendix C, Attachment C-III, § 4.1). This analysis considers the vulnerability of receptors within 15 miles up current and down current of the terminal. Sensitive environments are identified in this Section.

In general, the Neches River is an industrialized canal with critical marshlands and recreational boating areas. The critical areas, Bessie Heights Marsh, Gray's Canal, Bessie Heights Canal, and Block Bayou Marsh, are ecologically rich with waterfowl and wildlife and as fish and shrimp breeding grounds. Port Neches Park is used heavily for recreational boating, and the oil transfer

TEXAS STATE APPENDIX**SECTION 1B
BEAUMONT TERMINAL**

facilities and refineries that line the Neches may suffer economic loss due to a large spill on the River (U.S. Coast Guard, Southwest Louisiana/Southeast Texas Area Contingency Plan, June 1993).

The shoreline along the Neches River is characterized as:

- River bank and man-made shore, on the Terminal side of the river for 8.5 miles downstream.
- Dredge spoil banks, across the river from the Terminal for 8.5 miles downstream.
- Marsh, for the remaining shoreline downstream to Sabine Lake.

Water Intakes

(b) (7)(F), (b) (3)

**Schools**

One school, Port Neches-Groves High School, is located along the Neches River within the planning distance.

Medical Facilities

No medical facilities are located along the Neches River within the planning distance.

Residential Areas

No residential areas are located along the Neches River within the planning distance.

Businesses

The Beaumont Terminal is located the west end of the former Pure-Atlantic Highway (now Highway 366), so named for the companies located at each end (formerly Pure Oil Company and Atlantic-Richfield Company). Highway 366 parallels the Neches River and a number of petrochemical, petroleum refining, and petroleum terminalling operations lie between the Neches and Highway 366. A spill or spill response that stopped traffic in the Neches River would have a severe adverse economic impact on the industrial facilities that rely on marine transportation of raw materials, products, and commodities.

Wetlands and Other Sensitive Environments

The river's shoreline is mostly marsh, and small channels and bayous flow into the river. These include Gray's Cut, Gray's Bayou, Bessie Heights Canal, Block Bayou, Bird Island Bayou, Nig Bayou, and Molasses Bayou, all of which are paths into the marsh.

According to the coastal sensitivity index, the shoreline approximately 2½ miles downstream from the terminal is a low to moderate impact area. Beyond that point downstream, the shoreline becomes a high impact area. (TCEQ Spill Response Map Series, Coastal Region Support Data, August 1989; and Draft USCG Area Contingency Plan.)

Fish and Wildlife

The Bessie Heights Canal travels through the 1862-acre Lower Neches Wildlife Management Area.

The Sabine Lake area is an ecologically rich fish, crab, and shrimp spawning ground that is heavily used for commercial and recreational fishing, crabbing, and shrimping. A few small shellfish beds are located on the Louisiana side of Sabine Lake and along the east side of Sabine Pass Channel. Sabine National Wildlife Refuge is located on the east side of the Lake. Sydney Island, on the north end, was a bird sanctuary and rookery. Most of the birds are gone from the area, however, a few do nest on the island.

Lakes, Streams, and Rivers

The Neches River is a narrow, deep-water navigable waterway, which eventually empties into the Gulf of Mexico downstream of the Beaumont Terminal. The river flows in a predominately easterly direction. Prevailing winds are southerly by southwesterly at an average annual velocity of 10 miles per hour. The river's normal current speed is 0 to 1 knot; with severe winds its speed could reach 2 or 3 knots. According to the National Oceanic and Atmospheric Administration, the river has no periodic tide; the rise and fall of water in the area depends on meteorologic conditions.

The Kansas City Southern (KCS) Ditch, at the south end of the Terminal running along HIGHWAY 366, enters Vernor's Slough, which runs south to north across the Terminal to the Neches River.

Sabine Lake, which empties into the Gulf of Mexico, is about two miles downstream from the Terminal. On a day of average wind speed and wind direction, an oil spill would not reach the lake for more than 24 hours.

Endangered Flora and Fauna

Rare, threatened, and endangered species (especially reptiles) inhabit the marsh across the river from the Terminal.

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Port Neches Park is a major recreational area owned by the City of Port Neches. The park is located about 1½ mile downstream of the terminal. Fronting the Neches River, it has a public boat ramp and an area for other water-related activities.

Transportation

The river does not have a high level of traffic. There is a medium volume of tug and barge traffic, a low volume of deep-draft vessel traffic, and a low volume of pleasure boat traffic.

Utilities

Entergy takes cooling water from Sabine Lake.

Other Areas of Economic Importance

Commercial fisheries are located at Sabine Lake. Two commercial marinas are located 7 miles downstream of the Terminal. Marina operations include docking and fueling operations for private boat owners.

SPR Pipeline**Water Intakes**

(b) (7)(F), (b) (3)

Schools

The pipeline's path does not come near any schools.

Medical Facilities

No medical facilities are located within one mile of the pipeline.

Residential Areas and Businesses

The pipeline runs through commercial and industrial areas.

Wetlands and Other Sensitive Environments

The pipeline does not cross any drainage canals.

Fish and Wildlife, Endangered Flora and Fauna, and Recreational Areas

The pipeline runs through mixed commercial and industrial areas.

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Streams and Rivers

The pipeline does not cross any major bodies of water.

Transportation

The pipeline crosses the Kansas City Southern railroad, as well as a number of streets and roads.

Utilities and Other Areas of Economic Importance

Electrical lines exist within one mile of the pipeline.

Analysis of the Potential for an Oil Spill**Beaumont Terminal**

The highest risk for a spill is marine transfers, followed by truck and rail transfers, tank to tank transfers, tanks, and, with the lowest risks, pipelines. The primary objective is to prevent oil from entering the Neches River, Vernor's Slough, and the Kansas City Southern (KCS) Ditch. Should a spill enter Vernor's Slough or the KCS Ditch, the objective is to prevent the oil from entering the river. Should oil be discharged to the river, the inlets along the river, primarily Gray's Cut, Gray's Bayou, and Bessie Heights Canal receive protection priority. Other inlets downstream of these require protection in the event of a larger spill. Discharge detection systems described in this Plan discuss how risks associated with petroleum product handling are managed.

SPR Pipeline

Pipeline is one of the safest modes of transportation for petroleum products. The SPR Pipeline does not cross any sensitive areas.

Facility Reportable Oil Spill History

Reportable oil spills are listed in this Section for the life of the Terminal.

Chemical and Hazard Information

The products handled at the terminal include crude oil, gasoline and blendstocks, diesel and blendstocks, jet fuel and blendstocks, fuel oils, cyclohexane, toluene, xylene, methyl tertiary-butyl ether, methanol, tertiary-butyl alcohol, and solvents. The products transported through the PAPS Pipeline include gasoline and blendstocks, and diesel and blendstocks. All products are petroleum based and have characteristic petroleum/gasoline odors. They range from heavy residuals and crude oils to light products, such as gasoline. The primary hazards are from inhalation of hydrogen sulfide, benzene, and volatile organic compounds, and flammability due to low flashpoint. Material Safety Data Sheets (MSDSs) are available from the Safety Department.

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BEAUMONT TERMINAL ENVIRONMENTALLY SENSITIVE AREAS

(b) (7)(F), (b) (3)



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BEAUMONT TERMINAL

Hazard Identification Tanks Table 1

A – Above ground / B - Belowground

Substance stored is based on January through September 2010 data.

Quantity stored is based on January through September 2010.

A/B	Tank No.	Substance Stored	(b) (3), (b) (7)(F)	Tank Type	Year Installed	Failure/Cause (Cause and Date of any Tank Failure Resulting in Loss of Contents)	Leak & Corrosion Protection
A	86	Crude Oil		loating roof	1974 (1996 - geodesic dome installed)		No Corrosion Protection
A	103	Crude Oil		loating roof	1950		3/4" valves installed in the shell material between the original and new bottom which is 3"-4" above original bottom (no piping between the bottoms) No corrosion Protection
A	104	Crude Oil		loating roof	1950		Same As 103 Tk.
A	110	Crude Oil		loating roof	1980 (1994 - geodesic dome installed)	12/91- Top side pitting hole found during Insp.	Bottom Coated (Partial) Life of Corrosion Protection is 20 yrs.
A	112	Crude Oil		loating roof	1980 (1996 - geodesic dome installed)		No Corrosion Protection
A	115	Crude Oil		loating roof	1955		Bottom and Shell Coated Life of Corrosion Protection 20 yrs
A	116	Naphtha		loating roof	1962 Roof-1979		No Corrosion Protection
A	117	Crude Oil		loating roof	1972 (1996 - geodesic dome installed)		No Corrosion Protection
A	118	Naphtha		loating roof	1972		No Corrosion Protection
A	119	Naphtha		loating roof	1972		No Corrosion Protection
A	120	Crude Oil		loating roof	1972		No Corrosion Protection
A	121	Crude Oil		loating roof	1974		Shell Coated Interior Life of Corrosion Protection 20 yrs
A	122	Crude Oil		loating roof	1975		Shell Coated Interior Life of Corrosion Protection 20 yrs
A	123	Crude Oil		loating roof	1979		No Corrosion Protection

T X Ref

A X Ref

CG X Ref

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BEAUMONT TERMINAL

Hazard Identification – Tanks Table 1 – Continued

A/B	Tank No.	Substance Stored	(b) (3), (b) (7)(F)	Tank Type	Year Installed	Failure/Cause (Cause and Date of any Tank Failure Resulting in Loss of Contents)	Leak & Corrosion Protection
A	124	Crude Oil		Floating roof	1979	1993 - Leak on tank sidewall at mixer	No Corrosion Protection
A	125	Crude Oil		Floating roof	1979		No Corrosion Protection
A	126	Crude Oil		Floating roof	1979		No Corrosion Protection
A	127	Crude Oil		Floating roof	1981		No Corrosion Protection
A	128	Crude Oil		Floating roof	2002		Cathodic Protection
A	129	Crude Oil		Floating roof	2002		Cathodic Protection
A	130	Crude Oil		Floating roof	2002		Cathodic Protection
A	164	Recovered Oil		Floating roof	1963		Bottoms Shell Coated Life of Corrosion Protection 20 yrs
A	166	Naphtha		Floating roof	1963 (1981 - converted to floating roof)		No Corrosion Protection
A	167	Naphtha		Floating roof	1963 (1977 - converted to floating roof)		Bottom Coated Life of Corrosion Protection 20 yrs
A	168	Star 6		Fixed roof	1965		Bottom Coated Life of Corrosion Protection 20 yrs
A	169	Naphtha		Floating roof	1965 (1981 - converted to floating roof)		No Corrosion Protection
A	203	Crude Oil		Floating roof	1980		No Corrosion Protection
A	207	Naphtha		Floating roof	1972 (1992 - geodesic dome installed)		Shell Coated Life of Corrosion Protection 20 yrs
A	210	Naphtha		Floating roof	1969		Shell Coated Life of Corrosion Protection 20 yrs
A	213	Crude Oil		Floating roof	1976		Shell Coated Life of Corrosion Protection 20 yrs
A	214	Naphtha		Floating roof	1955	1985 - Holes found in Bottom	No Corrosion Protection
A	215	Naphtha		Floating roof	1967		Shell Coated Life of Corrosion Protection 20 yrs
A	216	Light Cycle Oil		Floating roof	1967 (1991 - converted to floating roof)	1991 - Holes in bottom top side corrosion	Bottom Partially Coated Life of Corrosion Protection 20 yrs

T X Ref

A X Ref

CG X Ref

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Hazard Identification – Tanks Table 1 – Continued

A/B	Tank No.	Substance Stored	(b) (3), (b) (7)(F)	Tank Type	Year Installed	Failure/Cause (Cause and Date of any Tank Failure Resulting in Loss of Contents)	Leak & Corrosion Protection
A	218	Empty		Floating roof	1937	1993 - Unwelded bottom weld seam 6" long	No Corrosion Protection
A	219	Diesel Blend Stock		Floating roof	1974		Shell Coated Life of Corrosion Protection 20 yrs
A	220	Propylene Tetramer		Floating roof	1961 (1975 - converted to floating roof)		Shell Coated Life of Corrosion Protection 20 yrs
A	221	Propylene Tetramer		Fixed roof	1961	1991 - Holes caused by bottom side pitting	No Corrosion Protection
A	222	Xylene		Fixed roof	1961		Same as TK 103 and 104
A	223	Crude Oil		Floating roof	1972		Shell Coated Life of Corrosion Protection 20 yrs
A	224	Crude Oil		Floating roof	1973		Shell Coated Life of corrosion Protection 20 yrs
A	225	Mixed Xylene		Fixed roof	1932		Bottom Coated Life of Corrosion Protection 20 yrs
A	227	Mixed Xylene		Fixed roof	1932		No Corrosion Protection
A	228	Cyclohexane		Floating roof	1937 (1974 - converted to floating roof)		Shell Coated
A	229	Xylene		Fixed roof	1963		Bottom Coated Life of Corrosion Protection 20 yrs
A	230	Empty		Floating roof	1963		No Corrosion Protection
A	233	Methanol		Floating roof	1948 (1974 - converted to floating roof)		No Corrosion Protection
A	234	Methanol		Floating roof	1949 (1974 - converted to floating roof)	1991 - Top side pitting – holes 1994 - Vapors detected beneath tank at base; double bottom installed	Bottom Coated
A	235	TBA		Floating roof	1948 (1977 - converted to floating roof)	1977 - Hole found in bottom	Bottom Coated Life of Corrosion Protection 20 yrs
A	236	Methanol		Floating roof	1950		No Corrosion Protection
A	238	Naphtha		Floating roof	1954 (1980 - converted to floating roof)	1978 - 12 soil side holes in bottom	Bottom Coated Life of Corrosion Protection 20 yrs
A	239	MTBE		Floating roof	1955 (geodisic dome installed 1999)		No Corrosion Protection

T X Ref

A X Ref

CG X Ref

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BEAUMONT TERMINAL

Hazard Identification – Tanks Table 1 – Continued

A/B	Tank No.	Substance Stored	(b) (3), (b) (7)(F)	Tank Type	Year Installed	Failure/Cause (Cause and Date of any Tank Failure Resulting in Loss of Contents)	Leak & Corrosion Protection
A	254	Star 4		Fixed roof	1962		No Corrosion Protection
A	255	Light Cycle Oil		Floating roof	1946 (1991 - converted to floating roof)		No Corrosion Protection
A	256	100R		Fixed roof	1963		No Corrosion Protection
A	257	600R		Fixed roof	1963		No Corrosion Protection
A	258	200R		Fixed roof	1963		No Corrosion Protection
A	259	Pentamer		Fixed roof	1963		No Corrosion Protection
A	263	Pipeline Relief		Floating roof	1963 (1974 - converted to floating roof)		Shell Coated Life of Corrosion Protection 20 yrs
A	269	Recovered Oil		Floating roof	1962 (1974 - converted to floating roof)		No Corrosion Protection
A	270	Naphtha		Floating roof	1967 (1978 - converted to floating roof)		Shell and Bottom Coated Life of Corrosion Protection 20 yrs
A	396	Crude Oil		Floating roof	1967		N/A
A	397	Crude Oil		Floating roof	1967		N/A
A	475	Star 4		Fixed roof	1956		N/A
A	476	Star 4		Fixed roof	1956		N/A
A	824	Recovered Oil		Floating roof	1977		Shell and Bottom Coated Life of Corrosion Protection 20 yrs
A	825	Crude Oil		Floating roof	1976		
A	8207	Empty		Fixed roof	1988		
A	8208	Empty		Fixed roof	1988		
A	8209	Empty		Fixed roof with vapor recovery system	1988		N/A

Hazard Identification – Tanks Table 1 – Continued

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Secondary Containment Volumes Table 2

Table 2

Secondary Containment Volumes													
Tank No.	Construction/Modification Date	Tank Diameter (ft)	Tank Area (ft ²)	Tank Height (ft)	Safe Fill Height (ft)	Safe Fill Capacity (gal)	Rainfall Allowance (gal)	Total (gal)	Secondary Containment				Adjacent Tank Dikes
									Area (ft)	Depth (ft)	Primary Volume (gal)	Adjacent Volume (gal)	
86	Jun-74	(b) (7)(F), (b) (3)	12,272	(b) (7)(F), (b) (3)	43 (43'-0")	3,945,116	394,186	(b) (7)(F), (b) (3)					
103	Jan-50		21,124		42.33 (42'-4")	6,685,089	857,132				+116+117+118+119		
104	Jan-50		21,124		43.06 (43'-1")	6,803,535	985,944						
110	Jan-80		28,353		43.5 (43'-6")	9,220,781	797,451				+112		
112	Jan-80		7,854		42.58 (42'-7")	2,500,212	669,163				+110		
115	Jan-55		17,871		28.5 (28'-6")	3,785,292	591,126				+114		
116	Jan-72		12,174		42.5 (42'-6")	3,686,111	479,379				+86+117+118+119		
117	Jan-72		12,174		42 (42'-0")	3,622,603	348,759				+86+116+118+119		
118	Jan-72		12,174		42.75 (42'-9")	3,690,864	425,697				+86+116+117+119		
119	Jan-72		15,175		43.17 (43'-2")	4,697,595	497,646				+86+116+117+118		
120	Jan-72		29,104		43.17 (43'-2")	9,393,226	952,599				+121+122+130		
121	Jan-74		29,104		43.5 (43'-6")	9,465,030	932,582				+120+122+130		
122	Oct-75		43,374		43.17 (43'-2")	13,968,743	1,010,587				+120+121+130		
123	Dec-78		41,548		43.17 (43'-2")	13,409,389	1,207,381				+124+125+126		
124	Dec-77		41,548		43.25 (43'-3")	13,434,238	1,152,401				+123+125+126		
125	Dec-77		41,548		44.25 (44'-3")	13,744,656	883,002				+123+124+126		
126	Dec-78		41,548		43.17 (43'-2")	13,409,389	1,268,527				+123+124+125		
127	Sep-81		15,394		42.5 (42'-6")	4,891,200	711,491						
128	Jul-01		37,325		50 (50'-0")	13,952,571	1,107,971				+129		
129	Jul-01		37,325		50 (50'-0")	13,952,571	981,894				+128		
130	Jul-01		37,325		49.75 (49'-9")	13,662,808	883,847				+120+121+122		
164	Aug-63		2,124		35 (35'-0")	555,707	418,976						
166	Aug-63		5,027		35.5 (35'-6")	1,334,073	696,188						
167	Aug-63		5,027		34.67 (34'-8")	1,302,882	696,188						
168	Sep-65	3,528	38 (38'-0")	1,091,823	227,033								
169	Jun-85	3,528	44.5 (44'-6")	1,172,954	227,033								
203	Mar-80	9,503	42.67 (42'-8")	3,031,651	319,356			+168+169					
207	Jun-72	17,871	42.5 (42'-6")	5,614,909	424,924			+164+269					
210	Oct-89	14,103	44.42 (44'-5")	4,683,380	671,725			+224+166+167					
213	Apr-76	26,159	43 (43'-0")	8,409,406	505,607			+223+270					
214	Dec-55	13,893	33.67 (33'-8")	3,497,177	379,536			+206+216					
215	Jan-62	13,893	34.75 (34'-9")	3,609,353	345,398			+219+adjacent area					
216	Aug-67	29,255	44.06 (44'-1")	9,641,119	1,129,228								
218	Jan-37	10,261	25.17 (25'-2")	1,930,843	496,937								
219	Jan-74	17,871	43.25 (43'-3")	5,713,995	370,655			+215+adjacent area					
220	Nov-61	7,854	36 (36'-0")	2,113,848	287,806			+221+222					
221	Nov-61	7,088	36 (36'-0")	1,907,748	200,875			+220+222					
222	Nov-61	4,243	38.58 (38'-7")	1,223,794	184,008			+220+221					
223	Jun-72	17,871	43.5 (43'-6")	5,747,024	836,735								
224	Aug-73	17,871	44.5 (44'-6")	5,870,140	696,189								

SECTION 1B

TEXAS STATE APPENDIX

BEAUMONT TERMINAL

Secondary Containment Volumes Table 2 – Continued

Table 2

Secondary Containment Volumes											(b) (3), (b) (7)(F)	Adjacent Tank Dikes
Tank No.	Construction/Modification Date	Tank Diameter (ft)	Tank Area (ft ²)	Tank Height (ft)	Safe Fill Height (ft)	Safe Fill Capacity (gal)	Rainfall Allowance (gal)	Total (gal)	Secondary Containment			
									Area	Depth	Primary Volume Insufficient	
225	Jan-32	(b) (7)(F), (b) (3)	3,634	(b) (7)(F), (b) (3)	33 (33'-0")	945,947	204,268	(b) (7)(F), (b) (3)				210
227	Jan-32	(b) (7)(F), (b) (3)	3,634	(b) (7)(F), (b) (3)	33 (33'-0")	945,947	238,782					
228	Jan-37	(b) (7)(F), (b) (3)	3,634	(b) (7)(F), (b) (3)	30.25 (30'-4")	867,118	167,780					
229	Aug-63	(b) (7)(F), (b) (3)	4,301	(b) (7)(F), (b) (3)	38.92 (38'-11")	1,251,433	671,725					
230	Feb-63	(b) (7)(F), (b) (3)	4,301	(b) (7)(F), (b) (3)	35 (35'-0")	1,125,389	671,725					
233	Dec-48		11,310		43.92 (43'-11")	3,713,606	632,176					234
234	Feb-49		11,310		42.25 (42'-3")	3,572,403	528,640					233+235
235	Aug-48		11,310		42.75 (42'-9")	3,614,680	501,128					234+233+824
236	Dec-50		11,690		44 (44'-0")	3,945,416	445,753					33+234+235+824
238	Mar-54		11,690		43.75 (43'-9")	3,823,569	578,673					
239	Jan-55		11,690		41.67 (41'-8")	3,641,786	562,547					
248	Jun-46		1,963		37.75 (37'-9")	554,151	321,748					
254	Apr-62		3,526		38.63 (38'-10")	1,023,501	540,204					
255	Dec-46		7,654		36 (36'-0")	2,113,646	1,129,228					
256	Jan-63		2,627		39 (39'-0")	824,401	392,589					
257	Aug-63		4,301		38.58 (38'-7")	1,240,500	540,204					
258	Aug-63		4,301		38.58 (38'-7")	1,240,500	540,204					
259	Jun-63		4,301		38.92 (38'-11")	1,251,433	540,204					
263	Jan-63		2,124		35.5 (35'-6")	563,646	515,785					
269	Apr-62		1,662		32.17 (32'-2")	399,704	137,463					
270	Jun-67		11,690		43.58 (43'-7")	3,808,712	555,477					213+223
395	Jul-67		2,627		34 (34'-0")	718,708	256,870					
396	May-62		8,495		37.08 (37'-1")	2,354,926	682,727					
397	Dec-62		8,495		37.08 (37'-1")	2,354,926	682,727					
475	Sep-56		2,627		38.63 (38'-10")	820,807	326,403					
476	Sep-56		2,627		38.63 (38'-10")	820,807	326,403					
824	Jan-77		10,297		24.08 (24'-1")	1,853,697	632,176					
825	Jan-75		6,625		44.17 (44'-2")	2,914,140	429,103					

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL**Hazard Identification Surface Impoundments**

Hazard Identification Surface Impoundments

SI No.	Substance Stored	Quantity Stored (Average Daily Volume)	Year Placed in Service	Maximum Capacity (gallons)	Area (sq. ft.)	Failure/Cause (Cause and Date of any SI Failure Resulting in Loss of Contents)
003	Stormwater	11,100,000 gallons	1976	50,000,000	1,611,720	October 1994 - Excessive rainfall required release of untreated stormwater to Neches River July 1990 - Flash fire caused by lightning strike

All values are estimated; Failure/Cause Data is for years terminal in operation.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

BEAUMONT TERMINAL FACILITY REPORTABLE OIL SPILL HISTORY

Date	Causes	Material	Amt. Re-leased (gal.)	Amt. to Nav. Water (gal.)	Effective-ness and Capacity of Secondary Contain-ment	Clean-up Actions Taken	Steps Taken to Reduce Possibility of Recurrence	Cap-acity (gal.)	Enfrement. Act-ions	Effective-ness of Monitor-ing Eqpmnt	Description of How Discharge was Detected
8-19-02	During US Coast Guard testing of a dock line, a pinhole leak occurred.	Hydrocarbon	5	2-3	NA	Deployed boom, response personnel and vacuum trucks	This was a required USCG test.	NA	?	NA	Discovered by operations personnel
2-24-02	Pinhole leak on barge transfer hose	Hydrocarbon	.125	.05	NA	The sheen dissipated the sheen was non-recoverable	Review/reivse procedure as necessary.	NA	NA	NA	Discovered by operations personnel.
11-28-01	During power outage and heavy rainfall sump #3 overflowed	Oily water	.125	sheen	NA	The sheen dissipated the sheen was non-recoverable	Review/reivse procedure as necessary.	NA	NA	NA	Discovered by operations personnel.
7-9-00	Cargo hose slipped off barge drain pan	Crude oil	.25	.125	NA	Sorbent booms were deployed and the sheen dissipated the sheen was non-recoverable	Review/reivse procedure as necessary.	NA	\$500	NA	Discovered by operations personnel
10-6-99	Blind flange not connected properly to dock hose.	Hydrocarbon	10	1	NA	Deployed boom, and vacuum trucks	Review/reivse procedure as necessary.	NA	NA	NA	Discovered by operations personnel
2-17-99	Power failure cause valve closure.	Hydrocarbon	1	.5	NA	Deployed boom, response personnel and vacuum trucks	The MOV that closed will be placed in local control.	NA	NA	NA	Discovered by operations personnel
11-30-98	Expansion joint leak	Hdrocarbon	.025	.025	NA	Outfall boomed and vacuum service removed product sheen	Place rubber membrane over expansion joint.	NA	NA	NA	Discovered by maintenance
9-25-98	Check valve failure at crude dock	Hydrocarbon	210	210	NA	Deployed boom, response personnel and vacuum trucks	Remove piping and review sump operations	NA	NA	NA	Discovered by shift foreman
1-22-98	During heavy rainfall wastewater plant experienced released	Hydrocarbon	.25	25	NA	Outfall boomed and vacuum service removed product sheen.	Reduce flow and divert flow of waste water to surge tank	NA	NA	NA	Discovered by maintenance foreman
1-22-98	During power outage and heavy rainfall sump overflowed	Hydrocarbon	1	1	NA	Vacuum service removed product sheen.	Monitor sumps more frequently during rain event.	NA	NA	NA	Operations discovered the spill

TX Ref

AX Ref

CG X Ref

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Beaumont Terminal Facility Reportable Oil Spill History – Continued

Date	Causes	Material	Amt. Re-leased (gal.)	Amt. to Nav. Water (gal.)	Effective-ness and Capacity of Secondary Contain-ment	Clean-up Actions Taken	Steps Taken to Reduce Possibility of Recurrence	Cap-acity (gal.)	Enfrement. Act-ions	Effective-ness of Monitor-ing Eqpmnt	Description of How Discharge was Detected
9-27-96	Sump overflow and into storm sewer lateral during rain event	Hydrocarbon	10	10	NA	Deployed boom across Vernor's Slough and used vacuum trucks.	Valve will be left open except during spill event.	NA	NA	NA	Operations discovered the spill
7-26-96	Sump overflow during heavy rainfall	Hydrocarbon	3	3	NA	Sorben booms were deployed and the recoverable oil was removed.	Review weekly testing program.	NA	NA	NA	The spill was discovered by operations
4-16-95	Contamination along the shore line under the grease plant	Hydrocarbon	.25	25	NA	Sorben booms were deployed and the recoverable oil was removed with sorbent pads	Shoreline	NA	NA	NA	The spill was discovered by the operator
1-27-95	Oily Trach-hoe	lubricating oil / diesel	.25	.25	NA	Sorbent booms were deployed and the sheen dissipated the sheen was non-recoverable	When ever praticable drains in maintenace areas will be block from discharging to lines leading to the outfall.	NA	NA	NA	The spill was discovered by the operator
10-17-94	The sump pump at crude dock number 2 back pressured.	Crude Oil	2	2	NA	Booms were deployed and the sheen dissipated the sheen was non-recoverable	Check valves were cleaned and tested and the high-high level alarm was repaired	650	NA	High-High level alarm Failed	The spill was discovered by the operator
8-3-94	An automatic ampler overflowed due to thermal pressure	Crude Oil	1/2	1/2	NA	A vacuum truck and sorbent booms were used to mitigate the sheen	To prevent recurrence, empty sample cans are not connected until ready for use.	5	NA	NA	The spill was discovered by the dock operator
6-25-94	The sump at number 3 crude dock over flowed	Crude Oil	20	20	NA	A vacuum truck was used to recover oil and the remaining sheen was removed using sorbent boom and pads	A faulty check valve and float switch have been repaired	5000	NA	NA	The spill was discovered by the dock operator

T X Ref

A X Ref

CG X Ref

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Beaumont Terminal Facility Reportable Oil Spill History – Continued

Date	Causes	Material	Amt. Re-leased (gal.)	Amt. to Nav. Water (gal.)	Effective-ness and Capacity of Secondary Contain-ment	Clean-up Actions Taken	Steps Taken to Reduce Possibility of Recurrence	Cap-acity (gal.)	Enfremnt. Act-ions	Effective-ness of Monitor-ing Eqpmnt	Description of How Discharge was Detected
6-12-94	Oil is seeping intermittently into Vernor's Slough	Hydrocarbon	1	1	NA	Containment and sorbent boom have been used to maximize the recovery.	Wells have been bored in the area of concern along the slough.	NA	NA	NA	The sheen was discovered by the shift foreman on his rounds
9-1-93	A gasket failure due to thermal pressure caused crude oil to spill in the river from a loading hose at the number 1 spot on the main docks.	Crude Oil	10	10	NA	Containment boom and sorbent materials were used to mitigate the spill	To prevent recurrence, hoses are removed during extended periods of non-use.	64	NA	NA	The spill was discovered by the dock operator
4-20-93	A relief valve failed causing crude oil to flow into the number 1 crude dock sump which was out of service and subsequently over flowed into the river.	Crude Oil	88,200	88,200	The sump was out of service	Containment boom, sorbent boom, vacuum trucks, skimmer vessels and low pressure washing were used to mitigate the spill	The system has been removed	5000	NA	NA	The spill was discovered by a contractor working in the area
4-8-93	The number 3 crude dock sump overflowed due to a rain event. The sump discharge line was out of service for repair.	Crude Oil	5	5	The sump was out of service	Containment boom, vacuum trucks, and sorbent materials were used to mitigate the spill	The sump discharge line has been repaired	5000	NA	The vacuum truck operator monitoring the sump was not effective	The vacuum truck operator discovered the spill after returning from his rounds
1-14-93	A bullplug on a line that was being pressure test broke of causing the spill	Diesel	5	5	NA	Containment boom and sorbent materials were used to mitigate the spill	The line was depressured and repaired	NA	NA	NA	The pressure testing crew discovered the spill

T X Ref

A X Ref

CG X Ref

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Beaumont Terminal Facility Reportable Oil Spill History – Continued

Date	Causes	Material	Amt. Re-leased (gal.)	Amt. to Nav. Water (gal.)	Effective-ness and Capacity of Secondary Contain-ment	Clean-up Actions Taken	Steps Taken to Reduce Possibility of Recurrence	Cap-acity (gal.)	Enfremnt. Act-ions	Effective-ness of Monitor-ing Eqpmt	Description of How Discharge was Detected
11-3-92	A relief valve on a loading arm at number 3 crude dock failed causing a flange to leak	Crude Oil	1	1	The high wind blew the oil into the river	The sheen on the river had dissipated as the boom was being deployed	The relief valve was removed and repaired and the loading arm was tested	NA	NA	NA	The dock operator discovered the spill
1-31-92	A cable on a loading sling caught on a fitting on the MTBE line at the number 4 spot on the main docks causing the release	MTBE	5	5	NA	The MTBE dissipated before booms could be deployed	The broken fitting was repaired and the dock operators were put through a review of slinging operations and equipment inspection procedures	NA	NA	NA	The dock operator discovered the spill
9-5-91	A vacuum truck operator was clearing a line and the truck lost suction spilling the material into the river	Regular Mineral Spirits	8	8	NA	Sorbent boom and pads were deployed to recover the sheen	Personnel have been instructed to deploy boom when doing similar operations and the vacuum truck contractor has reviewed the correct operating procedures with all drivers	10	NA	NA	The vacuum truck driver witness the spill
8-20-91	A crude oil barge operated by LeBoeuf Brother towing Company was over fill due to the tankerman not notifying the dockman in time to stop the transfer	Crude Oil	1260 To 2100	1260 To 2100	NA	Containment boom, sorbent boom, vacuum trucks and contract spill response personnel were used to mitigate the spill	Chevron personnel have been instructed to initiate shutdown procedures of the loading operation when shore tank gauges indicate the marine vessel has reached its capacity	NA	NA	NA	The tankerman discovered the spill.

T X Ref

A X Ref

C X Ref

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Beaumont Terminal Facility Reportable Oil Spill History – Continued

Date	Causes	Material	Amt. Re-leased (gal.)	Amt. to Nav. Water (gal.)	Effective-ness and Capacity of Secondary Contain-ment	Clean-up Actions Taken	Steps Taken to Reduce Possibility of Recurrence	Cap-acity (gal.)	Enfremnt. Act-ions	Effective-ness of Monitor-ing Eqpmnt	Description of How Discharge was Detected
7-16-91	External corrosion caused a naphtha cargo line to leak	Naphtha	60	60	NA	Containment boom, sorbent boom, vacuum trucks and contract spill response personnel were used to mitigate the spill	The dock piping inspections were increased and a full inspection of the piping under the docks was completed by the end of the year	NA	NA	NA	Maintenance workers reported the release
12-27-90	A heavy three day freeze caused a sump pump casting to split an the check valve to fail	Stormwater and Naphthol	<42	<42	NA	Containment boom, sorbent boom, vacuum trucks and contract spill response personnel were used to mitigate the spill	Equipment repairs were made and freeze protection procedures were reviewed	NA	NA	NA	The foreman on duty discovered the spill will making his rounds
10-24-90	A bleeder line at the old boiler house leaked into the drainage system and flowed out outfall 001	Diesel	100	100	NA	Containment boom, sorbent boom, vacuum trucks and contract spill response personnel were used to mitigate the spill	Operations personnel were reminded of the need to check carefully all piping associated with any new operation	NA	NA	NA	C.O. Burch noticed diesel leaking from the bleeder valve while he was in the area
10-04-90	Cracks in the lip surrounding the roof of the sump at number 2 crude dock and heavy rains caused the spill	Crude Oil	21	21	The Sump was cracked it has a capacity of approximately 5000 gallons	Containment boom, sorbent boom, vacuum trucks and contract spill response personnel were used to mitigate the spill	The sump was emptied and cleaned and repairs were made	5000	NA	NA	The dock operator discovered the spill
9-22-90	A relief valve failed causing crude oil to flow into the number 1 crude dock sump, which was out of service and subsequently over flowed into the river.	Crude Oil	360	360	The sump was out of service	Containment boom, sorbent boom, vacuum trucks and contract spill response personnel were used to mitigate the spill	Equipment and containment wall repairs were made and system operations were reviewed to ensure that excess line pressures are no developed	5000	NA	NA	The spill was discovered by operations personnel

DISCHARGE SCENARIOS - BEAUMONT TERMINAL**Average Most Probable (33 CFR 154) or Small Discharge (40 CFR 112)**

The average most probable discharge or small spill is 2,100 gallons or 50 barrels.

Medium Discharge (40 CFR 112)

The medium spill planning volume is 36,000 gallons or 857 barrels (the lesser of 10% of the worst case discharge or 36,000 gallons).

Maximum Most Probable Discharge (33 CFR 154)

The maximum most probable discharge is 50,400 gallons or 1,200 barrels (the lesser of 10% of the worst case discharge or 1,200 barrels).

Worst-Case Discharge (33 CFR 154; 40 CFR 112)

The worst-case discharge scenario is the release of the contents of Tank 122, used for crude oil storage, during a hurricane in which the tank was overfilled and the volume of precipitation caused the volume of the containment system to be exceeded. (b) (7)(F), (b) (3)

The material, due to flooding, travels 350 feet east overland, crossing a plant road and reaches a ditch, which leads to Outfall 003 (a permitted stormwater discharge point). Under normal operating conditions, this outfall is locked shut, and opened for a maximum 4-hour period by an authorized operator after confirming that the stormwater is free of oil. In this worst-case discharge scenario, the outfall would be opened and the hurricane conditions would preclude personnel from going outside to close the outfall. The oil would proceed from the ditch through Outfall 003, into the Kansas City Southern ditch, thence to Vernor's Slough, and into the Neches River.

(b) (7)(F), (b) (3). The worksheet used to calculate this volume is presented in this Section, and is adapted from 40 CFR 112, Appendix D, Part A.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL**PIPELINE (SPR)**

The worst case discharge scenario for pipelines is identified by USDOT (49 CFR 194) and is calculated as the largest volume of one the following:

1. The pipeline's maximum release time in hours, plus the maximum shutdown response time in hours (based on historic discharge data or in the absence of historic data, the operator's best estimate), multiplied by the maximum flow rate expressed in barrels per hour (based on the maximum daily capacity of the pipeline), plus the largest line drainage volume after shutdown of the line section(s) in the response zone expressed in barrels; or
2. The largest foreseeable discharge for the line section(s) within a response zone, expressed in barrels, based on the maximum historic discharge, if one exists, adjusted for any subsequent corrective or preventive action taken; or
3. If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within a single secondary containment system, adjusted for the capacity or size of the secondary containment system, expressed in barrels.

The calculation for 1 above may be expressed as:

$$WCD = Q(RT + SRT) + VS$$

where:

WCD = worst case discharge, bbl

Q = maximum flow rate, bbl per hour

RT = maximum release time, hours

SRT = maximum shutdown response time, hours

VS = largest line drainage volume after shutdown of the line sections, bbl

Calculations for option 1, using the formula expressed above, are presented in this Section each of the pipeline sections. Options 2 and 3 are not addressed, as there is no historic discharge data or breakout tankage applicable to these pipelines.

Procedures are established for abnormal operations, in the pipeline specific operations manual, for the SPR pipeline.

**BEAUMONT TERMINAL WORST CASE DISCHARGE PLANNING VOLUME
CALCULATION****Beaumont Terminal
Worst Case Discharge Planning Volume Calculation
For Onshore Storage Facilities;
Secondary-Containment-Multiple-Tank Facilities**

A.2 *Are all aboveground oil storage tanks or groups of aboveground oil storage tanks at the facility without adequate secondary containment? No.*

A.2.1 *If the answer is yes, the final worst case discharge planning volume equals the total aboveground oil storage capacity at the facility*

(1) *FINAL WORST CASE VOLUME: NA GAL*

(2) *Do not proceed further.*

A.2.2 *If the answer is no, calculate the total aboveground oil storage capacity of tanks without adequate secondary containment. If all aboveground oil storage tanks or groups of aboveground oil storage tanks at the facility have adequate secondary containment, ENTER "0" 0 GAL*

A.2.3 *Calculate the capacity of the largest single aboveground oil storage tank within an adequate secondary containment area or the combined capacity of a group of aboveground oil storage tanks permanently manifolded together, whichever is greater, PLUS THE VOLUME FROM QUESTION A.2.(b) [sic].*

(b) (7)(F), (b) (3)



Worst Case Discharge Calculation for Pipelines**SPR System: Beaumont Terminal to Strategic Petroleum Reserve/ExxonMobil Pipeline Connection****Description:**

The SPR System is comprised of 1.92 miles of 24-inch pipeline section which runs from Beaumont Terminal to connection with Strategic Petroleum Reserve / ExxonMobil Pipeline Connection.

Variables:

Q
RT
SRT

(b) (3), (b) (7)(F)

The pumps that operate the system shut down automatically on high pressure. This action is essentially immediate, so the time before detection of a release (RT) and the time to shut down a release once detected (SRT) combined is estimated at (b) (3), (b) (7)(F).

VS = 2 miles of drain down (line length) from Beaumont Terminal to connection of SPR/Mobil or (b) (3), (b) (7)(F) largest line drainage volume after shutdown of the line sections

(b) (7)(F), (b) (3)

DISCHARGE DETECTION SYSTEMS

Beaumont Terminal

Discharge Detection by Personnel

Visible oil leaks which result in a loss of oil from tank seams, gaskets, rivets, and bolts large enough to cause the accumulation of oil in diked areas noted by operations personnel during their rounds are promptly corrected. Aboveground pipelines, valves, flange joints, expansion joints, pipe supports, catch pans, etc., are routinely inspected for leaks or damage by gaugers, supervisors, and security guards during their normal course of business. This surveillance is simplified because most pipe alleys are located adjacent to and parallel to terminal roads and walkways. Maintenance performs repairs and painting as required. If extensive repairs are made to a line, the line will be hydrostatically tested.

All tanks used for the storage of oil are constructed of welded steel. All applicable American Petroleum Institute (API) and American Society of Mechanical Engineers (ASME) codes are followed for design and construction. Integrity testing of oil tanks includes visual inspection of each tank and peripheral equipment and nondestructive shell-thickness testing and hydrostatic testing.

Oil storage tanks are ultrasonically tested every eight years, or more frequently if experience indicates the need. The measurements are recorded and analyzed and repairs are recommended by the inspector. If repairs are extensive, the tank will be hydrostatically tested before it is returned to service. Each tank is visually inspected on an annual schedule and again just prior to painting. A written report is issued whenever conditions warrant. The inspector is responsible for keeping inspection records and for predicting when major repairs or replacement will be necessary.

All buried pipelines are coated and wrapped. Cathodic protection is provided at certain locations where experience has shown the need. The cathodic rectifiers are monitored and readings recorded monthly. Complete systems checks are performed annually.

Whenever excavations expose sections of buried oil pipelines, the exposed sections are examined by maintenance supervisors and/or metal inspectors. The condition of the pipe is determined and measurements obtained to project the remaining life and replacement date. The coating and wrapping is repaired or replaced before the line is reburied.

Aboveground pipelines that are not in use are examined and considered for other use based on projected economic life. If unfavorable, the line will be removed. If favorable, the terminal connection will be blocked or blinded until ready for use. Underground lines that are expected to be out-of-service for an extended period will be isolated by blocking or blinding.

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SECTION 1B
BEAUMONT TERMINAL**Automated Discharge Detection**

Most terminal oil tanks are provided with automatic liquid level readout from both a ground level and a centralized location. Tank gaugers and pumping stations are in direct radio or radio pager contact with each other. Rate gauging is employed to provide a double check on line-ups. Automatic level gauges are checked monthly to ensure accuracy.

SPR Pipeline**Discharge Detection by Personnel**

Observations for discharge detection are accomplished through:

- Highly visible signs posted at road crossings and other strategic locations instructing public to call a 24-hour center phone if irregularity is noted.
- Regular weekly air patrol.
- Cathodic protection of pipeline.
- Continuous monitoring of barrels input and barrels output.

Automated Discharge Detection

(b) (7)(F), (b) (3)



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL**PLAN IMPLEMENTATION****Immediate Actions**

The following steps will be taken when an incident occurs:

- Safely secure the site and safely respond to emergencies
- Safely remedy immediate causes
- Make appropriate notifications, depending on severity
- Implement the Incident Command System
- Complete a Job Site Safety Plan

A simplified table of immediate actions is provided below. The first action is always to notify Gate Number 1. No action should be conducted unless it can be done safely and after donning appropriate personal protective equipment.

Oil Spill Response - Immediate Actions

1. Warn personnel and stop the product flow	Act quickly to secure pumps, close valves, etc., and enforce safety and security measures
2. Shut off ignition sources	Motors, electrical circuits, open flames, etc.
3. Protect sensitive areas and initiate containment	Around the tank or pipeline and/or in the water with oil boom
4. Make notifications	Section 2 of the Texas State Appendix

Secure the Site and Respond to Emergencies

Personnel secure the site to isolate the area from personnel, and notify the Number 1 Gate Security Guard.

Warning Personnel and Notifying Response Team

The emergency response communication system is used by the Number 1 Gate Security Guard to notify personnel by whistle, radio and terminal phone messaging. An “all-clear” is sounded following the event.

Shutting Off Ignition Sources

- Hot work, such as welding and brazing, is terminated in the isolated area or the entire terminal, as appropriate, as soon as a spill situation is identified.
- Smoking is not allowed in the terminal except in designated areas.
- Electrical ignition sources in the isolation area are identified and deactivated if they pose a risk.
- Only intrinsically safe monitoring equipment is used during the reconnaissance and response.

Equipment Shutdown Sequence

The operator actions for shutdown are listed below.

Failure of Transfer Equipment

- Shutdown energy sources (pumps)
- Block transfer line(s) or hose(s)
- Activate the Initial Response Team (IRT) and OSRO(s), as appropriate
- Remove spilled oil from the containment area by vacuum truck
- If spill is to water, deploy containment boom at direction of IC

Tank Overfill and Tank Failure

- Shutdown energy sources
- Block transfer line to the tank
- Pump down tank or gravitate to other tank
- Activate the IRT and OSRO(s), as appropriate
- Remove spilled oil from the dike area by vacuum truck
- If spill is to water, deploy containment boom at direction of IC

Pipeline Rupture, Leak, and Equipment Failure

- Shutdown energy sources
- Isolate the line by blocking the appropriate valves
- Activate the IRT and OSRO(s), as appropriate
- In areas without containment, sandbag
- Remove spilled material by vacuum truck
- If spill is to water, deploy containment boom at direction of IC

The maximum time to perform detection and throughput shutdown in adverse weather for SPR Pipeline is essentially immediate, since an automated system activates shutdown upon detection of high or low pressure.

Explosion and/or Fire

The responder will survey the situation in order to decide whether trained personnel should attempt to put out the fire. This assessment will consider:

- Type of material involved
- System pressure
- Location of the leak
- Size of the leak/fire
- Is the fire impinging on a tank or any other equipment?

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- Is the fire in an incipient stage? An incipient stage fire is a fire that can be extinguished with a 10-pound dry chemical extinguisher and the leak can be controlled until its source can be isolated.
- Is the leak controllable? The leak is controllable if the responder is able to keep vapors dispersed and hot surfaces cooled with steam or water. This must be the responder's decision based on experience and the situation. If any doubt exists as to the safety of the action necessary to extinguish, then the responder should cool the equipment (from a distance), isolate the source, and wait for the ERT.

If the responder decides to contain the fire:

- Cool the surrounding equipment and keep the fire from spreading using nearest hose reel
- Remain at a safe distance
- Block-in any systems or pump that may be feeding the fire

If the responder decides to put out the fire and reduce fire spread:

- Ensure that water protection is available
- Extinguish, cool, control, and isolate the fire with a dry chemical extinguisher once water protection is available

Dry chemical fire extinguishers can be used to extinguish:

- Trash fires
- Scaffold board fires
- Spill fires
- Hydrocarbon fires that can be extinguished with a 10-pound chemical unit

Examples of fires that should not be extinguished with a fire extinguisher are:

- Fires in areas that are confined and do not allow proper escape due to limited water protection
- Fires where the source is under such pressure that too many vapors would be released before the source could be blocked
- Fires which are too large to extinguish with one 10-pound dry chemical extinguisher, for example, electrical or substation fires

Remedy Immediate Causes

The primary objective in every case is to prevent entry of oil into the Neches River, the KCS Ditch, and Vernor's Slough. In the event that oil does enter navigable waters, diversionary techniques, such as boom deployment, are used to prevent entry of the oil into the environmentally sensitive areas.

Pre-Entry Requirements

Monitoring

Prior to conducting any actions in the isolated area, and after considering Safety Conditions monitoring will be conducted for the appropriate parameters, including, but not limited to:

- Lower explosive limit, percent
- Oxygen, percent
- Total petroleum hydrocarbons
- Total benzene or aromatics

The area will also be assessed to determine any physical hazards, such as confined spaces, grounding, electrical hazards, and trip hazards.

Minimum personal protective equipment (PPE) used during monitoring and reconnaissance is Level B, supplied air and a suit for body protection. For all response activities, minimum PPE includes:

- Hard hat
- Eye protection (including side shields)
- Steel-toed boots

Health and Safety Plan

Based on the monitoring data, a Health And Safety Plan will be prepared by the Safety Officer or his designee. An example the Job Site Safety Plan is provided in the Core Plan, Section 7.

Mobilization of Emergency Response Contractors (ERC's)

Emergency Response Contractors (ERC's) may be called out by the Logistics or any person designated by the IC. Communications will be informed of all call-outs, estimated times of arrivals, actual arrival times, and ERC resources and capabilities, through the radio communications system. This information will be documented by the Recorder. Upon arrival, the ERCs will enter through Number 1 Gate, unless an alternate arrival point is specified by the IC to facilitate prompt response. For example, boat and boom deployment at Pt. Neches Park may be required to protect sensitive environments.

For entry through Number 1 Gate, Security personnel will check each ERC in, noting the time, number and type of vehicles, and number of personnel. Each ERC will be directed to a pre-established staging area and instructed to check in with Staging personnel, who will be identified by name. Staging personnel will be notified that the ERC is in the terminal and en-route to the staging area. Staging personnel will take a complete inventory of ERC equipment, materials, and personnel, communicate this information to the Recorder via Communications, and coordinate equipment deployment with the Operations Section Chief. Following demobilization, Staging personnel will take a second inventory of ERC equipment, materials, and personnel and also

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communicate this information to the Recorder. Using these procedures, the IC can determine upon request, the location of all ERCs and their response resources and capabilities, and inventory control measures can be implemented.

In cases where the ERC does not enter the terminal, Staging personnel will meet the ERC at the specified deployment location, and follow the same procedures.

Staging personnel will identify one or more staging areas based on the location of the spilled material and sensitive environments to be protected. These areas will be located so as to be upwind of the spilled material and to avoid bottlenecking of ERCs and equipment deployment.

Containment

Stopping the flow of spilled material, or containment, may involve:

- Plugging and patching
- Tightening seals and bonnets
- Shutting down transfers, pumps, or other equipment
- Closing or opening valves
- Stripping tanks
- Overpacking containers

These activities are conducted only after a thorough hazard and risk assessment have been conducted, a Job Site Safety Plan has been completed and only when the risk to the responder can be minimized through the use of engineering controls and/or personal protective equipment.

Stopping flow is generally a temporary alternative implemented to make the area safe until proper repairs, decontamination, and disposal can be accomplished.

Confinement

Confinement, those actions and techniques used to confine a release to a limited area, is initiated after or concurrently with containment, and may include:

- Diversion - controlled movement of the material to an area where it will cause less harm, such as a ditch, pit, sump, tank, or containment area
- Diking - construction of a barrier that prevents the passage of the material to an area where it will produce more harm
- Retention - containment of the material in an area where it can be treated or disposed, such as portable basins, dams, or berms; use of vapor suppression, sorbent application

Response Critique

All responses will be critiqued following conclusion of response activities, utilizing a Plus/Delta critique format. Lessons Learned will be recorded and any suggested changes to this ERP will be forwarded to the Company ER Coordinator.

Response Resources for Beaumont Terminal

Response Strategies for Discharge to Neches River

The following strategies are adapted from the U.S. Coast Guard *Southwest Louisiana/Southeast Texas Area Contingency Plan*. The primary actions to take protection of sensitive river environments in any spill where these environments are at risk are:

- Place containment booms and/or absorbent booms across Gray's Cut (about 100 feet), Gray's Canal (about 100 feet) Bessie Heights Canal (about 100 feet), and Block Bayou (about 200 feet), and attempt to keep oil out of the critical marshlands.
- Place catch booms in and around marsh entrances.

Small Discharge

- Place containment booms around the release area, double and triple booming as necessary to prevent entrained oil from going through the boom.
- Vacuum and sorb oil; wipe shoreline, equipment, vessels, docks, as appropriate.

Average Most Probable or Medium Discharge

- Per the ACP place containment booms and/or absorbent booms across Gray's Cut, Gray's Canal, Bessie Heights Canal, and Block Bayou, and attempt to keep oil out of the critical marshlands.
- Place catch booms in and around marsh entrances. Currents are often very strong (about 4 knots). As much as a 30 degree angle would be needed to lessen oil entrainment.
- If oil gets into the marsh, flush off grass and mud towards containment areas with low pressure water, then pick up with sorbents. Remove badly oiled marsh grass with USCG, GLO, and Texas Department of Parks and Wildlife permission only.
- Use vacuum trucks on barges on the Orange County side, if necessary, because of fewer channel restrictions and better water.
- Place boom along the periphery of the areas used at Port Neches Park for water-related recreation. Anchor the boom on the upstream and downstream ends of the park to prevent oil from coming ashore. Post signs warning park users to stay out of the river due to the presence of oil.
- Place interceptor booms between the advancing front of the oil spill and the water intakes at neighboring facilities.

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- Per the ACP, place use protection and diversion booming strategies to minimize impact on Sabine Lake.
- Place catch booms near Entergy pump station; attempt to keep oil away from intake canal entrance in Old River Cove on north side of Sabine Lake.
- Use skimmer barges, if available.
- Place booms at the entrance to the marina operations. Notify the marina owners of the potential for oil movement at their facilities. The warning should allow the owners to take actions to prevent contact with the oil spill in the event that some oil passes past the booms.

Evaluation of Response Resources for Discharge Planning Volumes

For each discharge scenario, the required response resources are listed followed by a description of the resources available to Company to meet these requirements. The response equipment described in this Plan, is capable of operating in a river environment where significant wave height is < 1 foot (a sea state of 1) (40 CFR 112, Appendix E, Table 1). The Sabine-Neches River is considered a higher volume port for spill planning purposes (40 CFR 112, Appendix C).

For all discharges, (b) (3), (b) (7)(F) recovered oil tank, will be used for storage of recovered oil during spill response. Should this tank be unavailable, 500 barrel frac tanks can be leased in sufficient quantity to contain recovered oil and water. Decanted water from recovery operations will be discharged to the oil-water separator. Water will receive further treatment in the waste water treatment plant. Remaining oil will be reclaimed. Transfer of oil from skimmers to Tank 269 will be made via vacuum trucks. Skimmers will dock at one of the barge docks for transfer of oil to the vacuum trucks. Booms will be placed around the vacuum trucks and in the water around the skimmer to contain any losses that occur during transfer operations. Off loading of skimmers will take approximately one hour per skimmer. Access to the barge docks is limited to essential personnel only.

Average Most Probable or Small Discharge

Response resources required for an average most probable discharge or small spill or 2,100 gallons or 50 barrels include:

- 1,000 feet containment boom
- Means of deploying containment boom within 1 hour of spill discovery
- Oil recovery device with an effective daily recovery capacity of at least 2,100 gallons (50 barrels)
- Means of deploying recovery device within 2 hours of spill discovery
- Oil storage capacity for recovered oily material of at least 4,200 gallons (100 barrels)

The response equipment listed in this Plan includes 1,900 feet of containment boom on reels at the shoreline and 400 feet of containment boom in storage. The shoreline boom can be deployed within 30 minutes, the stored boom within 1 hour. Three vacuum trucks with 150 gallon per minute recovery rates each, one with 5,460 gallons capacity and two with 2,520 gallons capacity,

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provide more than the required daily recovery rate and capacity. These trucks are located at the terminal and can be deployed within 30 minutes for shoreline or dock spills.

Maximum Most Probable Discharge

Response resources required for a medium discharge of 50,400 gallons or about 1,200 barrels include:

- Oil recovery devices capable of arriving on-scene within 6 hours
- Oil recovery devices with an effective daily recovery capacity of at least 25,200 gallons (600 barrels)
- Containment boom sufficient to protect fish and wildlife and sensitive environments
- Oil storage capacity for recovered oily material of at least 54,500 gallons (1,200 barrels)

According to the ACP, the Gray's Cut, Gray's Bayou, and Bessie Heights Canal, inlets are about 100 feet across each. The response equipment listed in this Plan includes 2,400 feet of containment boom on reels at the shoreline and 150 feet of containment boom in storage. The shoreline boom can be deployed within 30 minutes, the stored boom within 1 hour. Whether shoreline or stored boom is deployed to protect these sensitive areas depends upon the location of the point of release and the trajectory. Additional boom is available through any of the emergency response contractors listed in this Plan.

Worst-Case Discharge

(b) (7)(F), (b) (3)

As a terminal, any of these oils may be handled at any time. Tank 122, the largest tank and the basis for calculation of the worst case discharge volume, is dedicated to the storage of crude oils and condensates of various types. Gasolines and blendstocks could also be stored in the tank, although there are no plans to use this tank for such service.

The Sabine-Neches River is designated a higher volume port area (40 CFR 112, Appendix C, §1.1.2 [9]), which correlates to the following response tiers (40 CFR 112, Appendix E, §5.3):

- Tier 1 - 6 hours
- Tier 2 - 30 hours
- Tier 3 - 54 hours

Therefore, oil spill response resources must be located such that they are capable of arriving at the scene of a discharge within the times specified. For example, at a worst-case discharge, the first tier of response resources (*i.e.*, that amount of on-water and shoreline cleanup capacity necessary to respond to the fraction of the worst case discharge indicated in the worksheet) would arrive at the scene within 6 hours.

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The highest response resource volume, which occurs for Group 3 oils, and corresponding tiers and times are:

On-Water Oil Recovery Capacity (barrels/day)

- Tier 1 (6 hours): 33,356
- Tier 2 (30 hours): 44,474
- Tier 3 (54 hours): 66,712

Shoreline Cleanup Volume (barrels): 481,806

On-water response capacity that must be contracted for in advance is established according to operating area, e.g., “rivers and canals” designation for the Neches River (40 CFR 112, Appendix E, Table 5):

On-Water Response Capacity

(amount to be contracted for) (barrels/day):

- Tier 1 (6 hours): 1,500
- Tier 2 (30 hours): 3,500
- Tier 3 (54 hours): 6,000

The difference between the total on-water response capacity required and the amount that must be contracted by regulation is the amount which need not be contracted for in advance, but for which a source must be identified in the plan:

On-Water Response Amount to be Identified but not Advance Contracted (bpd)

- Tier 1 (6 hours): 31,856
- Tier 2 (30 hours): 40,974
- Tier 3 (54 hours): 60,712

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BEAUMONT TERMINAL**Trajectory Prediction**

The characteristics of the Neches River affect trajectory predictions. The Neches River:

- Is a narrow, deep-water navigable waterway
- Empties into the Gulf of Mexico 48 nautical miles away
- Flows in a predominately easterly direction
- Experiences southerly by southwesterly prevailing winds at an average annual wind speed of 10 miles per hour
- Has a normal current speed of 0 to 1 knot; with severe winds, its speed could reach 2 or 1 knots
- Has no periodic tide; according to the National Oceanic and Atmospheric Administration, the rise and fall of water in the area depends on meteorological conditions

According to the GLO publication, "A Guide for Preparing Oil Discharge and Response Plans for Major Coastal Facilities," oil moves downwind at 1.4% of the wind speed. Based on this equation and the average annual wind speed, an oil spill could be expected to move at a rate of 0.14 miles per hour in the north to northeasterly direction in average conditions. Under these average conditions, the wind would move the oil spill downstream and toward Company's waterfront facilities.

More accurate predictions of oil spill movement can be made using real time data on wind speed and wind direction. A weather station is maintained at the Number 1 Gate to the Terminal. The Gate Number 1 Security Guard is responsible for gathering current weather information for prediction of oil spill movement.

Wildlife Protection and Rehabilitation

Company has entered into an agreement with International Bird Rescue Research Center (IBRRC) to provide bird and wildlife services. IBRRC is available to perform the following services:

- Initial wildlife impact assessment with trustee agencies and responsible party
- Wildlife care facility design/operation
- Overall management of rehabilitation program
- Veterinary medical evaluation, monitoring, treatment
- Management of field collection of impacted wildlife
- Wildlife evaluation, triage, stabilization, cleaning
- Volunteer/work force recruitment, training, management
- Pre-release medical and physical evaluation
- Wildlife dietary planning, preparation, support
- Public affairs, and media contact
- Documentation and cost tracking

Standard operating procedures to activate IBRRC are provided at the end of this Section.

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Oil discharges, particularly in estuaries and near-shore areas, often cause severe stress to resident and migratory birds. Oil-contaminated birds are unable to fly, lose waterproofing which allows them to float, and lose the insulating property of their feathers. The birds may also become ill from ingesting oil-contaminated water.

Cleaning oil-contaminated birds requires specialized training and experience. Cleaning will not be attempted without proper direction from the appropriate authorities. Furthermore, the capture, handling, and harassment of resident and migratory birds is strictly forbidden by federal and state laws. The representative of the U.S. Department of Interior Fish and Wildlife Services and the state liaison to the U.S. Coast Guard Regional Response Team will arrange for and coordinate actions of professional and volunteer groups that wish to establish bird collection, cleaning, and recovery centers.

Response Strategies for SPR Pipeline

Releases near residential or commercial areas, or traffic areas will be isolated with the assistance of Jefferson Emergency Management and Police and Fire Departments as necessary, and evacuations will be initiated through these organizations if appropriate. Vacuum trucks will be used to remove oil from surface waters and soils, and contaminated soil will be removed mechanically or manually as appropriate.

Disposal Plans

All recovered product and contaminated media are managed in accordance with Federal (e.g., the Resource Conservation and Recovery Act [RCRA]), Texas, and Jefferson County regulations and are managed according to existing Terminal waste and product management practices and coordinated through the Terminal Environmental Department. Specific plans for recovered product, contaminated soil, contaminated debris, contaminated metal, and decontamination solutions and spent chemicals are detailed below.

Recovered Product

Recovered product is accumulated in frac tanks, barges, or Terminal tankage (depending on volume, amount of debris, viscosity, and gravity) and managed as recovered oil and sold to a crude oil refiner or reclaimer.

Contaminated Soil

Non-hazardous contaminated soil is accumulated in containers or piles. Upon receipt of TCEQ case-by-case approval, soil containing less than 1,500 total petroleum hydrocarbon (TPH) is placed in the stormwater pond (surface impoundment 003) for future remediation. Soil containing more than 1,500 TPH is disposed off-site at a TCEQ Class 1 Facility using existing Terminal profiles.

Contaminated Debris

Hydrocarbon contaminated materials, such as personal protective equipment, adsorbents, debris, and metal materials that cannot be recycled, are accumulated in containers and disposed off-site at TCEQ Class 1 Facilities using existing Terminal profiles.

Contaminated Metal

Where possible, contaminated metal, such as drums, tank parts, and valves, are decontaminated, accumulated in containers, and managed as scrap metal, sold for salvage value to a metal reclaimer.

Decontamination Solutions and Spent Chemicals

Spent decontamination solutions consisting of surfactants and oily-water are managed through the Terminal wastewater treatment systems or accumulated in drums for off-site disposal at a TCEQ Class 1 Facility. Spent chemicals are packed as lab packs or accumulated in drums or pails, as appropriate, and disposed off-site at a TCEQ Class 1 or Hazardous Waste Facility, as appropriate.

Containment and Drainage Planning**Diked Oil Storage Areas**

Drainage from diked oil storage areas is controlled by butterfly valves, which remain in the closed position. Oil spilled or leaked within the dikes is contained and then removed by vacuum trucks. Stormwater is also contained and is released slowly to prevent overloading the wastewater treating facilities. Water released from the diked areas flows by gravity to the diversion structure where it is lifted by screw pumps and delivered to oil-water separators. Here, the water is skimmed of oil before undergoing biological digestion and floc clarification. The effluent water is metered and sampled to ensure compliance with the Texas Pollutant Discharge Elimination System (TPDES) and TCEQ permits before being discharged at permitted Outfall 002 into the Neches River. Detailed records are kept on the volume and quality of the effluent water. A site drainage drawing is located in this Section. Outfall 002 is authorized to discharge facility wastewater and stormwater.

Non-Diked Areas**Stormwater from Process Areas**

Drainage from some undiked areas flows through the same sewer system that handles the diked areas. It is skimmed and treated along with other oily wastewater. The flow of water from some undiked areas is unrestrained and, during a rainfall event the wastewater treatment plant takes the first flush of stormwater and the remainder goes over an overflow weir and to Outfall 005 to the Neches River, after required sampling.

Stormwater from Non-Process Areas

Uncontaminated storm waters from selected undiked areas of the terminal are discharged at permitted Outfalls 001, 003, 004 and 005. These streams are monitored for oil and grease contamination, pH, and total organic carbon. Any permit violations are reported to the TCEQ and EPA. In the event of a spill in any of these areas, the flow to the outfall can be stopped and the oil contained and collected for reprocessing.

Sludge Disposal Area

Storm water impoundment (SWI) Sludge Disposal Impoundment (SDI) 003, 004, and 005. As a part of a Closed Plan with the TCEQ, both the SDI and SWI will be regarded and capped. As a result outfall 006 was permitted and constructed to discharge storm water from the storm water impoundment (SWI) to the Neches River. Additional outfalls may also have to be permitted.

Oil retaining booms will be deployed to contain oil which may be by-passed and vacuum trucks used to recover the oil.

Materials Handling Operations**Loading/Unloading Operations**

The loading/unloading rack areas for tank car/truck loading have a quick drain sewer system which drains to the oil-water separator. Oil from the rack areas flow to the separator. The separator is constructed of reinforced concrete. Warning signs are provided in the loading and unloading rack area to warn against vehicular departure before hoses or loading spouts are disconnected and removed. The drain and outlet connections on tank cars and trucks are inspected for leaks and damage prior to filling and departure. The tank car area is isolated from the site drainage system during loading/unloading operations. Loading and unloading procedures for tank cars and tank trucks meet the requirements and regulations of the DOT.

Catch basins, containing wall, sumps, and drip pans are used at the wharves to protect against leaks and drainage from loading hoses. The wharf containment devices drain to sumps, which are pumped on level control to a ballast water tank. High-level sump alarms are provided.

Vertical clearances within the Terminal are posted wherever an overhead pipeline crosses a roadway. These vertical clearances and posted terminal speed limits are stressed by the security guards to drivers making in-plant deliveries or service calls. For large loads, a guard or warehouse personnel will frequently accompany the trucks to the job site.

Pipeline Transfer Operations

The Beaumont Terminal also transfers material by pipeline. Pipelines are blocked or blinded until ready for use. Before the transfer can start the connection into or out of the appropriate tank is checked. Once the operator is satisfied that a proper connection exists, the operator gives the okay to start the transfer operation. Oil pipeline loading/unloading connections are blinded if they are to be out-of-service for an extended time.

Marine Transfer Operations

All dock sumps drain to an oil recovery tank. Hoses are blinded when not in use. Crude Dock Number 2 is designed with a 40 ft. x 2 ft. x 9 in., 448 gallon capacity drain trench, located immediately behind the loading arm pedestals, to collect any drips from flange joints, valve seals and loading arms. The trench drains by gravity flow into the dock sump tank. The sump tank is equipped with two, float activated, pumps that automatically pump any accumulated fluid through the 10-inch ballast line to the wastewater treatment plant. A 12-inch concrete curb around the loading platform provides about 13,400 gallons of spill containment for large product releases on the dock, such as a piping or hose rupture.

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SECTION 1B
BEAUMONT TERMINALWorksheet to Plan Volume of Response Resources for
Worst Case Discharge: Group 1 Oils (Non-persistent)*Part I Background Information*

Step (A) Calculate Worst Case Discharge in barrels (Appendix D)

(b) (7)
(F) (b)
(A)Step (B) Oil Group¹ (Table 3 and section 1.2 of this appendix)1Step (C) Operating Area (choose one) Nearshore/Inland X or Rivers
Great Lakes and Canals

Step (D) Percentages of Oil (Table 2 of this appendix)

Percent Lost
to Natural Dissipation80
(D1)Percent Recovered
Floating Oil10
(D2)Percent
Oil Onshore10
(D3)Step (E1) On-Water Oil Recovery $\frac{\text{Step (D2)} \times \text{Step (A)}}{100}$ (b) (7)(F), (b)
(3)Step (E2) Shoreline Recovery $\frac{\text{Step (D3)} \times \text{Step (A)}}{100}$

Step (F) Emulsification Factor

Step (G) On-Water Oil Recovery Resource Mobilization Factor
(Table 4 of this appendix)Tier 1
0.30
(G1)Tier 2
0.40
(G2)Tier 3
0.60
(G3)

¹ A facility that handles, stores, or transports multiple groups of oil must do separate calculations for each oil group on site except for those oil groups that constitute 10 percent or less by volume of the total oil storage capacity at the facility. For purposes of this calculation, the volumes of all products in an oil group must be summed to determine the percentage of the facility's total oil storage capacity.

(Cont'd)

Worksheet to Plan Volume of Response Resources for
Worst Case Discharge: Group 1 Oils (Non-persistent)

Part II On-Water Oil Recovery Capacity (barrels/day)

<i>Tier 1</i>	<i>Tier 2</i>	<i>Tier 3</i>
(b) (7)(F), (b) (3)		
<i>Step (G1)</i>	<i>Step (G2)</i>	<i>Step (G3)</i>

Part III Shoreline Cleanup Volume (barrels)

(b) (7)
(F), (b) (3)

Step (E2) x Step (F)

Part IV On-Water Response Capacity By Operating Area
(Table 5 of this appendix)
(Amount needed to be contracted for in barrels/day)

<i>Tier 1</i>	<i>Tier 2</i>	<i>Tier 3</i>
<u>1,500</u>	<u>3,500</u>	<u>6,000</u>
<i>Step (J1)</i>	<i>Step (J2)</i>	<i>Step (J3)</i>

Part V On-Water Amount Needed to be Identified, but not Contracted for in Advance
(barrels/day)

<i>Tier 1</i>	<i>Tier 2</i>	<i>Tier 3</i>
(b) (7)(F), (b) (3)		

Note: To convert from barrels/day to gallons/day, multiply the quantities in Parts II through V by 42 gallons/barrel.

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SECTION 1B
BEAUMONT TERMINALWorksheet to Plan Volume of Response Resources for
Worst Case Discharge: Group 2 Oils (Light Crudes)*Part I Background Information*

Step (A) Calculate Worst Case Discharge in barrels (Appendix D)

(b) (7)
(F) (b)
(A)Step (B) Oil Group² (Table 3 and section 1.2 of this appendix)2Step (C) Operating Area (choose one) Nearshore/Inland X or Rivers
Great Lakes and Canals

Step (D) Percentages of Oil (Table 2 of this appendix)

Percent Lost
to Natural Dissipation40
(D1)Percent Recovered
Floating Oil15
(D2)Percent
Oil Onshore45
(D3)Step (E1) On-Water Oil Recovery $\frac{\text{Step (D2)} \times \text{Step (A)}}{100}$ (b) (7)(F), (b)
(3)Step (E2) Shoreline Recovery $\frac{\text{Step (D3)} \times \text{Step (A)}}{100}$ Step (F) Emulsification Factor
(Table 3 of this appendix)Step (G) On-Water Oil Recovery Resource Mobilization Factor
(Table 4 of this appendix)

Tier 1

0.3
(G1)

Tier 2

0.4
(G2)

Tier 3

0.6
(G3)

² A facility that handles, stores, or transports multiple groups of oil must do separate calculations for each oil group on site except for those oil groups that constitute 10 percent or less by volume of the total oil storage capacity at the facility. For purposes of this calculation, the volumes of all products in an oil group must be summed to determine the percentage of the facility's total oil storage capacity.

(Cont'd)

Worksheet to Plan Volume of Response Resources for

Worst Case Discharge: Group 2 Oils (Light Crudes)

Part II On-Water Oil Recovery Capacity (barrels/day)

Tier 1	Tier 2	Tier 3
(b) (7)(F), (b) (3)		
Step (G1)	Step (G2)	Step (G3)

Step (F) x

Part III Shoreline Cleanup Volume (barrels)

(b) (7)

(F) (b)

Step (E2) x Step (F)

Part IV On-Water Response Capacity By Operating Area

(Table 5 of this appendix)

(Amount needed to be contracted for in barrels/day)

Tier 1	Tier 2	Tier 3
<u>1,500</u>	<u>3,500</u>	<u>6,000</u>
Step (J1)	Step (J2)	Step (J3)

Part V On-Water Amount Needed to be Identified, but not Contracted for in Advance

(barrels/day)

Tier 1	Tier 2	Tier 3
(b) (7)(F), (b) (3)		

- Step (J3)

Note:

To convert from barrels/day to gallons/day, multiply the quantities in Parts II through V by 42 gallons/barrel.

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SECTION 1B
BEAUMONT TERMINALWorksheet to Plan Volume of Response Resources for
Worst Case Discharge: Group 3 Oils (Medium Crudes and Fuels)*Part I Background Information**Step (A) Calculate Worst Case Discharge in barrels (Appendix D)*(b) (7)
(F) (b)
(A)*Step (B) Oil Group³ (Table 3 and section 1.2 of this appendix)*3*Step (C) Operating Area (choose one)* *Nearshore/Inland* X *or Rivers*
Great Lakes *and Canals**Step (D) Percentages of Oil (Table 2 of this appendix)**Percent Lost
to Natural Dissipation*20
(D1)*Percent Recovered
Floating Oil*15
(D2)*Percent
Oil Onshore*65
(D3)*Step (E1) On-Water Oil Recovery* $\frac{\text{Step (D2)} \times \text{Step (A)}}{100}$ (b) (7)(F),
(b) (3)*Step (E2) Shoreline Recovery* $\frac{\text{Step (D3)} \times \text{Step (A)}}{100}$ *Step (F) Emulsification Factor*
(Table 3 of this appendix)*Step (G) On-Water Oil Recovery Resource Mobilization Factor*
(Table 4 of this appendix)*Tier 1*
0.3
(G1)*Tier 2*
0.4
(G2)*Tier 3*
0.6
(G3)

³ A facility that handles, stores, or transports multiple groups of oil must do separate calculations for each oil group on site except for those oil groups that constitute 10 percent or less by volume of the total oil storage capacity at the facility. For purposes of this calculation, the volumes of all products in an oil group must be summed to determine the percentage of the facility's total oil storage capacity.

(Cont'd)

Worksheet to Plan Volume of Response Resources for
Worst Case Discharge: Group 3 Oils (Medium Crudes and Fuels)

Part II On-Water Oil Recovery Capacity (barrels/day)

Tier 1	Tier 2	Tier 3
(b) (7)(F), (b) (3)		
Step (G1)	Step (G2)	Step (G3)

ep (F) x

Part III Shoreline Cleanup Volume (barrels)

(b) (7)
(F), (b)

Step (E2) x Step (F)

Part IV On-Water Response Capacity By Operating Area
(Table 5 of this appendix)
(Amount needed to be contracted for in barrels/day)

Tier 1	Tier 2	Tier 3
<u>1,500</u>	<u>3,500</u>	<u>6,000</u>
Step (J1)	Step (J2)	Step (J3)

Part V On-Water Amount Needed to be Identified, but not Contracted for in Advance
(barrels/day)

Tier 1	Tier 2	Tier 3
(b) (7)(F), (b) (3)		
Part II Tier 1 - Step (J1)	Part II Tier 2 - Step (J2)	Part II Tier 2 - Step (J3)

Note:

To convert from barrels/day to gallons/day, multiply the quantities in Parts II through V by 42 gallons/barrel.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALWorksheet to Plan Volume of Response Resources for
Worst Case Discharge: Group 4 Oils (Heavy Crudes and Fuels)*Part I Background Information**Step (A) Calculate Worst Case Discharge in barrels (Appendix D)*(b) (7)
(F) (b)
(A)*Step (B) Oil Group⁴ (Table 3 and section 1.2 of this appendix)*4*Step (C) Operating Area (choose one)* *Nearshore/Inland* X *or Rivers*
Great Lakes *and Canals**Step (D) Percentages of Oil (Table 2 of this appendix)**Percent Lost
to Natural Dissipation*5
(D1)*Percent Recovered
Floating Oil*20
(D2)*Percent
Oil Onshore*75
(D3)*Step (E1) On-Water Oil Recovery* $\frac{\text{Step (D2)} \times \text{Step (A)}}{100}$ (b) (7)(F), (b)
(3)*Step (E2) Shoreline Recovery* $\frac{\text{Step (D3)} \times \text{Step (A)}}{100}$ *Step (F) Emulsification Factor*
(Table 3 of this appendix)*Step (G) On-Water Oil Recovery Resource Mobilization Factor*
(Table 4 of this appendix)*Tier 1*0.3
(G1)*Tier 2*0.4
(G2)*Tier 3*0.6
(G3)

⁴ A facility that handles, stores, or transports multiple groups of oil must do separate calculations for each oil group on site except for those oil groups that constitute 10 percent or less by volume of the total oil storage capacity at the facility. For purposes of this calculation, the volumes of all products in an oil group must be summed to determine the percentage of the facility's total oil storage capacity.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL(Cont'd)
Worksheet to Plan Volume of Response Resources for
Worst Case Discharge: Group 4 Oils (Heavy Crudes and Fuels)*Part II On-Water Oil Recovery Capacity (barrels/day)*

<i>Tier 1</i>	<i>Tier 2</i>	<i>Tier 3</i>
(b) (7)(F), (b) (3)		
<i>Step (E1) x Step (F) x</i> <i>Step (G1)</i>	<i>Step (E1) x Step (F) x</i> <i>Step (G2)</i>	<i>Step (E1) x Step (F) x</i> <i>Step (G3)</i>

Part III Shoreline Cleanup Volume (barrels) (b) (7)
(F) (b) (3)
Step (E2) x Step (F)

Part IV On-Water Response Capacity By Operating Area
(Table 5 of this appendix)
(Amount needed to be contracted for in barrels/day)

<i>Tier 1</i>	<i>Tier 2</i>	<i>Tier 3</i>
<u>1,500</u>	<u>3,500</u>	<u>6,000</u>
<i>Step (J1)</i>	<i>Step (J2)</i>	<i>Step (J3)</i>

Part V On-Water Amount Needed to be Identified, but not Contracted for in Advance
(barrels/day)

<i>Tier 1</i>	<i>Tier 2</i>	<i>Tier 3</i>
(b) (7)(F), (b) (3)		
<i>Part II Tier 1 - Step (J1)</i>	<i>Part II Tier 2 - Step (J2)</i>	<i>Part II Tier 2 - Step (J3)</i>

Note: To convert from barrels/day to gallons/day, multiply the quantities in Parts II through V by 42 gallons/barrel.

Oil Definitions

1. Non-persistent oils or Group 1 oils include:
 - a) A petroleum-based oil that, at the time of shipment, consists of hydrocarbon fractions:
 - i) At least 50 percent of which by volume, distill at a temperature of 340 degrees C (645 degrees F); and
 - ii) At least 95 percent of which by volume, distill at a temperature of 370 degrees C (700 degrees F); and
 - b) A non-petroleum oil with a specific gravity less than 0.8⁵
2. Persistent oils include:
 - a) A petroleum-based oil that does not meet the distillation criteria for a non-persistent oil. Persistent oils are further classified based on specific gravity as follows:
 - i) Group 2 - specific gravity less than 0.85;
 - ii) Group 3 - specific gravity equal to or greater than 0.85 and less than 0.95;
 - iii) Group 4 - specific gravity equal to or greater than 0.95 and less than 1.0;
or
 - iv) Group 5 - specific gravity equal to or greater than 1.0.
 - b) A non-petroleum oil with a specific gravity of 0.8 or greater. These oil are further classified based on specific gravity as follows:
 - i) Group 2 - specific gravity equal to or greater than 0.8 and less than 0.85;
 - ii) Group 3 - specific gravity equal to or greater than 0.85 and less than 0.95;
 - iii) Group 4 - specific gravity equal to or greater than 0.95 and less than 1.0;
or
 - iv) Group 5 - specific gravity equal to or greater than 1.0.

Source: 40 CFR 112, Appendix E, §1.2.

¹ Non-petroleum oil is oil of any kind that is not petroleum-based. It includes, but is not limited to, animal and vegetable oils.

INSPECTIONS AND MAINTENANCE

Examples of forms and checklists for documentation of response equipment inspections, tanks and tank secondary containment inspections, and surface impoundment (SI) and SI secondary containment inspections, are located in this Section and in the Terminal SPCC.

Copies of completed inspection and meeting forms are located at the terminal office.

All facility response equipment must be included in a comprehensive maintenance program. The maintenance program must ensure that the equipment is periodically inspected and maintained in good operating condition in accordance with the manufacturer's recommendations and best commercial practices; the inspection and maintenance must be documented (PREP Guidelines). The response equipment maintenance program includes:

- Monthly visual inspections by designated terminal personnel for inventory count, material degradation, adequate protection from the elements, and readiness
- Operability checks by use during at least two equipment deployments annually (exercises or spill response) with observations of operability; critiques will identify any problems for corrective action

A work order is issued for equipment requiring repair.

Equipment testing requirements apply to both operator-owned and contractor equipment. For DOT/PHMSA purposes, USCG classifications of oil spill response organizations serve as acceptable documentation of the oil spill response organization equipment testing program.

TRAINING AND DRILLS

Company will conduct drills per Section 12 of the Company Core Plan.

However for the purposes of clarification, the drill matrix located in Company Core Plan, Section 12, Page 9 as it applies to USCG. Facilities will provide the following drills;

1. Qualified individual notification exercises (quarterly).
2. At Least one of the exercises noted in Section 154.105(a)(2) thru (4) must be unannounced. "Unannounced" means the personnel participating in the exercise must not be advised in advance of the exact date, time and scenario of the exercise.
3. Facility shall participate in Area Exercises as directed by the On Scene Coordinator. The Area Exercises will involve equipment deployment to respond to the spill scenario developed by the Exercise Design Team of which the facility owner or operator will be a member. After participating in an Area Exercise, a facility owner or operator will not be required to participate in another area exercise for at least 6 years.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Example of Response Equipment Inspection Log

Example of Response Equipment Inspection Log
for the Month of _____, 200__

Equipment Inspected: _____ Date _____

Inspector	Comments	Corrective Action		
		Work Order No. and Date Submitted or Action Taken	Date Completed	Initials

Distribution: original - person with inspection responsibility; copy - HES Specialist

During inspection, make note of discrepancies in any of the below mentioned items, and report them immediately to the proper facility personnel.

- ☐ 1. Inventory (item and quantity)
- ☐ 2. Storage location
- ☐ 3. Accessibility (time to access and respond)
- ☐ 4. Operational status/condition
- ☐ 5. Actual use/testing (last test date and frequency of testing)
- ☐ 6. Shelf life (present age, expected replacement date)

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Example of Discharge Prevention Meeting Log



Training Course Sign-In Sheet

Class Name	Course Code (Mandatory)	Location (Mandatory)	Date	Time: Start	Finish
Instructor's Printed Name		Phone Number	Instructor's Signature(s)		
Additional Comments:					
Name (Print)	CAI (Mandatory)	Position	Company	Signature	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Please print your name neatly if not shown.
Course Code identification use link or contact CPL TR for assistance.

Additional attendees use Page 2

Send to CPL TR via email .

Distribution: original - HES Specialist
Attach Response Personnel Training Log
Reference: 40 CFR 112.20 (h)(8), Appendix F; 40 CFR 112.7 (e)

FACILITY SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN (SPCC)

The Facility SPCC is hereby adopted as part of this FRP by reference. A copy of the Facility SPCC is kept at the terminal office.

The Facility SPCC Table of Contents is located on the next page.

SPCC Table of Contents

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DIAGRAMS

(b) (7)(F), (b) (3)

(b) (7)(F), (b) (3)



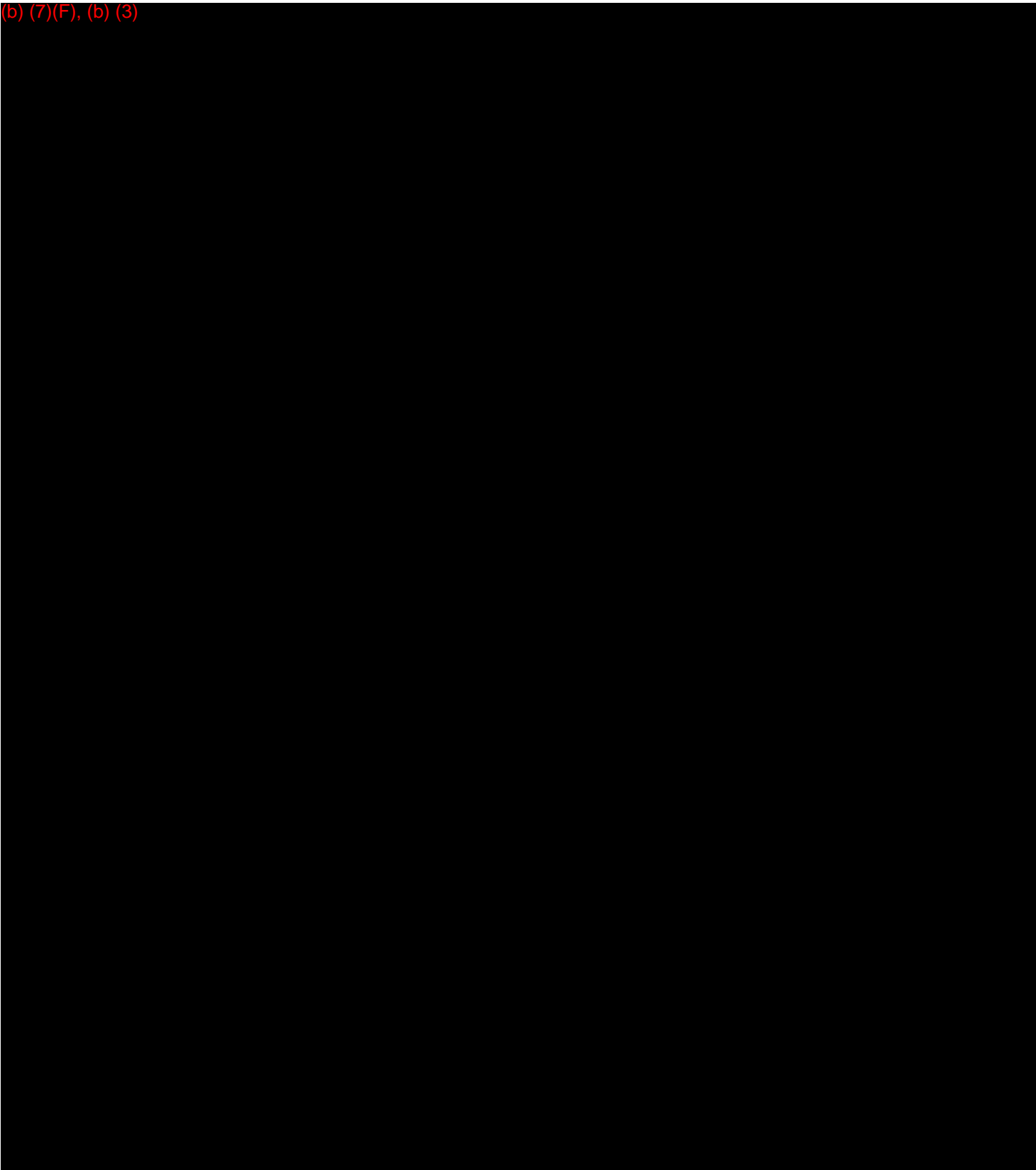
(b) (7)(F), (b) (3)



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

ACP SENSITIVE MAPS – TERRY



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

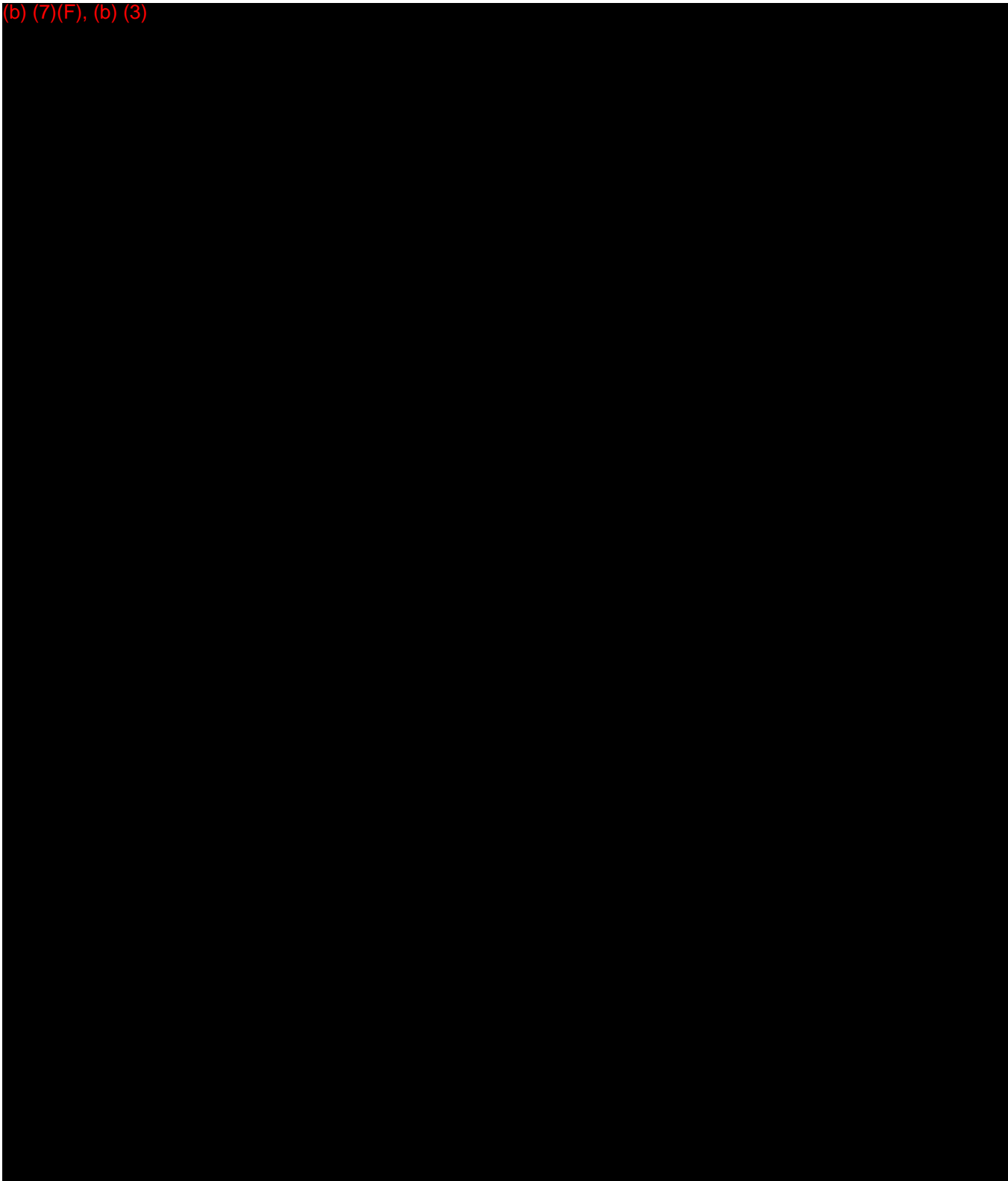
(b) (7)(F), (b) (3)

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

ACP SENSITIVE MAPS – WEST GREENS BAYOU

(b) (7)(F), (b) (3)

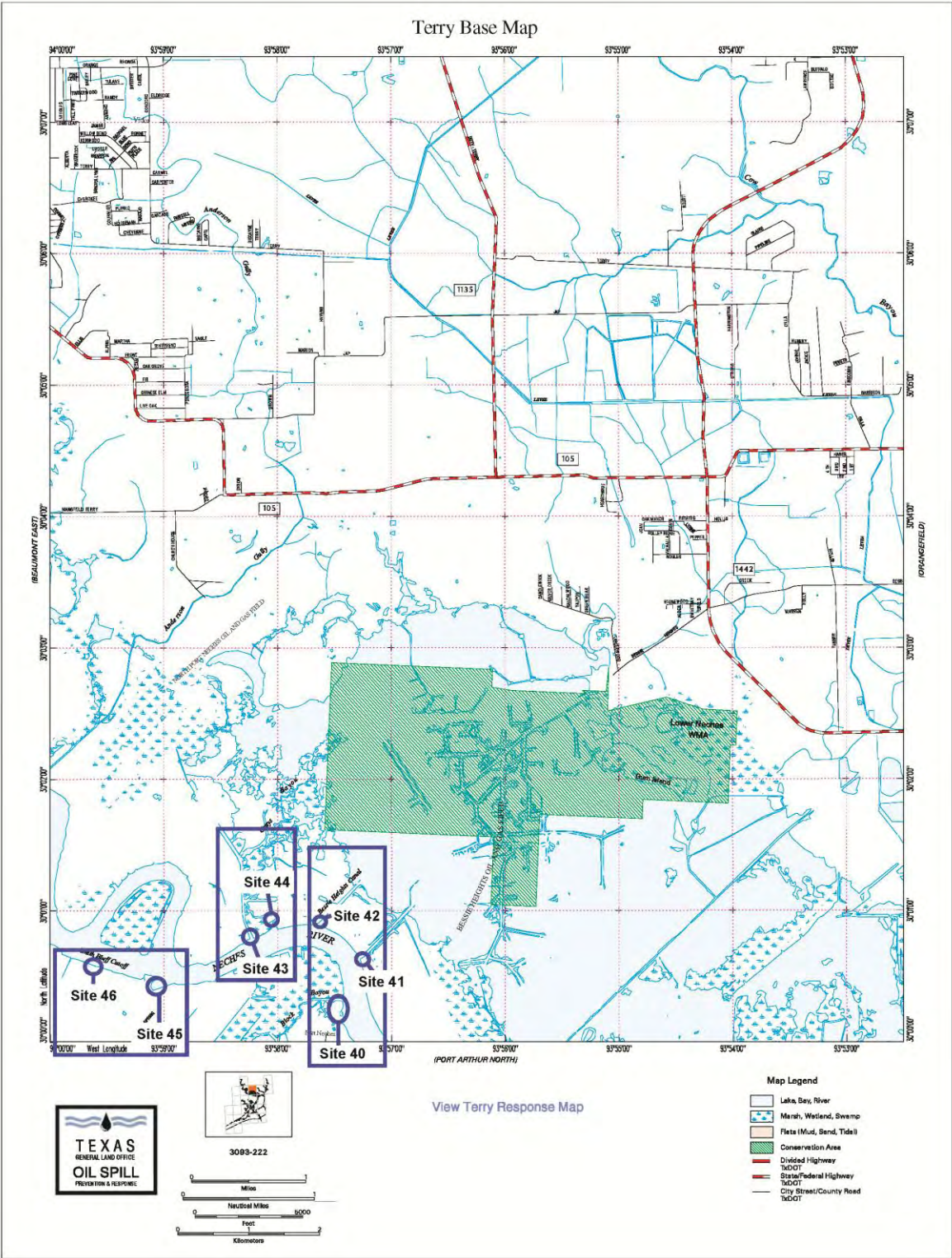


TEXAS STATE APPENDIX

SECTION 1B

BEAUMONT TERMINAL

TERRY BASE MAP



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Terry Site #40

Site Specific Information

TGLO Response Atlas Map #6, Polygon #4;
Neches River-Site #40

Site Information

Site 40 is Block Bayou, which consists of two inlets that merge into one. The two inlets are located approximately ½ mile North of Port Neches Park on the West bank of the Neches River. These inlets have road access from Mobil's tank farm property and from Block Street within the residential area in Port Neches. The shores of both inlets of Block Bayou are wooded with sloping banks. The small island that is formed from the two inlets merging is susceptible to inundation during high tidal cycles.

Latitude:

(b) (7)(F), (b)

Longitude:

(b) (7)(F), (b)

NOAA chart

11343

County:

Jefferson

Nearest ICW marker:

N/A

Date last visited:

2/1/00

Access

Closest Boat Ramp:

Port Neches Park

Distance:

2 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
TX Parks & Wildlife	(409) 736-2551
Mobil Corporation	(409) 839-1291

TEXAS STATE APPENDIX

SECTION 1B

BEAUMONT TERMINAL

Resources at Risk

Atlas Priority:	Not rated at this time. Site may require attention.
Environmental:	Brackish marsh habitat for wading birds
Economic:	Residential area, commercial traffic in the river, Mobil Corp.

Safety/ Cautionary Notes

Shallow, submerged objects

Booming Strategy Recommendation

Recommendation:	Use two sections of protective boom at a 45° angle, 200 and 400 feet. Vacuum trucks have access from Mobil Corp.'s tank farm and the residential Block Street in Port Neches.		
Number of personnel:	2-4	Tidal Influence:	Medium
Water depth at mouth:	2 ft	Width of inlet:	150 ft., 324 ft. at a 45° angle

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Terry Site #41

Site Specific Information

TGLO Response Atlas Map #3, Polygon #1,2,4,5,6;
Neches River-Site #41

Site Information

Site 41 is the first unnamed inlet South of Bessie Heights Canal located on the East bank of the Neches River. It is approximately 1 mile from Port Neches Park. This inlet leads to Bessie Heights Oil and Gas Field. This inlet is only accessible by a small john boat due to pilings positioned in the middle of the channel. The shore is mixed with open range and brush. A cattle ranch is located along the banks.

Latitude:	(b) (7)(F), (b) (7)	Longitude:	(b) (7)(F), (b) (3)
NOAA chart #	11343	County:	Orange
Nearest ICW marker:	N/A	Date last visited:	3/09/06

Access

Closest Boat Ramp:	Port Neches Park
Distance:	5 minutes
Boat type recommended:	Small, medium
Closest Airport:	Jefferson County
Closest Helicopter Landing:	Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
TX Parks & Wildlife	(409) 736-2551

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALResources at Risk**Atlas Priority:** **High****Environmental:** Brackish marsh habitat for threatened osprey, river otter, wading birds, shore birds, waterfowl, fish, shrimp and crab**Economic:** Cattle RanchSafety/ Cautionary Notes

Pilings are located in center of channel, strong currents, and reptiles in area

Booming Strategy Recommendation**Recommendation:** Refer to the picture below for booming strategy.**Number of personnel:** 6-8 **Tidal Influence:** High**Water depth at mouth:** 13 ft. **Width of inlet:** 330 ft. at 45° angle**Equipment:** 1100 ft of 18" boom

4 anchor systems with 40lb anchors

8 towing bridles for booming systems

8 T-posts

Come-along or block-and-tackle (to assist in the tightening of boom from shore)

3 boats

Proper length of line



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Terry Site #42

Site Specific Information

TGLO Response Atlas Map #3, Polygon #1,2,4,5,6;
Neches River-Site #42

Site Information

Site 42 is Bessie Heights Canal. This site is located on the East bank of the Neches River approximately 1 ¼ miles North of Port Neches Park. This canal leads to Bessie Heights Oil and Gas field and a highly sensitive marsh. The banks of this inlet consist of sand, clay, flat grassland, and brush. Both banks are used for cattle ranching.

Latitude:	(b) (7)(F), (b)	Longitude:	(b) (7)(F), (b)
NOAA chart #	11343	County:	Orange
Nearest ICW marker:	N/A	Date last visited:	4/27/06

Access

Closest Boat Ramp:	Port Neches Park
Distance:	6 minutes
Boat type recommended:	Small, medium
Closest Airport:	Jefferson County
Closest Helicopter Landing:	Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
TX Parks & Wildlife	(409) 736-2551

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALResources at RiskAtlas Priority: **High**

Environmental: Brackish marsh habitat for threatened osprey, river otter, wading birds, shore birds, waterfowl, fish, shrimp and crab.

Economic: Cattle Ranch

Safety/ Cautionary Notes

Strong currents are present in this area

Booming Strategy Recommendation

Recommendation: Refer to picture below for booming strategy.

Number of personnel: 8-10

Tidal Influence: High

Water depth at mouth: 10.5 ft.

Width of inlet: 350 ft. at a 45° angle

Equipment:

3 X 200ft of 18" boom

1 X 300ft of 18" boom

4 anchor systems with 40lb anchors

4 floats for anchor systems

8 towing bridles for booming systems

8 T-posts

Come-along or block-and-tackle (to assist in the tightening of boom from shore)

3 boats

Proper length of line



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Terry Site #43

Site Specific Information

TGLO Response Atlas Map #3, Polygon #1,2,4,5,6;
Neches River-Site #43

Site Information

Site 43 is the natural Gray's Bayou. This site is located on the East bank of the Neches River approximately 1 ¾ miles North of Port Neches Park. This Bayou feeds Bessie Heights marsh, which is a highly sensitive brackish marsh. The banks of this Bayou consist of sand, clay, flat grassland, and brush.

Latitude:

(b) (7)(F), (b) (7)(E)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11343

County:

Orange

Nearest ICW marker:

N/A

Date last visited:

2/1/00

Access**Closest Boat Ramp:**

Port Neches Park

Distance:

6 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur

(409) 723-6500

TGLO-via hotline

(800) 832-8224

TX Parks & Wildlife

(409) 736-2551

Resources at Risk

Atlas Priority:	High
Environmental:	Brackish marsh habitat for threatened osprey, river otter, wading birds, shore birds, waterfowl, fish, shrimp and crab
Economic:	Cattle Ranch

Safety/ Cautionary Notes

Strong currents are present in this area, submerged objects

Booming Strategy Recommendation

Recommendation:	Use 800 feet of protective boom. Due to strong tidal flow double boom and/or a “V” strategy may be needed.		
Number of personnel:	2-4	Tidal Influence:	High
Water depth at mouth:	2-5 ft.	Width of inlet:	450 ft. at a 45° angle

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Terry Site #44

Site Specific Information

TGLO Response Atlas Map #3, Polygon #1,2,4;
Neches River-Site #44

Site Information

Site 44 is the man-made Gray's Canal. This site is located approximately 2 miles North of Port Neches Park on the East bank of the Neches River. This canal feeds Bessie Heights marsh, which is a highly sensitive area. There are pipelines crossing warning signs on both banks of this canal.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart

11343

County:

Orange

Nearest ICW marker:

N/A

Date last visited:

7/19/05

Access

Closest Boat Ramp:

Port Neches Park

Distance:

8 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
TX Parks & Wildlife	(409) 736-2551

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALResources at Risk**Atlas Priority:****High****Environmental:**

Brackish marsh habitat for threatened osprey, river otter, wading birds, shore birds, waterfowl, fish, shrimp and crab

Economic:

Cattle Ranch

Safety/ Cautionary Notes

Strong currents, submerged objects, and reptiles may be present in this area

Booming Strategy Recommendation**Recommendation:**

Use 450 feet of protective boom. Due to strong tidal flow double boom and/or a "V" strategy may be needed. Refer to the picture below for booming strategy.

Number of personnel:

2-4

Tidal Influence:

High

Water depth at mouth:

3-5 ft.

Width of inlet:

150 ft. at 45° angle



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Terry Site #45

Site Specific Information

TGLO Response Atlas Map #3, Polygon #1,2,4;
Neches River-Site #45

Site Information

Site 45 is the intake point for Unocal located approximately 2 ½ miles North of Port Neches Park on the West bank of the Neches River. Notify Unocal if a spill threatens this area.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11343

County:

Jefferson

Nearest ICW marker:

N/A

Date last visited:

2/1/00

AccessClosest Boat Ramp:

Port Neches Park

Distance:

12 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman.

Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
TX Parks & Wildlife	(409) 736-2551
Don Stuckey with Unocal	(409) 722-3213

Resources at Risk

Atlas Priority:

Environmental:

Economic:

Not rated at this time. Site may require attention.

Brackish marsh habitat across Neches River

Unocal

Safety/ Cautionary Notes

Commercial vessel traffic in area

Booming Strategy Recommendation

Recommendation:

Number of personnel:

Water depth at mouth:

Inform Unocal if a spill threatens this site.

2

40 ft.

Tidal Influence:

Width of inlet:

Low

N/A

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Terry Site #46

Site Specific Information

TGLO Response Atlas Map #3, Polygon #N/A;
Neches River-Site #46

Site Information

Site 46 is the intake point for Sunoco located on the West side of the Neches River approximately 2 ½ miles North of Port Neches Park. Sunoco would need to be informed if a spill threatens this area.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart

11343

County:

Jefferson

Nearest ICW marker:

N/A

Date last visited:

2/2/00

Access

Closest Boat Ramp:

Port Neches Park

Distance:

12 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur

(409) 723-6500

TGLO-via hotline

(800) 832-8224

TX Parks & Wildlife

(409) 736-2551

Sunoco

(409) 721-4802

Resources at Risk

Atlas Priority:	Not rated at this time. Site may require attention.
Environmental:	Brackish marsh habitat
Economic:	Sunoco

Safety/ Cautionary Notes

Commercial traffic, contact Sunoco before working in this area

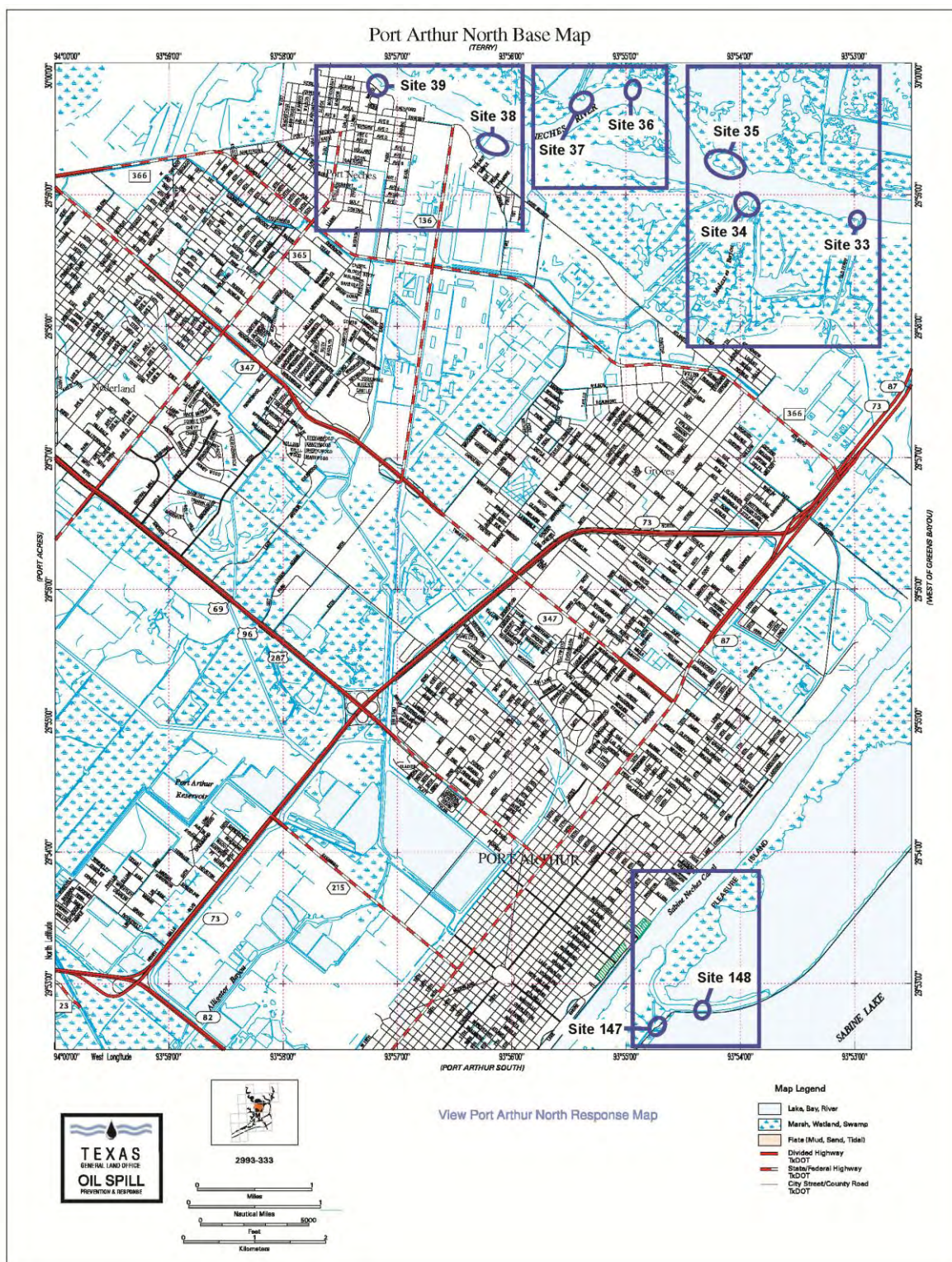
Booming Strategy Recommendation

Recommendation:	Contact Sunoco		
Number of personnel:	2-4	Tidal Influence:	Low
Water depth at mouth:	25 ft.	Width of inlet:	N/A

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

PORT ARTHUR NORTH BASE MAP



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Port Arthur North Site #33

Site Specific Information

TGLO Response Atlas Map #6, Polygon #9,11,13;
Neches River-Site #33

No Photograph Available

Site Information

Site 33 is the intake canal for Fina Oil and Chemical. This site is located on the West bank of the Neches River approximately $\frac{3}{4}$ of a mile North of the Rainbow Bridge. Fina Oil and Chemical should be notified if a spill threatens this area. The banks are high with clay substrate.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)
NOAA chart #	11343	County:	Jefferson
Nearest ICW marker:	N/A	Date last visited:	2/1/00

Access

Closest Boat Ramp:	Rainbow Marina; Port Neches Park
Distance:	2 minutes; 10 minutes
Boat type recommended:	Small, medium
Closest Airport:	Jefferson County
Closest Helicopter Landing:	Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
Fina Oil & Chemical	(409) 962-4421
TX Parks & Wildlife	(409) 736-2551

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALResources at Risk

Atlas Priority: **Not rated at this time. Site may require attention.**
Environmental: N/A
Economic: Fina Oil & Chemical

Safety/ Cautionary Notes

Strong currents in this area

Booming Strategy Recommendation

Recommendation: In the event of a spill, contact Fina Oil & Chemical. Use 500 feet of protective boom at a 45° angle. A reel of boom is located at this site.

Number of personnel: 2-4

Tidal Influence: High

Water depth at mouth: 25 ft.

Width of inlet: 348 ft. at
a 45° angle

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Port Arthur North Site #34

Site Specific Information

TGLO Response Atlas Map #6, Polygon #10,11,13;
Neches River-Site #34

Site Information

Site 34 consists of two adjacent inlets that are located on the West bank of the Neches River. This site is approximately 1½ miles North of the Rainbow Bridge/Hwy 73. Star Canal/Acid Canal is the West inlet and Molasses Bayou is the East inlet. Star/Acid Canal leads to Associated Marine Services Inc. There is road access to this canal from Sarah Jane Rd. The banks of both inlets are lined with trees that may be used to anchor boom.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11343

County:

Jefferson

Nearest ICW marker:

N/A

Date last visited:

2/1/00

AccessClosest Boat Ramp:

Rainbow Marina; Port Neches Park

Distance:

4 minutes; 6 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
TX Parks & Wildlife	(409) 736-2551
Associated Marine	(409) 962-0924

Resources at Risk

Atlas Priority:	Medium
Environmental:	Brackish marsh habitat for wading birds, shore birds, and waterfowl
Economic:	Associated Marine Inc.

Safety/ Cautionary Notes

Strong currents are present in this area

Booming Strategy Recommendation

Recommendation:	Use 300 feet of protective boom at a 45° angle.		
Number of personnel:	2-4	Tidal Influence:	Medium
Water depth at mouth:	4 ft.	Width of inlet:	246 ft. at a 45° angle

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Port Arthur North Site #35

Site Specific Information

TGLO Response Atlas Map #6, Polygon #1,4,5;
Neches River-Site #35

Site Information

Site 35 is the Entergy/GSU out-fall canal. This site is located on the East bank of the Neches River approximately 1 ¾ miles North of the Rainbow Bridge. This site consists of two inlets that are wide with brackish marsh shores. Power-lines run overhead.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)
NOAA chart #	11343	County:	Orange
Nearest ICW marker:	N/A	Date last visited:	4/18/06

Access

Closest Boat Ramp:	Rainbow Marina; Port Neches Park
Distance:	4 minutes; 6 minutes
Boat type recommended:	Small, medium
Closest Airport:	Jefferson County
Closest Helicopter Landing:	Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
TX Parks & Wildlife	(409) 736-2551
Entergy/GSU	(409) 735-7191

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALResources at Risk

Atlas Priority:

Medium

Environmental:

Brackish marsh habitat for wading birds, shore birds, and waterfowl

Economic:

Entergy/GSU

Safety/ Cautionary Notes

Strong currents present in this area

Booming Strategy Recommendation

Recommendation:

Refer to the picture below for booming strategy. This can also be used as a collection point on the north and south side of the inlet.

Number of personnel:

6-8

Tidal Influence:

Medium

Water depth at mouth:

18 ft.

Width of inlet:

528 ft. and 488 ft.
at a 45° angle

Equipment:

1100 ft of 18" Boom

2 Boats

(3) 30-lb minimum anchors

Prefer 6 tow bridles

3 anchoring systems

4 stakes (with means of pounding stakes)



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Port Arthur North Site #36

Site Specific Information

TGLO Response Atlas Map#6, Polygon #1,4;
Neches River-Site #36

Site Information

Site 36 is a small inlet located at the far side of the Fina Anchorage. The first entrance to the Fina Anchorage is located on the East bank of the Neches River approximately 2 ¼ miles North of the Rainbow Bridge. This site is located nearly ½ of a mile inside the Fina Anchorage on the East bank. This inlet feeds a sensitive marsh North of the Anchorage.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart

11343

County:

Orange

Nearest ICW marker:

N/A

Date last visited:

8/16/05

Access

Closest Boat Ramp:

Rainbow Marina, Port Neches Park

Distance:

5 minutes; 3 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur

(409) 723-6500

TGLO-via hotline

(800) 832-8224

TX Parks & Wildlife

(409) 736-2551

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALResources at Risk

Atlas Priority:

High

Environmental:

Brackish marsh habitat for river otter, wading birds, shore birds, and waterfowl, fish and crabs

Economic:

Commercial traffic uses this area frequently

Safety/ Cautionary Notes

Strong currents are present in this area

Booming Strategy Recommendation

Recommendation:

Use 200 feet of protective boom using a chevron configuration. Trees on the shore can be used for anchor points. Refer to the picture below for booming strategy.

Number of personnel:

4-6

Tidal Influence:

Medium

Water depth at mouth:

10 ft.

Width of inlet:

60 ft. at
a 45° angle

Equipment recommended:

200 ft of 18" boom
 2 boats
 4 stakes for anchoring (with means of pounding stakes)
 20-lb anchor
 50-60 ft of anchor line
 Anchor buoy



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Port Arthur North Site #37

Site Specific Information

TGLO Response Atlas Map #6, Polygon #1,3,4;
Neches River-Site #37

Site Information

Site 37 consists of three small inlets located on the Northwest bank of the Fina Anchorage. The second entrance to the Fina Anchorage is located on the East bank of the Neches River approximately 3 ¼ miles North of the Rainbow Bridge. This site is located just inside the Fina Anchorage on the Northwest bank. The water depth drops quickly near the shore. These inlets may be difficult to recognize during high tides.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart

11343

County:

Orange

Nearest ICW marker:

N/A

Date last visited:

3/08/06

Access

Closest Boat Ramp:

Port Neches Park

Distance:

2 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur

(409) 723-6500

TGLO-via hotline

(800) 832-8224

TX Parks & Wildlife

(409) 736-2551

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALResources at Risk

Atlas Priority:

High

Environmental:

Brackish marsh habitat for river otter, wading birds, shore birds, and waterfowl, fish and crab

Economic:

Commercial traffic uses this area frequently

Safety/ Cautionary Notes

Shallow near shore, strong currents are present in this area

Booming Strategy Recommendation

Recommendation:

Booming off the inlets may be difficult. It may be better to do a cascade system in the river to keep the oil out of the oxbow. Refer to the picture below for booming strategy.

Number of personnel:

8-10

Tidal Influence:

Medium

Water depth at mouth:

7 ft.

Width of inlet:

150 ft.,
690 ft., 342 ft.

Equipment recommended:

2100 ft of 18" boom
2 boats
6 stakes for anchoring (with means for pounding stakes)
3 anchoring systems
Tow bridles as needed

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Port Arthur North Site #38

Site Specific Information

TGLO Response Atlas Map #6, Polygon #N/A;
Neches River-Site #38

Site Information

Site 38 is the intake point for Motiva Enterprises. This site is located on the West bank of the Neches River approximately 4 miles North of the Rainbow Bridge. In the event of a spill, Motiva should be notified. There is a boom reel located next to the intake.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart

11343

County:

Jefferson

Nearest ICW marker:

N/A

Date last visited:

2/1/00

Access

Closest Boat Ramp:

Port Neches Park

Distance:

2 minutes

Boat type recommended:

John boat only.

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur

(409) 723-6500

TGLO-via hotline

(800) 832-8224

Motiva Enterprises

(409) 989-7108

TX Parks & Wildlife

(409) 736-2551

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALResources at RiskAtlas Priority: **Not rated at this time. Site may require attention.**

Environmental: N/A

Economic: Motiva Enterprises

Safety/ Cautionary Notes

Commercial traffic in area

Booming Strategy Recommendation

Recommendation: Boom on site, notify Motiva Enterprises if a spill threatens this area

Number of personnel: 2-4 Tidal Influence: Medium

Water depth at mouth: 7 ft. Width of inlet: 90 ft. across

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Port Arthur North Site #39

Site Specific Information

TGLO Response Atlas Map #6, Polygon #11,13;
Neches River-Site #39

No Photograph Available

Site Information

Site 39 is the intake point for the Huntsman Corporation C-4 docks. The intake is located just South of Port Neches Park on the Neches River and easily accessed by from Grigsby Street in Port Neches. The intake has a concrete barrier in place, but Huntsman should be notified if a spill threatens this area.

Latitude:	(b) (7)(F), (b) (2)	Longitude:	(b) (7)(F), (b) (2)
NOAA chart #	11343	County:	Orange
Nearest ICW marker:	N/A	Date last visited:	2/1/00

Access

Closest Boat Ramp:	Port Neches Park
Distance:	1 minute
Boat type recommended:	Acceptable for most small craft.
Closest Airport:	Jefferson County
Closest Helicopter Landing:	Jefferson County Airport

Directions from MSU Port Arthur

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
Huntsman Main Gate	(409) 989-6536
TX Parks & Wildlife	(409) 736-2551

Resources at Risk

Atlas Priority:	Not rated at this time. Site may require attention.
Environmental:	N/A
Economic:	Huntsman Corporation

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Safety/ Cautionary Notes
Strong tidal flow; check tides

Booming Strategy Recommendation

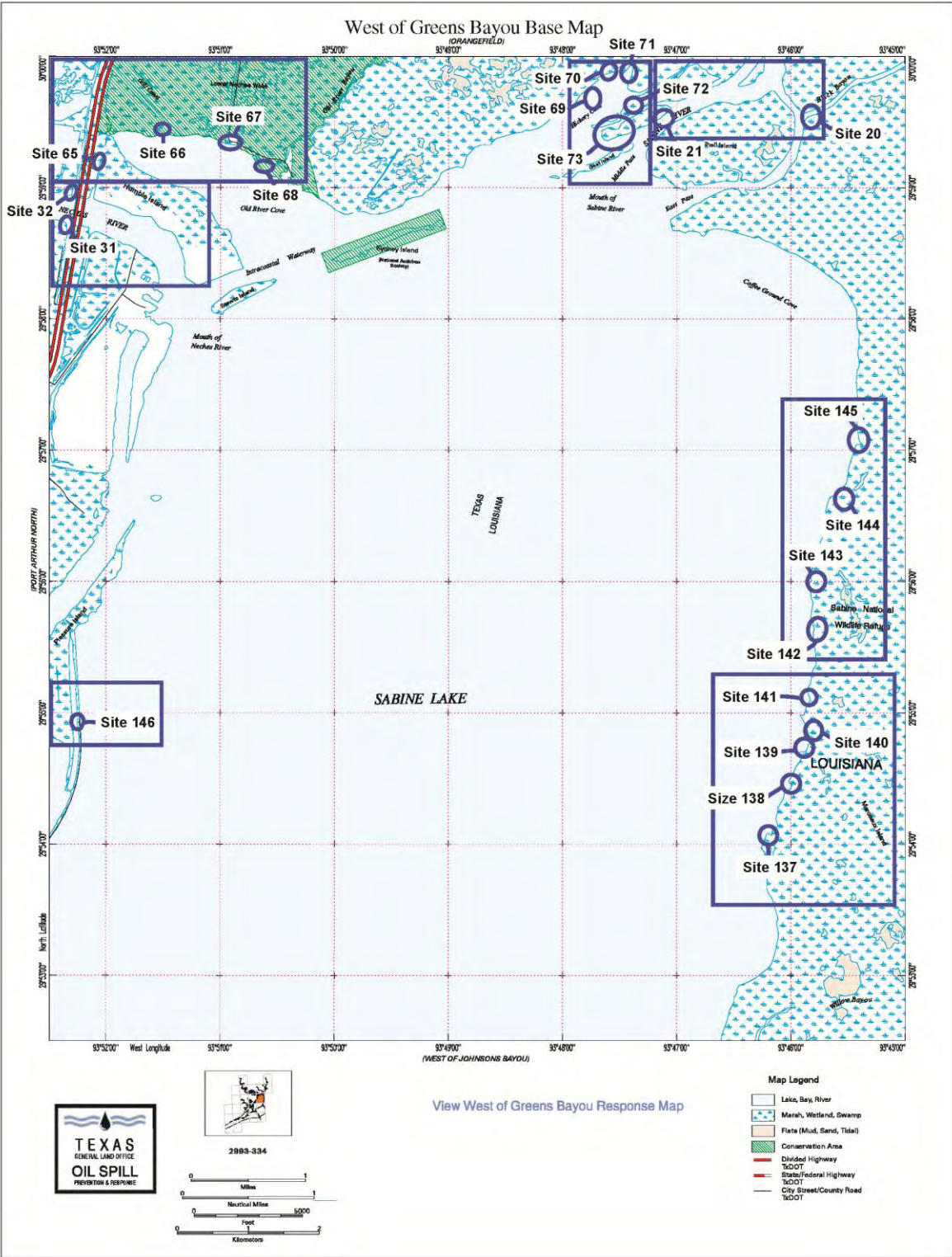
Recommendation:	Notify Huntsman		
Number of personnel:	2-4	Tidal Influence:	Medium
Water depth at mouth:	35 ft.	Width of inlet:	N/A

TEXAS STATE APPENDIX

SECTION 1B

BEAUMONT TERMINAL

WEST OF GREENS BAYOU BASE MAP



TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

West of Greens Bayou Site #31

Site Specific Information

TGLO Response Atlas Map #5, Polygon #2,3,5;
Neches River-Site #31

Site Information

Site 31 is the canal that leads to Rainbow Marina. This canal is located at the base of the South end of the Rainbow Bridge on the West bank of the Neches River. This site is approximately 1¼ miles from the point where the Neches River empties into Sabine Lake. Recreational boats, shrimp vessels, waterfront homes, and Esther's Seafood Restaurant are located within this site.

Latitude:

(b) (7)(F), (b) (7)(G)

Longitude:

(b) (7)(F), (b) (7)(G)

NOAA chart #

11343

County:

Jefferson

Nearest ICW marker:

N/A

Date last visited:

2/1/00

Access

Closest Boat Ramp:

Rainbow Marina; Port Neches Park

Distance:

Adjacent; 10 minutes

Boat type recommended:

Small, medium

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
TX Parks & Wildlife	(409) 736-2551
Rainbow Marina	(409) 962-9578
Esther's Seafood	(409) 962-6268

Resources at Risk

Atlas Priority:	Low
Environmental:	N/A
Economic:	Rainbow Marina

Safety/ Cautionary Notes

Submerged structures next to bridge.

Booming Strategy Recommendation

Recommendation:	Use 800 feet of protective boom at a 45° angle.		
Number of personnel:	2-4	Tidal Influence:	Medium
Water depth at mouth:	10 ft.	Width of inlet:	519 ft. at a 45° angle

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

West of Greens Bayou Site #32

Site Specific Information

TGLO Response Atlas Map #5, Polygon #1;
Neches River-Site #32

Site Information

Site 32 is the canal that runs parallel to the North side of the Rainbow Bridge and is located on the East bank of the Neches River. This site is approximately 1¼ miles North of where the Neches River empties into Sabine Lake. This canal leads to a shallow marsh surrounding the bridge. The East bank of this marsh is part of the Lower Neches Wildlife Management Area.

Latitude:	(b) (7)(F),	Longitude:	(b) (7)(F), (b)
NOAA chart #	11343	County:	Orange
Nearest ICW marker:	N/A	Date last visited:	2/1/00

Access

Closest Boat Ramp:	Rainbow Marina; Port Neches Park
Distance:	1 minute; 10 minutes
Boat type recommended:	Acceptable for most small craft.
Closest Airport:	Jefferson County
Closest Helicopter Landing:	Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TGLO-via hotline	(800) 832-8224
LA State Police	(225) 925-6595
LOSCO-via rotating pager	(800) 538-5388
	Pin # 129-340
TX Parks & Wildlife	(409) 736-2551
Rainbow Marina	(409) 962-9578

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL**Resources at Risk****Atlas Priority:** **Medium, High on East bank****Environmental:** Lower Neches Wildlife Management Area on the East bank. Habitat for wading birds, waterfowl, alligator, fish, crab and shrimp.**Economic:** Rainbow Marina Canal is directly across the Neches River from this inlet**Safety/ Cautionary Notes**

Strong currents are present in this area, shallow near bridge, submerged structures present

Booming Strategy Recommendation**Recommendation:** Use 800 feet of protective boom at a 45° angle. The banks consist of soft mud. Stakes may be needed to anchor boom or the bridge supports/pilings may be used as anchors.**Number of personnel:**

2-4

Tidal Influence:

High

Water depth at mouth:

5 ft.

Width of inlet:

654 ft.

at a 45° angle

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

West of Greens Bayou Site #65

Site Specific Information

TGLO Response Atlas Map #5, Polygon #11,12,17;
Old River/Hickory Cove-Site #65

Site Information

Site 65 is a shallow inlet inside Old River Cove and on the Northeast side of Humble Island. This inlet leads to a culvert located approximately 100 yards East of the Veteran's Memorial Bridge. Lower Neches Wildlife Management Area signs are posted at the mouth of this inlet. There is road access to this site from Hwy 73. Heading toward Bridge City you would take the first Right turn immediately after the Veteran's Memorial Bridge. This is an unnamed road that will lead to a gate. Once inside the gate the road leads directly to this culvert. This would be an excellent collection point that vacuum trucks could utilize.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart

11342

County:

Orange

Near ICW Marker

N/A

Date last visited:

2/24/00

Access

Closest Boat Ramp:

Rainbow Marina, Port Neches Park

Distance:

5 minutes, 10 minutes

Boat type recommended:

Air boat only

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TXGLO-via Hotline	(800) 832-8224
L.A. State Police	(225) 925-6595
LOSCO-via rotating pager	(800) 538-5388

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINALLower Neches Wildlife
Management AreaPin # 129-340
(409) 736-2551**Resources at Risk****Atlas Priority:****Medium****Environmental:**

Wetlands, habitat for wading birds, waterfowl, alligator, fish, crab and shrimp

Economic:

Cattle Ranch

Safety/Cautionary Notes

Shallow, submerged objects not marked

Booming Strategy Recommendations**Recommendations:**

Use 600 feet of protective boom in a “V” pattern or at a 45° angle. This area could possibly be used as a collection point. See Site Information for road access.

Number of personnel:

2

Tidal influence:

Medium

Water depth:

2 ft.

Width of inlet:

300 ft.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

West of Greens Bayou Site #66

Site Specific Information

TGLO Response Atlas Map #5, Polygon #11,12,17;
Old River/Hickory Cove-Site #66

Site Information

Site 66 is the Entergy (formerly GSU) intake canal. It is located at the North end of Old River Cove. The Northeast bank of the canal is the Lower Neches Wildlife Management Area. There is a levee road on the Wildlife Management Area that could provide possible access to the canal.

Latitude:

(b) (7)(F), (b)

Longitude:

(b) (7)(F), (b)

NOAA chart

11342

County:

Orange

Near ICW Marker :

N/A

Date last visited:

2/24/00

Access

Closest Boat Ramp:

Rainbow Marina, Port Neches Park

Distance:

5 minutes, 10 minutes

Boat type recommended:

Air boat only

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TXGLO-via Hotline	(800) 832-8224
LA State Police	(225) 925-6595
LOSCO-via rotating pager	(800) 538-5388
	Pin # 129-340
Lower Neches Wildlife Management Area	(409) 736-2551

TEXAS STATE APPENDIX

SECTION 1B

BEAUMONT TERMINAL

Resources at Risk

Atlas Priority:

High

Environmental:

Wetlands, habitat for wading birds, waterfowl, alligator, fish, crab and shrimp.

Economic:

Cattle Ranch, Entergy/GSU should be notified if a spill threatens this area.

Safety/Cautionary Notes

Shallow, submerged objects not marked

Booming Strategy Recommendations

Recommendations:

Use 800 feet of protective boom in a “V” pattern or a 45° angle either at the mouth or near the bridge where Hwy 73 passes over this canal. The Hwy 73 bridge could be used as a collection point due to the road access available.

Number of personnel:

2

Tidal influence:

High

Water depth:

2 ft.

Width of inlet:

300 ft. at a 45° angle

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

West of Greens Bayou Site #67

Site Specific Information

TGLO Response Atlas Map #5, Polygon #11,12,17;
Old River/Hickory Cove-Site #67

Site Information

Site 67 consists of two inlets that merge together and form a canal leading into the Lower Neches Wildlife Management Area. This canal is on the North side of Old River Cove and runs parallel to the road to Bailey's Fish Camp (Lake Street).

Latitude:

(b) (7)(F), (b)

Longitude:

(b) (7)(F), (b)

NOAA chart

11342

County:

Orange

Near ICW Marker

N/A

Date last visited:

2/24/00

Access

Closest Boat Ramp:

Rainbow Marina, Port Neches Park

Distance:

5 minutes, 10 minutes

Boat type recommended:

Air boat only

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TXGLO-via Hotline	(800) 832-8224
LA State Police	(225) 925-6595
LOSCO-via rotating pager	(800) 538-5388
	Pin # 129-340
Lower Neches Wildlife	
Management Area	(409) 736-2551
Bailey's Fish Camp	(409) 735-4298

Resources at Risk

Atlas Priority:	High
Environmental:	Wetlands, habitat for wading birds, waterfowl, alligator, fish, crab and shrimp
Economic:	Lower Neches Wildlife Management Area

Safety/Cautionary Notes

Shallow, submerged objects not marked.

Booming Strategy Recommendations

Recommendations:	Use 400 feet of protective double boom at each mouth at a 45° angle or a “V” pattern.		
Number of personnel:	2	Tidal influence:	Medium
Water depth:	2 ft.	Width of inlet:	156 ft. at a 45° angle

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

West of Greens Bayou Site #68

Site Specific Information

TGLO Response Atlas Map #5, Polygon #12,17;
Old River/Hickory Cove-Site #68

Site Information

Site 68 is the mouth of Old River Bayou. This site is located on the Northeast side of Old River Cove. Bailey's Fish Camp is adjacent to this site and has a boat launch, snack items, and drinks. To get to Bailey's Fish Camp you would take Hwy 73 East into Bridge City. The first red light is Lake St. Take a Right on Lake St. and Bailey's is at the end of that road.

Latitude:

(b) (7)(F), (b)

Longitude:

(b) (7)(F), (b)

NOAA chart #

11342

County:

Orange

Near ICW Marker

N/A

Date last visited:

2/24/00

Access

Closest Boat Ramp:

Rainbow Marina, Port Neches Park

Distance:

5 minutes, 10 minutes

Boat type recommended:

Air boat only

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Jefferson County Airport

Directions from MSU Port Arthur

To reach Rainbow Marina you would take Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East, to the Right, immediately before you reach the Veteran's Memorial Bridge. Travel underneath the Veteran's Memorial Bridge. Rainbow Marina is located near the base of the Rainbow Bridge on Hwy 73 West.

To reach Port Neches Park you would take Hwy 365 toward Port Neches. Take a Right on Hwy 366 and continue down to the first red light, which is Merriman. Take a Left on Merriman. Travel past Port Neches High School. The park is located at the end of Merriman.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TXGLO-via Hotline	(800) 832-8224
LA State Police	(225) 925-6595
LOSCO-via rotating pager	(800) 538-5388
	Pin # 129-340
Lower Neches Wildlife	

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

Management Area	(409) 736-2551
Bailey's Fish Camp	(409) 735-4298

Resources at Risk**Atlas Priority:****High****Environmental:**

Wetlands, habitat for wading birds, waterfowl, alligator, fish, crab and shrimp.

Economic:

Bailey's Fish Camp

Safety/Cautionary Notes

Shallow, submerged objects not marked.

Booming Strategy Recommendations**Recommendations:**

You may need up to 1000 feet of boom for this area. It could be used as a collection point with excellent road access from Lake St. It could also be protected using the boom in a "V" pattern or at a 45° angle.

Number of personnel:

2

Tidal influence:

Medium

Water depth:

2 ft.

Width of inlet:

300 ft.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

West of Greens Bayou Site #146

Site Specific Information

TGLO Response Atlas Map #5, Polygon #10;
Sabine Lake-Site #146

Site Information

Site 146 is the second spoil culvert on the North Revetment/Levee Road on Pleasure Island. This site consists of three culverts that lay side by side and are surrounded by a metal walkway or pier. This site allows water to flow to and from Sabine Lake to the North Pleasure Island marsh. The metal structure surrounding the culverts has the ability to hold 2X6 boards to eliminate water exchange from Sabine Lake to the marsh. The metal pier is used by recreational fisherman year around. This site is accessible from the road by traveling Hwy 69/96 South to Hwy 73 East. Exit off Hwy 73 East onto Hwy 82 East. Travel over the Martin Luther King Bridge and take a Right on TB Ellison Parkway. Travel past Pleasure Island Marina/Port Arthur Yacht Club. The road will come to a "T" intersection. Take a Left at the stop sign on the North Revetment/ Levee Road and travel approximately 4 ¾ miles. Site 146 will be located on the Left side of the road.

Latitude:

(b) (7)(F), (b)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart

11342

County:

Jefferson

Near ICW Marker

Date last visited:

2/22/00

Access

Closest Boat Ramp:

Pleasure Island Marina/Port Arthur Yacht Club;
Pleasure Island Music Park

Distance:

10 minutes; 15 minutes

Boat type recommended:

Shallow, Aluminum hull

Closest Airport:

Jefferson County

Closest Helicopter Landing:

Pleasure Island Marina/Port Arthur Yacht Club; Sabine
Pass

Directions from MSU Port Arthur

To reach Pleasure Island Marina/Port Arthur Yacht Club boat launch you would take Hwy 69/96 South to Hwy 73 West. Exit off of Hwy 73 West onto Hwy 82 East. Travel over the Martin Luther King (MLK) Bridge to Pleasure Island. Take a Right at the stop sign onto TB Ellison Parkway. Continue straight through the 4-way stop sign. The Yacht Club and Marina is located to the right, just after the stop sign. Continue straight to reach the boat launch. The road will come to a "T" intersection. Take a Right at the stop sign and the Pleasure Island Marina/Port Arthur Yacht Club boat launch is located at the end of the road.

TEXAS STATE APPENDIX

SECTION 1B
BEAUMONT TERMINAL

To reach Pleasure Island Music Park's boat launch you would take Hwy 69/96 South to Hwy 73 West. Exit off of Hwy 73 West onto Hwy 82 East. Travel over the Martin Luther King (MLK) Bridge to Pleasure Island. Take a Right at the stop sign onto TB Ellison Parkway. Travel approximately 1½ miles down and the Music Park is located on the Right side of the road.

Trustees/ Contact Numbers

USCG MSU Port Arthur	(409) 723-6500
TXGLO-via hotline	(800) 832-8224
Pleasure Island Commission	(409) 985-4385
LA State Police	(225) 925-6595
LOSCO-via rotating pager	(800) 538-5388
	Pin # 129-340
Port Arthur Police	(409) 983-8600
Port Arthur Fire	(409) 983-8700
Sabine National	
Wildlife Refuge	(337) 762-3816

Resources at Risk

Atlas Priority: **Medium**

Environmental: Habitat for birds, fish, and crabs.

Economic: Pleasure Island is widely used for recreational purposes, especially during summer months.

Safety/Cautionary Notes

This spoil culvert is a popular spot for recreational fishermen. Sabine Lake is very shallow near the culvert.

Booming Strategy Recommendations

Recommendations: Damming off the 3 openings to this culvert with 2X6 boards placed into the slots provided on the metal structure and sorbent pads around the edges should insure that pollution does not enter this area.

Number of personnel:	2	Tidal influence:	Medium
Water depth:	2 ft.	Width of inlet:	N/A

TEXAS STATE APPENDIX**SECTION 1C
VAN PIPELINE SYSTEM**

VAN PIPELINE SYSTEM

SECTION 1C VAN PIPELINE SYSTEM

THE VAN PIPELINE SYSTEM IS ABANDONED 1

TEXAS STATE APPENDIX**SECTION 1C
VAN PIPELINE SYSTEM**

THE VAN PIPELINE SYSTEM IS ABANDONED

NOTIFICATIONS

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NOTIFICATION PROCEDURES

Note: The following pages explain Company notification reporting procedures. For a detailed list of telephone numbers, including Agencies, OSRO's and other resources, see the Front of Pocket Information Section of this State Appendix. Additional Beaumont Terminal telephone numbers can be located in the front cover sleeve of this State Appendix.

Appropriate and timely notification of the incident is essential to activate response organizations, alert company management, obtain assistance and cooperation of agencies, mobilize resources and comply with Federal, State and Local regulations.

The order of notification is based on the premise that those who can render assistance in controlling or minimizing the impacts of an incident be notified before those that are remote from the incident. Some notifications may occur simultaneously. The notification process encompasses the following categories:

- Internal Company notification
 - ☐ Activate Immediate Response Team
 - ☐ Area Management
 - ☐ Company Response Teams, as needed
 - ☐ Higher Company management levels as necessary.
- External notifications
 - ☐ Response contractors
 - ☐ Response cooperative
 - ☐ Concerned Agencies
 - ☐ Potentially impacted third parties

An Incident Information Summary, shown in this Section, should be used to record information provided by the spill observer. When spills are reported by outside observers, they are often vague as to spill location and other details necessary for rapid response. It is important to obtain as much information as possible to facilitate decisions on the appropriate response actions.

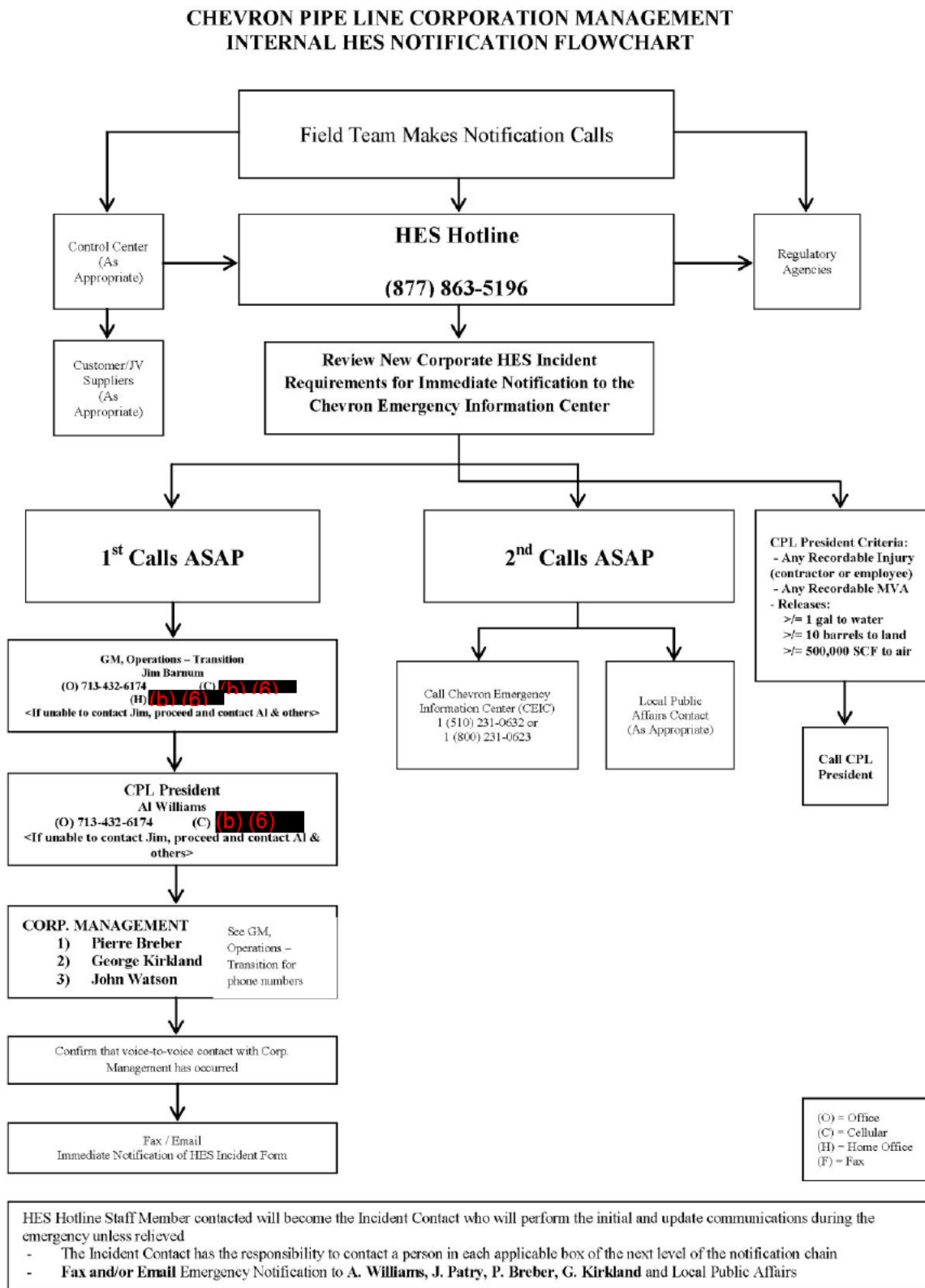
The Notification Matrix in this Section shows a typical notification procedure. The order and timeliness of notification will depend on size and location of the spill. It should be based on the premise that safety, controlling the release and minimizing the impacts of the incident are of paramount concern.

INTERNAL NOTIFICATION**Initial Notifications for Immediate Response Actions**

The following internal notifications shall be implemented for any oil spill incident. Notification will not be delayed if Team Leaders are not immediately available. Authorization is given to bypass management levels as necessary to provide immediate notification to appropriate levels of Company management. The Spill Observer, or the first Company person notified of a spill that may be from a Company facility, shall notify the Team Leader. If the spill is initially reported to the Control Center, the Control Center Controller will notify the appropriate field Team Leader.

- The Team Leader shall notify appropriate operating personnel to control the operations that may be involved in the release.
- The Team Leader will assess the situation and if appropriate, activate the Immediate Response Team.
- The Team Leader shall notify the Pipeline Operations Specialist. Additional notifications will be made as indicated.

INTERNAL HES NOTIFICATION FLOWCHART



Revised 05/2014

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

INCIDENTS REQUIRING IMMEDIATE INTERNAL CORPORATE MANAGEMENT NOTIFICATION

Note: Internal Corporate Notification information only, not synonymous with Federal or State spill reporting Notifications Criteria located elsewhere in this Plan.

Incidents Requiring Immediate Notification to Corporate Management

Highlighted Fields Indicate Reporting Requirements of a More Stringent Nature Within and Through the Chevron Gas & Midstream Organization

Incident Type	CG&M SBU* President or VP	CG&M President	Corp Emergency Response Staff and VP, HES	Reporting Officer and Chairman
Work-related fatality of employee, contractor, or third party	M	M	M	M
Work-related recordable injuries of employee, contractor, or third party	M	M		
Incidents resulting in multiple employee, contractor, or third party overnight hospitalization; (except for observation only)	M	M	M	M
Petroleum or petroleum product spills <u>equal to or greater than 1 gallon and less than 1 barrels to water</u>	M			
Petroleum or petroleum product spills <u>equal to or greater than 1 barrels and less than 50 barrels to water</u>	M	M		
Petroleum or petroleum product spills <u>greater than 50 barrels to water</u>	M	M	M	M
Petroleum or petroleum product spills <u>greater than 10 barrels and less than 500 barrels to land</u>	M	M		
Petroleum or petroleum product spills <u>greater than 500 barrels to land</u>	M	M	M	M
Any incident that attracts international or broad USA media coverage	M	M	M	M
Any incident that attracts significant local media coverage	M	M	M	R
Natural disaster, political unrest, civil disturbance, or other situations that threatens safety, health, or welfare of employees or contractors	M	M	M	R
Incidents resulting in the need for employees or public to shelter-in-place or evacuate	M	M	M	R
Release of Produced Gas, Natural Gas, or LPG <u>greater than 500,000 SCF and less than 10 MMSCF or that presents fire/explosion hazard to populated area</u>	M			
Release of Produced Gas, Natural Gas, or LPG greater than 10 MMSCF or that presents fire, explosion hazard to populated area	M	M	M	R
Any release of LNG that is reported to government agencies, or attracts, or is expected to attract media attention, or: involves a vessel incident.	M	M	R	R
Chemical release to land, water, or air greater than 8000 Kg or that threatens human safety or health or adverse impact to environment.	M	M	M	R
Fire, explosion, well blowout or other incident damaging Company and/or third party assets with costs likely to exceed \$500,000 for physical damage, loss of product or production, and incident response	M	M	M	R
Note: kidnapping and ransom				

See CVX Corporate Security Guidelines

Note:

M = Mandatory (Phone call via operating chain preferred for initial notification Details can follow via email or fax)

R = Recommended

20110530Upward Notification Require doc

*SBUs may have requirements that differ for what is reportable to their management

TEXAS STATE APPENDIX**SECTION 2
NOTIFICATIONS****IMMEDIATE NOTIFICATION OF HES INCIDENT INFORMATION FORM**

To be used when Upward Notification by telephonic and e-mail communication methods are either unable to be performed or prove unsuccessful.

Business Unit:		Location:	
Person Making Notification:	Local Date and Time of Notification:	Contact Number:	
Type of Incident: <input type="checkbox"/> Fatality <input type="checkbox"/> Spill/Release <input type="checkbox"/> Injuries <input type="checkbox"/> National/Significant Local News Coverage <input type="checkbox"/> Other Significant HES Incident _____			
Local Date and Time of Incident:			
Description of Incident/Name of Oil Involved/Estimated Volume of Oil Spilled:			
Injuries:			
Actions Taken or Planned:			
Assistance Required:			
Media Attention:			
Other Information, Including Weather Conditions:			
Corp ERS Team Member Taking Report:			

Fax: 1-510-242-3787

E-mail: ceichl@chevron.com

EMERGENCY NOTIFICATION TO MANAGEMENT FAX**EMERGENCY
NOTIFICATION TO
MANAGEMENT FAX**

From:

Chevron Pipe Line Company
4800 Fournace Place
Bellaire, TX 77401

Phone: () -

Fax: (713) 432-3477

Date:

Pages 2

Mr. Al Williams (CPL President)
Mr. George Kirkland (Vice Chairman)
Mr. Pierre Breber (Chevron President)At: (AWilliams@Chevron.com)
(GLKirkland@Chevron.com)
(PBreber@Chevron.com)

CEICHL

(800) 231-0623 (CEICHL)

Remarks: ☐ Urgent ☐ Please Confirm Receipt ☐ Reply ASAP

CPL Emergency Incident Contact is: _____

Phone Number: _____

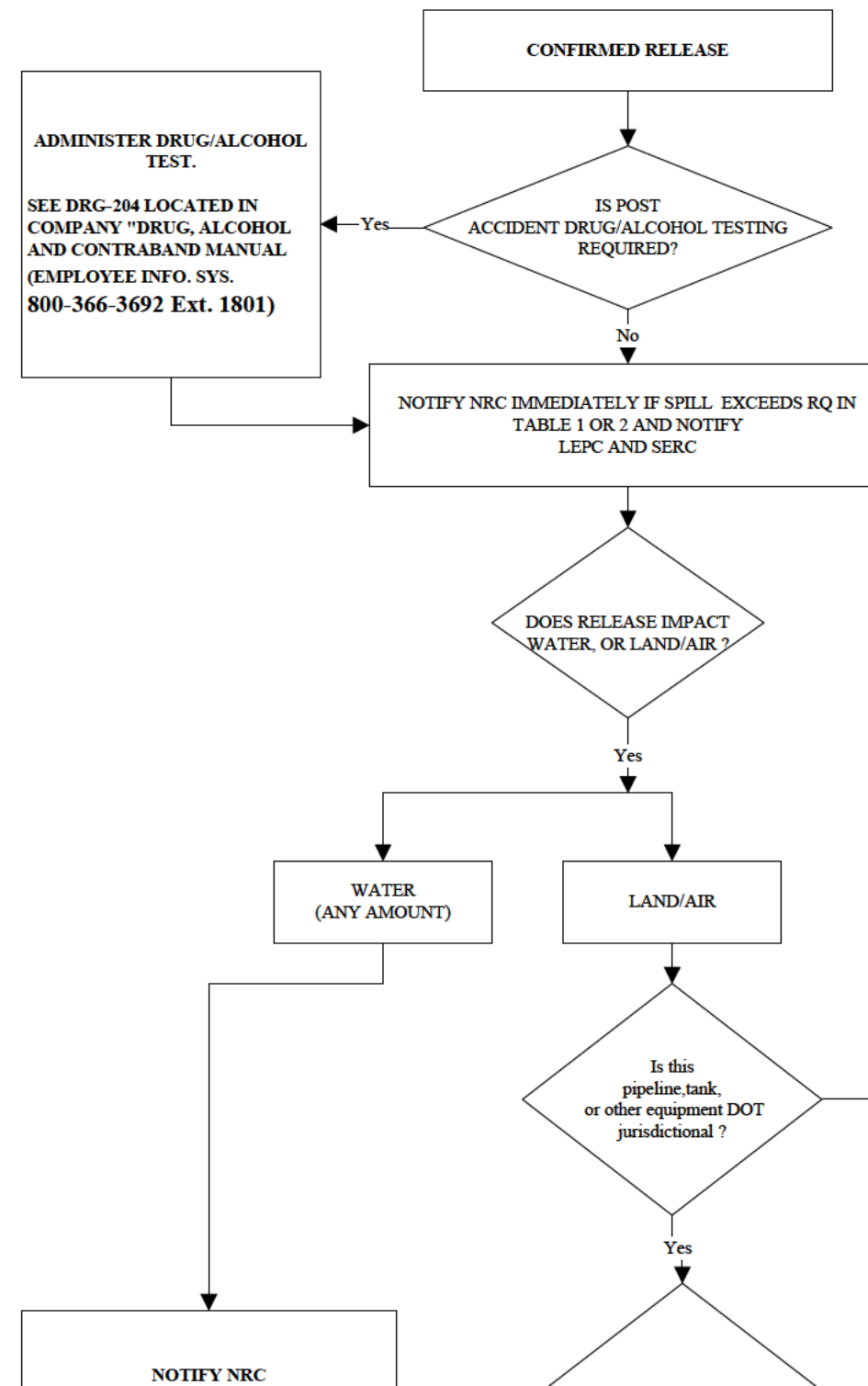
Revised: 06/01/14

TEXAS STATE APPENDIX

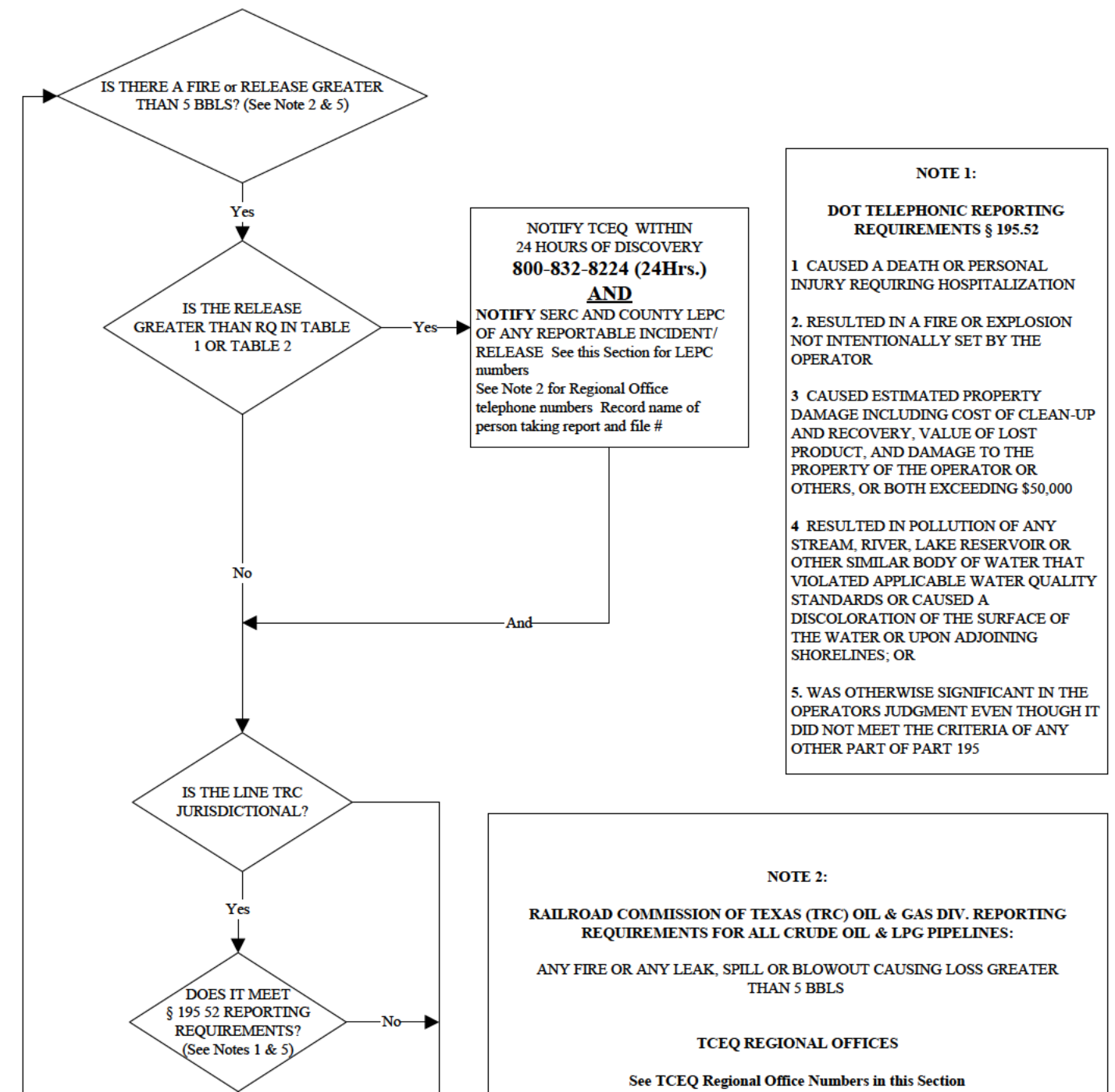
NRC, TELEPHONIC AND WRITTEN REPORTING REQUIREMENTS

TEXAS

NRC



TELEPHONIC



NOTE 1:

DOT TELEPHONIC REPORTING REQUIREMENTS § 195.52

- 1 CAUSED A DEATH OR PERSONAL INJURY REQUIRING HOSPITALIZATION
2. RESULTED IN A FIRE OR EXPLOSION NOT INTENTIONALLY SET BY THE OPERATOR
- 3 CAUSED ESTIMATED PROPERTY DAMAGE INCLUDING COST OF CLEAN-UP AND RECOVERY, VALUE OF LOST PRODUCT, AND DAMAGE TO THE PROPERTY OF THE OPERATOR OR OTHERS, OR BOTH EXCEEDING \$50,000
- 4 RESULTED IN POLLUTION OF ANY STREAM, RIVER, LAKE RESERVOIR OR OTHER SIMILAR BODY OF WATER THAT VIOLATED APPLICABLE WATER QUALITY STANDARDS OR CAUSED A DISCOLORATION OF THE SURFACE OF THE WATER OR UPON ADJOINING SHORELINES; OR
5. WAS OTHERWISE SIGNIFICANT IN THE OPERATORS JUDGMENT EVEN THOUGH IT DID NOT MEET THE CRITERIA OF ANY OTHER PART OF PART 195

NOTE 2:

RAILROAD COMMISSION OF TEXAS (TRC) OIL & GAS DIV. REPORTING REQUIREMENTS FOR ALL CRUDE OIL & LPG PIPELINES:

ANY FIRE OR ANY LEAK, SPILL OR BLOWOUT CAUSING LOSS GREATER THAN 5 BBLS

TCEQ REGIONAL OFFICES

See TCEQ Regional Office Numbers in this Section

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

TEXAS RELEASE NOTIFICATIONS

TEXAS RELEASE NOTIFICATIONS	
State Agencies	
Note: The RQ for spills or discharges directly into water in the state is the quantity sufficient to create a sheen.	
Release to Land/Air/Water (Note: The 24 hour 800-832-8224 number is considered approved notification for GLO, TRC Oil and Gas and TCEQ. Calling this number does not count as approved notification for TRC Office of Pipeline Safety. The Pipeline Safety number is listed below.)	
Texas Railroad Commission (TRC) Oil & Gas Division (Immediately notify for all crude oil, petroleum based products and LPG releases greater than 5 bbls or any fire, leak, spill or blowout causing loss of life) TRC jurisdiction includes all intrastate onshore pipelines as well as intrastate pipelines originating in Texas waters (defined as up to 9 miles offshore). Note: Refer to page 13 of this Section for special reporting for underground storage of gas, liquid and liquefied petroleum gas in salt formations.	(800) 832-8224 24 Hrs (713) 869-5001 8a – 5p
Texas Commission on Environmental Quality (TCEQ) (Notify within 2 hours of discovery if the DOT reporting requirements are met)	(800) 832-8224 24 Hrs
Texas Railroad Commission (TRC) Office of Pipeline Safety (lines jurisdictional to TRC within 2 hours of discovery) TRC jurisdiction includes all intrastate onshore pipelines as well as intrastate pipelines originating in Texas waters (defined as up to 9 miles offshore).	(512) 463-6788
Counties affected: See LEPC pages to follow Notify of any RQ Incident which impacts the public (all air releases are included) and all spills or discharges that enter or threaten to enter water.	
Texas General Land Office (GLO) Notify Texas GLO of any unauthorized discharge of oil that impacts or potentially impacts state waters (up to 9 miles offshore). An unauthorized discharge is a discharge of oil potentially harmful to the environment or public health or presents a danger to public health or welfare. A quantity of oil sufficient to either create a visible film or sheen upon or discoloration of the surface water or a shoreline, tidal flat, beach or marsh or to cause a sludge or emulsion to be deposited beneath the surface of the water or on a shoreline, tidal flat, beach or marsh is reportable.	(800) 832-8224 24 Hrs

DOT SPECIALIST NOTIFICATIONS

DOT Specialist Notifications		
Note: In addition to following the HES Notifications Flowchart and making the required agency notifications above and below, notify the appropriate DOT Specialist when any of the following occurs: Spill, Releases, MVC's involving company operated commercial vehicles and may incident involving an OQ covered task. DOT Specialists geographic area and telephone numbers are listed below:		
Name	Phone #	Area of Responsibility
Randy Burke	281-451-7537	Texas – Shares the responsibility for Colorado, Utah.
Henry Leger	337-654-8915	Louisiana, Mississippi, Alabama as well as the following entities extending into the state of Texas: Chevron Petrochemical Pipeline, LLC & Sabine Pipe Line, LLC.
Garrett Parker	713-598-0613	Shares responsibilities for Utah, and Texas, Louisiana, Mississippi, Alabama as well as the following entities extending into the state of Texas: Chevron Petrochemical Pipeline, LLC & Sabine Pipe Line, LLC.
Gary Saenz	281-450-5523	California – Shares the responsibility for Colorado, Utah.
Jeff Richardson	713-628-6319	California – Shares the responsibility for Colorado, Utah, Texas, and Louisiana.

NATIONAL RESPONSE CENTER (NRC)	
800-424-8802	
Notify the NRC for any release to water. Refer to additional NRC requirements in the NRC Reporting Section of this document.	

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS**BSEE INCIDENT REPORTING (OCS WATERS)**

BSEE INCIDENT REPORTING (OCS WATERS)	
800 424-8802	
Release to Water or Air = / > 3 miles offshore (OCS waters) (within 1 hour)	
BSEE (OCS waters) 800-424-8802 (NRC) Plus BSEE District Offices as needed Mandatory call for any spill = / > 1 barrel to water = / > 3 miles offshore	
Note: Notify BSEE GOMR Pipeline Section if spill is related to OCS pipeline activities Office (504) 736-2814 / Fax (504) 736-2408 / Cell (b) (6) = / < 10 bbls make notification by Fax to BSEE District Office (listings in this Section) > 10 bbls make notification to BSEE GOMR Office by telephone at 504-736-0557 (8 am–5 pm) Notify BSEE if you discover an oil spill whether it's originating from your facility or another offshore facility or if it is a spill of unknown origin which could be expected to equal or exceed 1 bbl.	

BSEE GOMR District Office Contact Information

Office	Mailing Address	Office	Fax	Cell
New Orleans District	990 N. Corporate Drive Suite 100 New Orleans, LA 70123-3392	(504) 734-6740 or (504) 736-6742	(504) 734-6741	(b) (6)
Houma District	3804 Country Drive Post Office Box 760 Bourg, LA 70343-0760	(985) 853-5884	(985) 879-2738	
Lafayette District	201 Energy Parkway Suite 410 Lafayette, LA 70508	(337) 289-5100	(337) 354-0008	
Lake Charles District	620 Esplanade Street Suite 200 Lake Charles, LA 70607-2984	(337) 480-4600	(337) 477-9889	
Lake Jackson District	Oak Park Center 102 Oak Park Drive, Suite 200 Clute, TX 77531	(979) 238-8121	(979) 238-8122	
Pipeline Section	Mail Stop 52321201 Elmwood Park Blvd New Orleans, LA 70123-2394	(504) 736-2814	(504) 736-2408	

TEXAS STATE APPENDIX**SECTION 2
NOTIFICATIONS****GAS PIPELINE RELEASES**

<p>Texas Railroad Commission</p> <p>Although CPL gas pipelines in Texas are interstate pipelines, notify the Texas Railroad Commission of:</p> <p>Accidents involving \$5,000 property damage, a fatality or injuries, gas ignition, or that are judged significant must be reported by telephone within two hours, and the written report filed within thirty (30) days.</p> <p>Per the Railroad Commission, examples of releases that are judged to be significant include but are not limited to a segment of pipeline that becomes out of service due to a release and results in road closure, building closure or evacuation.</p>	<p>(800) 832-8224 24 Hrs</p>
--	----------------------------------

NATIONAL RESPONSE CENTER**National Response Center (NRC)
800-424-8802**

For oil spills, liquid pipeline releases, gas pipeline releases, other releases as defined below:

All Spills

- Any release to water

Liquid Pipeline Releases

At the earliest practicable moment following discovery of a release of the hazardous liquid or carbon dioxide transported resulting in an event described in Sec. 195.50, the operator of the system shall give notice, in accordance with this section, of any failure that:

- Caused a death or a personal injury requiring hospitalization;
- Resulted in either a fire or explosion not intentionally set by the operator;
- Caused estimated property damage, including cost of cleanup and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000;
- Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines; or
- In the judgment of the operator was significant even though it did not meet the criteria of any other paragraph of this section.

Reports made under this paragraph must be made by telephone to the National Response Center at 800-424-8802 or 202-267-2180 and must include the following information:

- Name and address of the operator.
- Name and telephone number of the reporter.
- The location of the failure.
- The time of the failure.
- The fatalities and personal injuries, if any.
- All other significant facts known by the operator that are relevant to the cause of the failure or extent of the damages.

Telephonic Notification to NRC – Continued**Gas Pipeline Releases**

Per DOT, Gas means natural gas, flammable gas, or gas which is toxic or corrosive;

Incident means any of the following events:

- An event that involves a release of gas from a pipeline or of liquefied natural gas, liquefied petroleum gas, refrigerant gas, or gas from an LNG facility and that results in one or more of the following consequences:
 - (i) A death, or personal injury necessitating in-patient hospitalization;
 - (ii) Estimated property damage of \$50,000 or more, of the operator or others, or both, but excluding cost of gas lost;
 - (iii) Unintentional estimated gas loss of three million cubic feet or more;
- (2) An event that results in an emergency shutdown of an LNG facility. Activation of an emergency shutdown system for reasons other than an actual emergency does not constitute an incident.
- (3) An event that is significant, in the judgment of the operator, even though it did not meet the criteria of paragraphs (1) or (2) of this definition.

At the earliest practicable moment following discovery, each operator shall give notice of each incident as defined above.

Each notice shall be made by telephone to 800-424-8802 and shall include the following information:

- Names of operator and person making report and their telephone numbers.
- The location of the incident.
- The time of the incident.
- The number of fatalities and personal injuries, if any.
- All other significant facts that are known by the operator that are relevant to the cause of the incident or extent of the damages.

Chemical Spills to Land or Air

- Chemical release that exceeds the RQ.

REPORTING INFORMATION FOR UNDERGROUND STORAGE OF GAS, LIQUID OR LIQUEFIED HYDROCARBONS IN SALT FORMATIONS

Report any pollution to the Railroad Commission of Texas District Office.

Pollution is defined as an alteration of the physical, chemical, or biological quality of, or the contamination of, water that makes it harmful, detrimental, or injurious to humans, animal life, vegetation, or property, or to public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.

Notification of Emergency or Uncontrolled Release

Each operator shall notify the county sheriff's office, the county emergency management coordinator, and any other appropriate public officials, which are identified in the emergency response plan, of any emergency that could endanger nearby residents or property. Such emergencies include, but are not limited to, an uncontrolled release of hydrocarbons from a storage well, or a leak or fire at any area of the storage facility. The operator shall give notice as soon as practicable following the discovery of the emergency. At the time of the notice, the operator shall report an assessment of the potential threat to the public.

The operator shall report to the appropriate Commission District Office as soon as practicable any emergency, significant loss of fluids, significant mechanical failure, or other problem that increases the potential for an uncontrolled release. The operator shall file with the Commission within 30 days of the incident a written report on the cause of the incident. The operator shall file with the Commission within 90 days of the incident a written report that describes the operational changes, if any, that have been or will be implemented to reduce the likelihood of a recurrence of a similar incident. An operator may request that the Commission grant, for good cause, a reasonable amount of additional time to file a written report on the cause of the incident.

Railroad Commission Oil and Gas Division District Offices

District Number	Location	Phone Number
Districts 01&02	San Antonio, TX	210-227-1313
District 03	Houston, TX	713-869-5001
District 04	Corpus Christi, TX	361-242-3113
District 05&06	Kilgore, TX	903-984-3026
District 7B	Abilene, TX 79603	325-677-3545
District 7C	San Angelo, TX	325-657-7450
District 08&8A	Midland, TX	432-684-5581
District 09	Wichita Falls, TX	940-723-2153
District 10	Pampa, TX	806-665-1653

TEXAS STATE APPENDIX**SECTION 2
NOTIFICATIONS****Other Contact Information**

Notify of any RQ incident or any incident which impacts the public (all air releases are included). See LEPC pages to follow:

1. Your LEPC

(Local Emergency Planning Committee)

See listings to follow.

AND

2. The SERC

(The State Emergency Response Commission), care of: Department of Public Safety, Emergency Response Center **(800) 832-8224** (24 hour number)

For reportable CERCLA chemical spills, also notify:

3. The NRC

(National Response Center)

800-424-8802

4. The TCEQ

(Texas Commission on Environmental Quality Commission)

Pollution Cleanup Division

800-832-8224 (24 hour number)

or

contact the appropriate regional office of TCEQ

Courtesy Calls

Port Arthur US Coast Guard COTP	409-723-6500
Galveston US Coast Guard COTP	409-978-2700
TCEQ Regional Offices	See Following Page

Additional Phone Numbers

Wildlife Rehab & Education Oiled Wildlife Response	Phone 281-332-8319 Pager 713-279-1417 or 281-418-8100
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TEXAS STATE APPENDIX**SECTION 2
NOTIFICATIONS****TCEQ REGIONAL OFFICES**

Region	Location	Phone Number
TCEQ Region 1	Amarillo	806-353-9251
TCEQ Region 2	Lubbock	806-796-7092
TCEQ Region 3	Abilene	325-698-9674
TCEQ Region 4	Dallas / Fort Worth	817-588-5800
TCEQ Region 5	Tyler	903-535-5100
TCEQ Region 6	El Paso	915-834-4949
TCEQ Region 7	Midland	432-570-1359
TCEQ Region 8	San Angelo	325-655-9479
TCEQ Region 9	Waco	254-751-0335
TCEQ Region 10	Beaumont	409-898-3838
TCEQ Region 11	Austin	512-339-2929
TCEQ Region 12	Houston	713-767-3500
TCEQ Region 13	San Antonio	210-490-3096
TCEQ Region 14	Corpus Christi	361-825-3100
TCEQ Region 15	Harlingen	956-425-6010
TCEQ Region 16	Laredo	956-791-6611

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

REPORTABLE QUANTITIES FOR CERCLA

Rev 09/19/06

Table 1 - Reportable Quantities for TX CERCLA

If <u>this</u> Amount is Released:	Of This Product	Reportable Substance Report to TCEQ if substances have been exceeded.	CERCLA RQ
2 Gal (10 lbs)	1,3 Butadiene	1,3 Butadiene	1,3 Butadiene = 10 lbs
1 gallon (10 bls)	Benzene	Benzene	Benzene = 10 lbs
9 bbl (1,977 lbs)	B-B Mix (butane-butylene)	1,3 Butadiene	1,3 Butadiene = 10 lbs
2 Gal (10 lbs)	Butadiene Feedstock	1,3 Butadiene	1,3 Butadiene = 10 lbs
1 gallon (10 lbs)	Chlorine	Chlorine	Chlorine = 10 lbs
154 Gal (1000 lbs)	Cyclohexane	Cyclohexane	Cyclohexane = 1,000 lbs
3 Gal (22 lbs)	Depentanizer Bottoms	Benzene	Benzene = 10 lbs
5.5 bbl (1,660 lbs)	Depentanizer Bottoms	Benzene, & p-xylene	PX = 100 lbs
9 bbl (2,763 lbs)	Depentanizer Bottoms	Benzene, p-xylene, & toluene	Toluene = 1,000 lbs
54 bbl (16,443 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, & m-xylene	MX = 1,000 lbs
66 bbl (19,986 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, & ethylbenzene	EB = 1,000 lbs
154 bbl (35,574 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, & n-hexane	Hexane = 5,000 lbs
162 bbl (49,941 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, n-hexane, & o-xylene	OX = 1,000 lbs
13 bbl (5,000 lbs)	Ethylene glycol	Ethylene glycol	Ethylene glycol = 5,000 lbs
6 bbls (1,827 lbs)	HAD	Xylene	Xylene = 100 lbs
30 bbls (12,033 lbs)	HAD	Xylene & Napthalene	Naphthalene = 100 lbs
32 bbls (9,690 lbs)	HAD	Xylene, Napthalene & Ethylbenzene	EB = 1,000 lbs
2 Gal (14 lbs)	HPG	Benzene	Benzene = 10 lbs
4 bbls (1,218 lbs)	HPG	Benzene & Xylene	Xylene = 100 lbs
13 bbls (3,991 lbs)	HPG	Benzene, Xylene & Toluene	Toluene = 1,000 lbs
40 bbls (12,112 lbs)	HPG	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
1075 bbls (248,325 lbs)	HPG	Benzene, Xylene, Toluene, Ethylbenzene & n-hexane	Hexane = 5,000 lbs
11 gallons (100 lbs)	Diethanol Amine (pure DEA)	Diethanol Amine (DEA)	DEA = 100 lbs
1 bbl (241 lbs)	Isoprene	Isoprene	Isoprene = 100 lbs
2 bbls (439 lbs)	Isoprene	Isoprene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
215 bbls (49,665 lbs)	Isoprene	Isoprene, 1,3 Butadiene & Hexane	Hexane = 5,000 lbs
2 Gal (14 lbs)	Light Blending Aromatic (Pascagoula)	Benzene	Benzene = 10 lbs
3 bbls (913 lbs)	Light Blending Aromatic	Benzene & Xylene	Xylene = 100 lbs
6 bbls (1,842 lbs)	Light Blending Aromatic	Benzene, Xylene, & Toluene	Toluene = 1,000 lbs
65 bbls (19,683 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
430 bbls (99,510 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene, Ethylbenzene, & Hexane	Hexane = 5,000 lbs
18 bbl (5,000 lbs)	Methanol	Methanol	Methanol = 5,000 lbs
6 bbls (1,844 lbs)	Raffinate	Benzene	Benzene = 10 lbs
22 bbls (6,652 lbs)	Raffinate	Benzene & Xylene	Xylene = 100 lbs
109 bbls (33,465 lbs)	Raffinate	Benzene, Xylene, & Toluene	Toluene = 1,000 lbs
215 bbls (49,755 lbs)	Raffinate	Benzene, Xylene, Toluene, & Hexane	Hexane = 5,000 lbs
327 bbls (99,022 lbs)	Raffinate	Benzene, Xylene, Toluene, Hexane & Ethylbenzene	EB = 1,000 lbs
2 Gal (14 lbs)	RPG	Benzene	Benzene = 10 lbs
38 Gal (198 lbs)	RPG	Benzene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
3 bbls (907 lbs)	RPG	Benzene, 1,3 Butadiene & Xylene	Xylene = 100 lbs
4 bbls (954 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene & Isoprene	Isoprene = 100 lbs
33 bbls (9,993 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Isoprene, Toluene, & Ethylbenzene	EB = 1,000 lbs
65 gallons (1,000 lbs)	Sulfuric Acid	Sulfuric Acid	Sulfuric Acid = 1,000 lbs
161 gallons (1,000 lbs)	MTBE	MTBE	MTBE = 1,000 lbs

REPORTABLE QUANTITIES FOR CERCLA – CONTINUED

Under the CERCLA regulations the term hazardous substance does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) (listed above) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). **Texas Table 3 (to follow) still applies.**

For CPL this means the following products are excluded from CERCLA definition of a hazardous substance, LPG and all fractions of (methane, propane, etc.). Natural Gas, Natural Gas Liquids, Refined Products (gasoline, diesel, jet fuel ect.) and Crude Oil.

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

REPORTABLE QUANTITIES FOR TCEQ AIR REGS/LEPC RPTG

Rev 09/19/06	Table 2 = Reportable Quantities for TCEQ Air Regs/LEPC RPTG		
Table 2 RQ's for Texas.xls			
If you are in the following counties use Table 3:			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange or Jefferson			
IF This Amount is Released:	Of This Product	Reportable Quantity Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
2 Gal (10.5 lbs)	1,3 Butadiene	1,3 Butadiene	1,3 Butadiene = 10 lbs
2 Gal (10.5 lbs)	Butadiene Feedstock	1,3 Butadiene	1,3 Butadiene = 10 lbs
34 bbl (7,030 lbs)	Butadiene Feedstock	1,3 Butadiene & butenes	Butenes = 5,000 lbs
37 bbl (7,650 lbs)	Butadiene Feedstock	1,3 Butadiene, butenes & butanes	Butanes = 5,000 lbs
9 bbls (3,969 lbs)	Butane	1,3 Butadiene	1,3 Butadiene = 10 lbs
24 bbls (4,962 lbs)	Butane	1,3 Butadiene and Butane	Butanes = 5,000 lbs
150 bbls (33,138 lbs)	Butane	1,3 Butadiene, Butane & Pentane	Pentane = 5,000 lbs
9 bbl (1,977 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene	1,3 Butadiene = 10 lbs
32 bbl (7,069 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene & butanes	Butanes = 5,000 lbs
44 bbl (9,097 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene, butanes & butenes	Butenes = 5,000 lbs
153 bbl (33,228 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene, butanes, butenes & iso-pentane	Isopentane = 5,000 lbs
175 bbls (51,670 lbs)	Crude Oil (9% volatile)	Crude Oil	Crude Oil
	Benzene (.2% volatile)	Benzene 10#	Benzene = 10 lbs
25 bbls (10,418 lbs)	Sour Crude (H2S 2.3%)	Hydrogen Sulfide	H2S = 100 lbs
3 Gal (22 lbs)	Depentanizer Bottoms	Benzene	Benzene = 10 lbs
5 bbl (1,660 lbs)	Depentanizer Bottoms	Benzene, & p-xylene	PX = 100 lbs
9 bbl (2,763 lbs)	Depentanizer Bottoms	Benzene, p-xylene, & toluene	Toluene = 1,000 lbs
54 bbl (16,443 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, & m-xylene	MX = 1,000 lbs
66 bbl (19,986 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, & ethylbenzene	EB = 1,000 lbs
154 bbl (35,574 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, &	Hexane = 5,000 lbs
162 bbl (49,941 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, n-hexane, & o-xylene	OX = 1,000 lbs
29 bbl (5,152 lbs)	Ethane (Enterprise)	Ethane	Ethane = 5,000 lbs
562 bbl (99,844 lbs)	Ethane (Enterprise)	Ethane & Propane	Propane = 5,000 lbs
43 bbls (7,639 lbs)	Ethane/Propane Mix	Ethane	Ethane = 5,000 lbs
94 bbls (16,700 lbs)	Ethane/Propane Mix	Ethane & Propane	Propane = 5,000 lbs
25 bbls (4,987 lbs)	Ethylene	Ethylene	Ethylene = 5,000 lbs
13 bbl (5,083lbs)	Ethylene glycol	Ethylene glycol	Eth glycol=5,000 lbs
4 bbls (1,229 lbs)	Refined Gasoline	Benzene	Benzene = 10 lbs
84 bbls (18,557 lbs)		Benzene & Pentanes	Pentane = 5,000 lbs
106 bbls (21,917 lbs)	Refined Gasoline	Benzene, Pentanes & Butanes	Butanes = 5,000 lbs
204 bbls (62,118 lbs)		Benzene, Pentanes, Butanes & Xylene	Xylenes = 100 lbs
448 bbls (3,676 lbs)	Refined Gasoline	Benzene, Pentanes, Butanes, Xylene & Hexane	Hexane = 5,000 lbs

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

Table 2 = Reportable Quantities for TCEQ Air Regs/LEPC RPTG			
Rev 09/19/06			
Table 2 RQ's for Texas.xls			
If you are in the following counties use Table 3:			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange or Jefferson			
		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
494 bbls (151,678 lbs)	Refined Gasoline	Benzene, Pentanes, Butanes, Xylene, Hexane & Toluene	Toluene = 1,000 lbs
>8,000 bbls		Benzene, Pentanes, Butanes, Xylene, Hexane, Toluene & Ethylbenzene	EB = 1,000 lbs
6 bbls (1,827 lbs)	HAD	Xylene	Xylene = 100 lbs
30 bbls (12,033 lbs)	HAD	Xylene & Napthalene	Napthalene = 100lbs
32 bbls (9,690 lbs)	HAD	Xylene, Napthalene & Ethylbenzene	EB = 1,000 lbs
1860 bbl (384,584 lbs)	1-Hexene	Butene	Butene = 5,000 lbs
2 Gal (14 lbs)	HPG	Benzene	Benzene = 10 lbs
4 bbls (1,218 lbs)	HPG	Benzene & Xylene	Xylenes = 100 lbs
13 bbls (3,991 lbs)	HPG	Benzene, Xylene & Toluene	Toluene = 1,000 lbs
40 bbls (12,112 lbs)	HPG	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
1075 bbls (248,325 lbs)	HPG	Benzene, Xylene, Toluene, Ethylbenzene & Hexane	Hexane = 5,000 lbs
584 bbls (120,187 lbs)	Isobutane	Butene	Butene = 5,000 lbs
634 bbls (129,678 lbs)	Isobutane	Butene & Butane	Butanes = 5,000 lbs
938 bbls (174,524 lbs)	Isobutane	Butene, Butane, & Propane	Propane = 5,000 lbs
1 bbl (241 lbs)	Isoprene	Isoprene	Isoprene = 100 lbs
2 bbls (439 lbs)	Isoprene	Isoprene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
57 bbls (12,592 lbs)	Isoprene	Isoprene, 1,3 Butadiene, & Pentane	Pentane = 5,000 lbs
215 bbls (49,665 lbs)	Isoprene	Isoprene, 1,3 Butadiene, Pentane & Hexane	Hexane = 5,000 lbs
815 bbls (166,700 lbs)	Isoprene	Isoprene, 1,3 Butadiene, Pentane, Hexane & Butane	Butanes = 5,000 lbs
2 Gal (14 lbs)	Light Blending Aromatic	Benzene	Benzene = 10 lbs
3 bbls (913 lbs)	(Pascagoula)	Benzene & Xylene	Xylenes = 100 lbs
6 bbls (1,842 lbs)	Light Blending Aromatic	Benzene, Xylene, & Toluene	Toluene = 1,000 lbs
65 bbls (19,683 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
430 bbls (99,510 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene, Ethylbenzene, & Hexane	Hexane = 5,000 lbs
110.5 bbls (17,804 lbs)	Raw LPG	Propane	Propane = 5,000 lbs
205 bbls (51,918 lbs)	Naptha	2,2,4 Trimethylpentane	TMP = 1,000 lbs
2 bbls (614 lbs)	Natural Gasoline	Benzene	Benzene = 10 lbs
218 bbls (50,358 lbs)	Natural Gasoline	Benzene & Hexane	Hexane = 5,000 lbs
22 bbls (4,860 lbs)	Pentane	Pentane	Pentane = 5,000 lbs
41 bbls (9,057 lbs)	PP Mix	Propylene	Propylene = 5,000 lbs
85 bbls (15,101 lbs)	PP Mix	Propylene & Propane	Propane = 5,000 lbs
28 bbls (4974 lbs)	Propane	Propane	Propane = 5,000 lbs
27 bbls (4864 lbs)	Propylene	Propylene	Propylene = 5,000
5600 bbls (994,896 lbs)	Propylene	Propylene & Propane	Propane = 5,000 lbs
6 bbls (1,844 lbs)	Raffinate	Benzene	Benzene = 10 lbs
22 bbls (6,652 lbs)	Raffinate	Benzene & Xylene	Xylenes = 100 lbs

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

Rev 09/19/06	Table 2 = Reportable Quantities for TCEQ Air Regs/LEPC RPTG		
Table 2 RQ's for Texas.xls			
If you are in the following counties use Table 3:			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange or Jefferson			
		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
109 bbls (33,465 lbs)	Raffinate	Benzene, Xylene, & Toluene	Toluene = 1,000 lbs
215 bbls (49,755 lbs)	Raffinate	Benzene, Xylene, Toluene, & Hexane	Hexane = 5,000 lbs
327 bbls (99,022 lbs)	Raffinate	Benzene, Xylene, Toluene, Hexane & Ethylbenzene	EB = 1,000 lbs
2 Gal (14 lbs)	RPG	Benzene	Benzene = 10 lbs
38 Gal (198 lbs)	RPG	Benzene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
3 bbls (907 lbs)	RPG	Benzene, 1,3 Butadiene & Xylene	Xylenes = 100 lbs
4 bbls (954 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene & Isoprene	Isoprene = 100 lbs
33 bbls (9,993 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Isoprene	Toluene = 1,000 lbs
		Toluene, & ethylbenzene	EB = 1,000 lbs
1075 bbls (248,776 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Isoprene	Hexane = 5,000 lbs
		Toluene, Ethylbenzene & Hexane	

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONSREPORTABLE QUANTITIES FOR TCEQ AIR REGS/LEPC RPTG
(SELECTED COUNTIES)

Table 3 = Reportable Quantities for TCEQ Air Regs for the following counties			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange and Jefferson			
Rev 09/19/06		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
83,000 Gal (5,000 lbs)	Alkylate	Butane	5,000 lbs
2 Gal (10.5 lbs)	1,3 Butadiene	1,3 Butadiene	1,3 Butadiene = 10 lbs
29 Gal (142 lbs)	1,3 Butadiene	Butenes	Butenes = 100 lbs
2 Gal (10.5 lbs)	Butadiene Feedstock	1,3 Butadiene	1,3 Butadiene = 10 lbs
29 Gal (142 lbs)	Butadiene Feedstock	1,3 Butadiene & butenes	Butenes = 100 lbs
37 bbl (7,650 lbs)	Butadiene Feedstock	1,3 Butadiene, butenes & butanes	Butanes = 5,000 lbs
9 bbls (3,969 lbs)	Butane	1,3 Butadiene	1,3 Butadiene = 10 lbs
24 bbls (4,962 lbs)	Butane	1,3 Butadiene and Butane	Butanes = 5,000 lbs
150 bbls (33,138 lbs)	Butane	1,3 Butadiene, Butane & Pentane	Pentane = 5,000 lbs
3 bbl (635 lbs)	B-B Mix (Butane-Butylene)	Butenes	Butenes = 100 lbs
9 bbl (1,977 lbs)	B-B Mix (Butane-Butylene)	Butenes & 1,3 Butadiene	1,3 Butadiene = 10 lbs
32 bbl (7,069 lbs)	B-B Mix (Butane-Butylene)	Butenes, 1,3 Butadiene & butanes	Butanes = 5,000 lbs
153 bbl (33,228 lbs)	B-B Mix (Butane-Butylene)	1,3 Butadiene, butanes, butenes & iso-pentane	Isopentane = 5,000 lbs
175 bbls (51,670 lbs)	Crude Oil (9% volatile)	Crude Oil, Crude Oil Condensate	Crude Oil
	Benzene (.2% volatile)	Benzene 10#	Benzene = 10 lbs
25 bbls (10,418 lbs)	Sour Crude (H2S 2.3%)	Hydrogen Sulfide	H2S = 100 lbs
3 Gal (22 lbs)	Depentanizer Bottoms	Benzene	Benzene = 10 lbs
39 Gal (284 lbs)	Depentanizer Bottoms	Benzene & toluene	Toluene = 100 lbs
5 bbl (1,660 lbs)	Depentanizer Bottoms	Benzene, toluene & p-xylene	PX = 100 lbs
54 bbl (16,443 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, & m-xylene	MX = 1,000 lbs
66 bbl (19,986 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, & ethylbenzene	EB = 1,000 lbs
154 bbl (35,574 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, & n-hexane	Hexane = 5,000 lbs
162 bbl (49,941 lbs)	Depentanizer Bottoms	Benzene, p-xylene, toluene, m-xylene, ethylbenzene, n-hexane, & o-xylene	OX = 1,000 lbs
1,425 Gal (100 lbs)	Diesel Blend stock	Naphthalene	100 lbs
29 bbl (5,152 lbs)	Ethane (Enterprise)	Ethane	Ethane = 5,000 lbs
562 bbl (99,844 lbs)	Ethane (Enterprise)	Ethane & Propane	Propane = 5,000 lbs
43 bbls (7,639 lbs)	Ethane/Propane Mix	Ethane	Ethane = 5,000 lbs
94 bbls (16,700 lbs)	Ethane/Propane Mix	Ethane & Propane	Propane = 5,000 lbs
21 gal (99 lbs)	Ethylene	Ethylene	Ethylene = 100 lbs
13 bbl (5,083 lbs)	Ethylene glycol	Ethylene glycol	Eth glycol = 5,000 lbs
53 Gal (Exceeds Benzene RQ)	FCC Gasoline	Benzene, o-xylene	Benzene = 10 lbs
620 Gal (Exceeds o-xylene RQ)			o-xylene = 1,000 lbs
770 Gal	Jet A/JP – 5 Jet Fuel A Jet Fuel/Jet Blendstock	Petroleum Distillates Benzene	Petr. Dist.'s=5,000 lbs
633 Gal	Light Cycle Oil	Mineral Spirits	5,000 lbs
758 Gal	Methanol	Methanol	5,000 lbs
4 bbls (1,229 lbs)	Refined Gasoline	Benzene	Benzene = 10 lbs

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

Table 3 = Reportable Quantities for TCEQ Air Regs for the following counties			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange and Jefferson			
Rev 09/19/06		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
43 bbl (8,890 lbs)	Refined Gasoline	Benzene, Butenes	Butenes = 100 lbs
49 bbls (15,043 lbs)	Refined Gasoline	Benzene, Butenes & Toluene	Toluene = 100 lbs
84 bbls (18,557 lbs)	Refined Gasoline	Benzene, Butenes, Toluene & Pentanes	Pentane = 5,000 lbs
106 bbls (21,917 lbs)	Refined Gasoline	Benzene, Butenes, Toluene, Pentanes & Butanes	Butanes = 5,000 lbs
204 bbls (62,118 lbs)	Refined Gasoline	Benzene, Butenes, Toluene, Pentanes & Butanes & Xylenes	Xylenes = 100 lbs
448 bbls (103,676 lbs)	Refined Gasoline	Benzene, Butenes, Toluene, Pentanes & Butanes Xylenes & Hexane	Hexane = 5,000 lbs
>8,000 bbls	Refined Gasoline	Benzene, Pentanes, Butanes, Xylene, Hexane, Toluene & Ethylbenzene	EB = 1,000 lbs
6 bbls (1,827 lbs)	HAD	Xylene	Xylene = 100 lbs
30 bbls (12,033 lbs)	HAD	Xylene & Napthalene	Napthalene = 100lbs
32 bbls (9,690 lbs)	HAD	Xylene, Napthalene & Ethylbenzene	EB = 1,000 lbs
37 bbl (7,650 lbs)	1-Hexene	Butene	Butenes = 100 lbs
2 Gal (14 lbs)	HPG	Benzene	Benzene = 10 lbs
55 gal (402 lbs)	HPG	Benzene, & Toluene	Toluene = 100 lbs
4 bbls (1,218 lbs)	HPG	Benzene, Toluene & Xylene	Xylenes = 100 lbs
40 bbls (12,112 lbs)	HPG	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
1075 bbls (248,325 lbs)	HPG	Benzene, Xylene, Toluene, Ethylbenzene & Hexane	Hexane = 5,000 lbs
20 gal (98 lbs)	Isobutane	Butene	Butenes = 100 lbs
18 bbl (3,281 lbs)	Isobutane	Butene, Propylene	Propylene = 100 lbs
634 bbls (129,678 lbs)	Isobutane	Butene, Propylene & Butane	Butanes = 5,000 lbs
938 bbls (174,524 lbs)	Isobutane	Butene, Propylene, Butane, & Propane	Propane = 5,000 lbs
1 bbl (241 lbs)	Isoprene	Isoprene	Isoprene = 100 lbs
2 bbls (439 lbs)	Isoprene	Isoprene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
57 bbls (12,592 lbs)	Isoprene	Isoprene, 1,3 Butadiene, & Pentane	Pentane = 5,000 lbs
215 bbls (49,665 lbs)	Isoprene	Isoprene, 1,3 Butadiene, Pentane & Hexane	Hexane = 5,000 lbs
815 bbls (166,700 lbs)	Isoprene	Isoprene, 1,3 Butadiene, Pentane, Hexane & Butane	Butanes = 5,000 lbs
10 lbs	Leaded paint/sand waste	Lead	Lead = 10 lbs
2 Gal (14 lbs)	Light Blending Aromatic	Benzene	Benzene = 10 lbs
3 bbls (913 lbs)	(Pascagoula)	Benzene & Xylene	Xylenes = 100 lbs
6 bbls (1,842 lbs)	Light Blending Aromatic	Benzene, Xylene, & Toluene	Toluene = 100 lbs
65 bbls (19,683 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene & Ethylbenzene	EB = 1,000 lbs
430 bbls (99,510 lbs)	Light Blending Aromatic	Benzene, Xylene, Toluene, Ethylbenzene, & Hexane	Hexane = 5,000 lbs
110.5 bbls (17,805 lbs)	Raw LPG	Propane	Propane = 5,000 lbs
205 bbls (51,918 lbs)	Naphtha	2,2,4 Trimethylpentane	TMP = 1,000 lbs
2385 MCF	Natural Gas	Mixtures of VOC's excluding methane and ethane	5000 lbs (VOC's)
2 bbls (614 lbs)	Natural Gasoline	Benzene	Benzene = 10 lbs
218 bbls (50,358 lbs)	Natural Gasoline	Benzene & Hexane	Hexane = 5,000 lbs
22 bbls (4,860 lbs)	Pentane	Pentane	Pentane = 5,000 lbs
30 gal (130 lbs)	PP Mix	Propylene	Propylene = 5,000 lbs
85 bbls (15,101 lbs)	PP Mix	Propylene & Propane	Propane = 5,000 lbs

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

Table 3 = Reportable Quantities for TCEQ Air Regs for the following counties			
Montgomery, Liberty, Walker, Harris, Chambers, Fort Bend, Galveston, Brazoria, Hardin, Orange and Jefferson			
Rev 09/19/06		Reportable Quantity	
IF This Amount is Released:	Of This Product	Report to TCEQ and LEPC that the RQ of this (these) substance(s) has been exceeded:	TCEQ RQ
814 bbl (166,495 lbs)	PP Mix	Propylene, Propane, & Butane	Butane = 5,000 lbs
28 bbls (4974 lbs)	Propane	Propane	Propane = 5,000 lbs
23 gallons (98 lbs)	Propylene	Propylene	Propylene = 100 lbs
5600 bbls (994,896 lbs)	Propylene	Propylene & Propane	Propane = 5,000 lbs
6 bbls (1,844 lbs)	Raffinate	Benzene	Benzene = 10 lbs
11 bbls (3,377 lbs)	Raffinate	Benzene & Toluene	Toluene = 100 lbs
22 bbls (6,652 lbs)	Raffinate	Benzene, Toluene & Xylene	Xylenes = 100 lbs
215 bbls (49,755 lbs)	Raffinate	Benzene, Xylene, Toluene, & Hexane	Hexane = 5,000 lbs
327 bbls (99,022 lbs)	Raffinate	Benzene, Xylene, Toluene, Hexane & Ethylbenzene	EB = 1,000 lbs
149 Gal (1,000 lbs)	Recovered Oil	Recovered Oil	1,000 lbs
5 Gal (10 lbs)	Reformate Naptha	Benzene	Benzene = 10 lbs
45 Gal (100 lbs)	Reformate Naptha	Toluene	Toluene = 100 lbs
276 Gal (100 lbs)	Reformate Naptha	p-xylene	p-xylene = 100 lbs
685 Gal (1,000 lbs)	Reformate Naptha	m-xylene	m-xylene = 1,000 lbs
2 Gal (14 lbs)	RPG	Benzene	Benzene = 10 lbs
38 Gal (198 lbs)	RPG	Benzene & 1,3 Butadiene	1,3 Butadiene = 10 lbs
3 bbls (907 lbs)	RPG	Benzene, 1,3 Butadiene & Toluene	Toluene = 100 lbs
3 bbls (921 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Toluene, EB	Xylene = 100 lbs
4 bbls (954 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene & Isoprene	Isoprene = 100 lbs
		Toluene, & Ethylbenzene	EB = 1,000 lbs
1075 bbls (248,776 lbs)	RPG	Benzene, 1,3 Butadiene, Xylene, Isoprene Toluene, Ethylbenzene & Hexane	Hexane = 5,000 lbs
735 Gal (5,000 lbs)	140 Solvent 6613 (includes the following: Mics. Solvents Naptha Based/Hydrocarbon Solvent Mineral Spirits 66/3 Mineral Spirits 75 Reg. Mineral Spirits Rubber Solvent Solvent G Hydrocarbon Solvents	Mineral Spirits	Mineral Spirits = 5,000 lbs
14 Gal (100 lbs)	Toluene	Toluene	100 lbs
14 Gal (100 lbs)	Toluene/Xylene Mix	Toluene/Xylene Mix	100 lbs
14 Gal (100 lbs)	Xylene	Xylene	100 lbs

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

TEXAS LOCAL EMERGENCY PLANNING COMMITTEES (LEPC)

Texas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Facilities which file the Texas Tier Two Report with the Texas Department of State Health Services, Tier II Chemical Reporting Program are also required to submit this Report to the local fire department having jurisdiction over the reporting facility and to the Local Emergency Planning Committee (LEPC) for the county or area in which the reporting facility is located (see below for LEPC listings by County/Area). Remember: your LEPC's are volunteer organizations and need your support!

Anderson County
The Hon. Linda Bostic Ray
703 N. Mallard
Palestine 75801
LEPC Phone: 903-723-7812
Spill Phone: 911
E-Mail: swells@co.anderson.tx.us

Andrews County
The Hon. Richard H. Dolgener
201 N. Main, Rm. 104
Andrews 79714
LEPC Phone: 432-524-1401
Spill Phone: 911
E-Mail: rdolgener@co.andrews.tx.us

Angelina County
Hon. Wes Suiter
P. O. Box 908
Lufkin 75902-0908
LEPC Phone: 936-634-5413
Spill Phone: 911
E-Mail: wsuiter@angelinacounty.net

Aransas County-Electronic via Email
Coastal Plain LEPC
Mr. Rick McLester
301 North Live Oak
Rockport 78382
LEPC Phone: 361-790-0108
Spill Phone: 911
E-Mail: macypepper@hotmail.com

Archer County
Mr. Curtis Nelson
P. O. Box 367
Archer City 76351-0367
LEPC Phone: 940-574-4545
Spill Phone: 911
E-Mail: fmarshalemc@cityofactx.org

Armstrong County
The Hon. Hugh Reed
P. O. Drawer 189
Claude 79019-0189
LEPC Phone: 806-226-3221
Spill Phone: 911
E-Mail: armstrem@hotmail.com

Atascosa County
Mr. Chuck Garis
711 Oak Broadway
Jourdanton 78026
LEPC Phone: 830-769-2029
Spill Phone: 911
E-Mail: emc-fm@karnesec.net

Austin County
Mr. Ray Chislett
One East Main Street
Belville 77418
LEPC Phone: 979-865-5911
Spill Phone: 911
E-Mail: emqt@austincounty.com

Bailey County
The Hon. Sherri Harrison
300 S. First St.
Muleshoe 79347
LEPC Phone: 806-272-3077
Spill Phone: 911
E-Mail: NA

Bandera County Electronic via Email
Ms. Carey Reed
P. O. Box 2485
Bandera 78003
LEPC Phone: 830-796-8343
Spill Phone: 911
E-Mail: banderaeoc@indian-creek.net

Bastrop County
The Hon. Ronnie McDonald
804 Pecan St.
Bastrop 78602
LEPC Phone: 512-332-7201
Spill Phone: 911
E-Mail: gayle.wilhelm@co.bastrop.tx.us

Baylor County
Mr. Tommy Duncan
102 W. California
Seymour 76380
LEPC Phone: 940-889-8888
Spill Phone: 911
E-Mail: NA

Bee County - Electronic via Email
Mr. David Morgan
111 S. St. Mary's St., Ste. 201
Beeville 78102
LEPC Phone: 361-362-3271
Spill Phone: 911
E-Mail: david.morgan@co.bee.tx.us

Bell County-Electronic via Email only
Mr. Dennis Baker
708 W. Avenue O
Belton 76513-4120
LEPC Phone: 254-933-5587
Spill Phone: 911
E-Mail: hhall@bcc911.com

Bexar County Email Only
Mr. Charles Metzger
Bexar County WMD/HazMat Coord.
P. O. Box 35488
Brooks City Base, TX 78235-0488
LEPC Phone: 210-206-8532
Spill Phone: 911
E-Mail: Charles.Metzger@sanantonio.gov
Tier2Submit@sanantonio.gov
Please use Tier 2 email above for data files to Bexar Co. LEPC

Blanco County
Mr. Bill Guthrie
P. O. Box 387
Johnson City 78636
LEPC Phone: 830-868-4266
Spill Phone: 911
E-Mail: bguthrie@moment.net

Borden County
The Hon. Van L. York
P. O. Box 156
Gail 79738
LEPC Phone: 806-756-4391
Spill Phone: 911
E-Mail: bordenci@poka.com

Bosque County
Mr. Dewey Ratliff
P. O. Box 647
Meridian 76665
LEPC Phone: 254-435-2807
Spill Phone: 911
E-Mail: bosqueemc@htcomp.net

Bowie County
Ms. Cindy White
P. O. Box 1967
Texarkana 75501
LEPC Phone: 903-798-3101
Spill Phone: 903-798-3042
E-Mail: cwhite@txkusa.org

Brazoria County
Mr. Steve Rosa
111 E. Locust St., Room 102
Angleton 77515
LEPC Phone: 979-864-1201
Spill Phone: 911
E-Mail: steverosa@brazoria-county.com

Brazos County-Electronic via Email
Mr. Rodney Mayerhoff
110 N. Main St., Ste. 100
Bryan 77803
LEPC Phone: 979-393-9913
Spill Phone: 911
E-Mail: mmeade@co.brazos.tx.us

Brewster County
Mr. Tom Santry
Brewster Co. EMC
107 W. Avenue E, #15
Alpine 79830
LEPC Phone: 432-294-0205
Spill Phone: 911
E-Mail: brewsteremc@overland.net

Briscoe County
The Hon. Wayne Nance
P. O. Box 153
Silverton 79257
LEPC Phone: 806-823-2131
Spill Phone: 911
E-Mail: bciudge@midplains.coop

Brooks County
Mr. Gonzalo Benavides
P. O. Box 515
Fairfuries 78355
LEPC Phone: 361-675-0783
Spill Phone: 911
E-Mail: gonzalo.benavides@brooks-county.com

Brown County
The Hon. E. Ray West, III
200 S. Broadway
Brownwood 76801
LEPC Phone: 325-643-2828
Spill Phone: 911
E-Mail: graywest@hotmail.com

Burleson County (Electronic Only)
Mr. David Bagley
100 West Buck, Suite 205
Caldwell 77836
LEPC Phone: 979-567-2008
Spill Phone: 979-268-1601
E-Mail: emc@burlesoncounty.org

Burnet County
Ms. Nancy Collins
220 S. Pierce
Burnet 78611
LEPC Phone: 512-756-5420
Fax: 512-715-5291
Spill Phone: 911
E-Mail: NA

Caldwell County
Mr. Jim Parker
1400 FM 20 East, Suite E
Lockhart 78644
LEPC Phone: 512-398-1822
Spill Phone: 911
E-Mail: ccemc@austin.rr.com
Web: www.ccfiremarshal.org

Calhoun County
Mr. Mark Daigle
211 S. Ann, Rm. 304
Port Lavaca 77979
LEPC Phone: 361-553-4400
Spill Phone: 361-553-4646
E-Mail: emermt@tisd.net

Callahan County
The Hon. Roger Corn
100 W. 4th, Ste. 200
Baird 79504
LEPC Phone: 325-854-1155
Spill Phone: 911
E-Mail: roger.corn@callahancounty.org

Cameron County
Mr. David Hanawa
1100 East Monroe
Brownsville 78520
LEPC Phone: 956-365-4252
Spill Phone: 956-535-9110 (after hours)
E-Mail: ghanawa@chemicalresponse.com

Camp County
Mr. David Abernathy
P. O. Box 992
Pittsburg 75686
LEPC Phone: 903-856-2097
Spill Phone: 903-856-6651
E-Mail: dabernathy@tfs.tamu.edu

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill. Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONSTexas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010**Carson County Email**

The Hon. Lewis W. Powers
P. O. Box 369
Panhandle 79068
LEPC Phone: 806-537-3622
Spill Phone: 911
E-Mail: carsonem@amaonline.com

Cass County

The Hon. Charles McMichael
P. O. Box 825
Linden 75563
LEPC Phone: 903-756-5181
Spill Phone: 911
E-Mail: casscojudget@casscountytexas.org

Castro County

Mr. Randy Griffith
100 E. Bedford St., Rm. 111
Dimmitt 79027
LEPC Phone: 806-647-4451
Fax: 806-647-4403
Spill Phone: 911
E-Mail: wfscojudget@castrocountytexas.org

Chambers County

Mr. Ryan Holzaepfel
P. O. Box 957
Anahuac 77514
LEPC Phone: 409-267-8343
Spill Phone: 911
E-Mail: rholzaepfel@co.chambers.tx.us

Cherokee County

The Hon. Chris Davis
502 N. Main
Rusk 75785
LEPC Phone: 903-683-2324
Spill Phone: 911
E-Mail: cojudget@cocherokee.org

Childress County

The Hon. Jay Mayden
100 Ave E NW, Box 1
Childress 79201
LEPC Phone: 940-937-2221
Spill Phone: 911
E-Mail: childresscojudget@childresstexas.net

Clay County

Mr. Kent Neville
100 N. Bridge St.
Henrietta 76365
LEPC Phone: 940-538-4052
Spill Phone: 911
E-Mail: ccemergencymgmt@claycountytexas.com
Web: www.co.clay.tx.us/ips.cms

Cochran County

Mr. Raymond Weber
100 N. Main, Rm. B7
Morton 79346
LEPC Phone: 806-266-5211
Spill Phone: 911
E-Mail: cochranso@door.net

Coke County - Electronic via Email

The Hon. Roy Blair
13 E. 7th St.
Robert Lee 76945
LEPC Phone: 325-453-2641
Spill Phone: 911
E-Mail: cokecounty911@hotmail.com

Coleman County

Mr. Jimmie Hobbs
100 Live Oak, #102
Coleman 76834
LEPC Phone: 325-625-3506
Spill Phone: 911
E-Mail: NA

Collin County

Mr. Steve Deffibaugh
825 N. McDonald, Ste. 140
McKinney 75069
LEPC Phone: 972-548-5576
Spill Phone: 911
E-Mail: sdeffibaugh@co.collin.tx.us

Collingsworth County

The Hon. John James
Co. Courthouse, 2nd Floor, Rm. 1
Wellington 79095
LEPC Phone: 806-447-5408
Spill Phone: 911
E-Mail: jjames@co.collingsworth.tx.us

Colorado County

Mr. Charles Rogers
305 Radio Lane, #103
Columbus 78934
LEPC Phone: 979-733-0184
Spill Phone: 911
E-Mail: cctxoem@co.colorado.tx.us

Comal County

Ms. Carol Edgett
199 Main Plaza
New Braunfels 78130
LEPC Phone: 830-608-8656
Spill Phone: 911
E-Mail: cctcie@co.comal.tx.us

Comanche County

Mr. Ray Helberg
101 West Central
Comanche 76442
LEPC Phone: 254-893-4352
Spill Phone: 911
E-Mail: raygun@cctc.net

Concho County

The Hon. Allen Amos
P. O. Box 158
Paint Rock 76866
LEPC Phone: 325-732-4321
Spill Phone: 911
E-Mail: conchojudget@yahoo.com

Cooke County

Mr. Ray Fletcher
100 S. Dixon, B10
Gainesville 76240
LEPC Phone: 940-668-5400
Spill Phone: 911
E-Mail: ray.fletcher@co.cooke.tx.us

Coryell County

Mr. Phil Yarborough
3945 W. US 84
Gatesville 76528
LEPC Phone: 254-223-4123
Spill Phone: 911
E-Mail: pyarbro@hughes.net

Cottle County

The Hon. D.N. Gregory Jr.
P. O. Box 729
Paducah 79248
LEPC Phone: 806-492-3613
Spill Phone: 911
E-Mail: NA

Crane County

Mr. Roy McGaa
115 West 6th Street
Crane 79731
LEPC Phone: 432-558-2212
Spill Phone: 911
E-Mail: rmcgaa@yahoo.com

Crockett County

Mr. Steve Kenley
903 Avenue D
Ozona 76943
LEPC Phone: 325-392-2661
Spill Phone: 911
E-Mail: crockettfm@aol.com

Crosby

Mr. Davy Abell
201 W. Aspen, Ste. 208
Crosbyton 79322
LEPC Phone: 806-675-2011
Spill Phone: 911
E-Mail: ccjudget@speednet.com

Culberson County

Mr. Russell Wyatt
P. O. Box 754
Van Horn 79855
LEPC Phone: 432-284-0616
Spill Phone: 911
E-Mail: rcwir94862002@yahoo.com

Dallam & Hartley County

Mr. Curtis Brown
110 Denrock
Dalhart 79022
LEPC Phone: 806-244-5454
Spill Phone: 911
E-Mail: dalhartfd@hotmail.com

Dallas County - Electronic via Email

Mr. Rodrick Jones
Dallas County LEPC
509 Main St., Ste. 305
Dallas 75202
LEPC Phone: 214-653-7980
Spill Phone: LEPC No. or 911
E-Mail: Rodrick.Jones@dallascounty.org

Dawson County

Mr. Wayne Smith
805 N. 23rd
Lamesa 79331
LEPC Phone: 806-872-3909
Spill Phone: 911
E-Mail: wcsmith@pics.net

De Witt County

Mr. Jolly Badgett
307 N. Gonzales St.
Cuero 77954
LEPC Phone: 361-275-3642
Spill Phone: 911
E-Mail: dewittcoemc@nodial.net

Deaf Smith County

Mr. Dean Turney
215 N Miles Ave.
Hereford 79045
LEPC Phone: 806-363-7114
Spill Phone: 911
E-Mail: hfd@go-herd.com

Delta County

Mr. Harold Watkins
200 W. Bonham Street
Cooper 75432
LEPC Phone: 903-395-2146
Spill Phone: 911
E-Mail: dcs@coyote.com

Denton County - Electronic via Email

Mr. Jody Gonzalez
9060 Teasley Lane
Denton 76210
LEPC Phone: 940-349-2840
Spill Phone: 940-898-5600
E-Mail: lepc@dentoncounty.com

Dickens County

Mr. Jimmie Land
P. O. Box 59
Dickens 79229
LEPC Phone: 806-623-5533
Spill Phone: 911
E-Mail:

Dimmit County

Mr. Jose Luis Rodriguez
P. O. Box 329
Carrizo Springs 78834
LEPC Phone: 830-876-5720
Spill Phone: 911
E-Mail: mrcitycs@the-i.net

Donley County

The Hon. Jack Hall
P. O. Box 909
Clarendon 79226
LEPC Phone: 806-874-3625
Spill Phone: 911
E-Mail: countyjudge@donleytx.com

Duval County

Mr. Ashley Barrera
P. O. Box 1071
San Diego 78384
LEPC Phone: 361-279-6214
Spill Phone: 911
E-Mail: NA

Eastland County-Electronic via Email

The Honorable Rex Fields
Eastland County Judge's Office
100 W. Main St., Ste. 203
Eastland 76448
LEPC Phone: 254-629-1263
Spill Phone: 911
E-Mail: ecjudget@eastlandcountytexas.com

Ector County

Mr. Rick Dietz
P. O. Box 1312
Odessa 79760
LEPC Phone: 432-335-4654
Spill Phone: 911
E-Mail: ldrake@ci.odessa.tx.us

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill.
Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONSTexas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010**Edwards County**

The Hon. Nick Gallegos
P. O. Box 348
Rocksprings 78880
LEPC Phone: 830-683-6122 /
830-683-4104
Spill Phone: 911
E-Mail: judge@swtexas.net

El Paso County – Elec. via Email

Chief Robert Arvizo
6800 Delta Drive
El Paso 79905
LEPC Phone: 915-775-7320
Spill Phone: 911
E-Mail: epfdtier2@elpasotexas.gov

Ellis County

Mr. John D. Patterson
101 West Main Street
Waxahachie 75165-7834
LEPC Phone: 972-923-5220
Spill Phone: 911
E-Mail: john.patterson@co.ellis.tx.us

Erath County

Mr. John Wooley
100 W. Washington St.
Stephenville 76401
LEPC Phone: 254-965-1452
Spill Phone: 911
E-Mail: countyjudge@htcomp.net

Falls County

The Hon. Judge Thomas Sehon
P. O. Box 458
Marlin 76661
LEPC Phone: 254-883-1426
Spill Phone: 911
E-Mail: tbsehon@aol.com

Fannin County

Mr. Darrell Brewer
210 South Main
Bonham TX 75416
LEPC Phone: 903-640-8484
Spill Phone: 911
E-Mail: fcmcm@cablene.net

Fayette County

Mr. Daniel Zitterich
255B N. Franklin
La Grange 78945
LEPC Phone: 979-966-0906
Spill Phone: 911
E-Mail: faycoemc@cmaaccess.com

Fisher County

The Hon. Marshal Bennett
P. O. Box 306
Roby 79543
LEPC Phone: 325-776-2151
Spill Phone: 911
E-Mail: fishercoljudge@fishernet.org

Floyd County

Mr. Carroll Sims
114 W. Virginia St.
Floydada 79235
LEPC Phone: 806-983-2834
Spill Phone: 911
E-Mail: brewc15@aol.com

Foard County

Mr. Mike Brown
P. O. Box 205
Crowell 79227
LEPC Phone: 940-684-1501
Spill Phone: 911
E-Mail: deputyd2001@yahoo.com

Fort Bend County

Mr. Raymond Engelhardt
307 Fort Street
Richmond 77469
LEPC Phone: 713-898-9760
Spill Phone: 911
E-Mail: raymond.engelhardt@nrgenergy.com

Franklin County

Mr. Gerry Allen
208 State Hwy 37
Mt. Vernon 75457
LEPC Phone: 903-537-4539
Spill Phone: 911
E-Mail: gallen@co.franklin.tx.us

Freestone County

Mr. Don Anderson
Drawer 47
Fairfield 75840
LEPC Phone: 903-389-3236
Spill Phone: 911
E-Mail: sheriff-freestone@glade.net

Frio County

Mr. William H. Woodward
500 E. San Antonio St., #5
Pearsall 78061-3145
LEPC Phone: 830-334-3201/
210-415-5588
Spill Phone: 911
E-Mail: bwoodward@ci.alamo-heights.tx.us

Gaines County

The Hon. Tom Keyes
P. O. Box 847
Seminole 79360
LEPC Phone: 432-758-5411
Spill Phone: 911
E-Mail: tom.keyes@co.gaines.tx.us

Galveston County

Mr. Terry Byrd
1353 FM 646, Suite 302
Dickinson 77539-9339
LEPC Phone: 281-534-8442
Spill Phone: 911
E-Mail: connie.nicholson@co.galveston.tx.us

Garza County

Mr. Michael Isbell
300 W. Main St.
Post 79356
LEPC Phone: 806-495-4405/495-1913
Spill Phone: 911
E-Mail: misbellgarzamc@yahoo.com

Gillespie County

The Hon. Mark Stroeher
101 West Main, Unit 9
Fredericksburg 78624
LEPC Phone: 830-997-7502
Spill Phone: 911
E-Mail: NA

Glasscock County

The Hon. Wilburn Bednar
P. O. Box 67
Garden City 79739
LEPC Phone: 432-354-2382
Spill Phone: 911
E-Mail: wilburn.bednar@co.glasscock.tx.us

Goliad County

The Hon. Harold Gleinser
P. O. Box 677
Goliad 77963
LEPC Phone: 361-645-3337
Spill Phone: 911
E-Mail: hgleinser@goliad.net

Gonzales County

Judge David Bird
414 St. Joseph St., Ste. 200
Gonzales 78629
LEPC Phone: 830-672-2327
Spill Phone: 911
E-Mail: countycourt@qvec.net

Gray County

Mr. Kenneth E. Hall
P. O. Box 2499
Pampa 79066-2499
LEPC Phone: 806-669-5820
Spill Phone: 911
E-Mail: pep@pampa.com

Grayson County

Mr. Jessie Liles
100 W. Houston, Ste. G-2
Sherman 75090
LEPC Phone: 903-813-4253
Spill Phone: 911
E-Mail: burnetta@co.grayson.tx.us

Gregg County

Mr. Fred Salyer
101 E. Methvin, Suite 559
Longview 75601
LEPC Phone: 903-234-3144
Spill Phone: 911
E-Mail: fred.salyer@co.gregg.tx.us

Grimes County

The Hon. Betty Shiflett
P. O. Box 160
Anderson 77830
LEPC Phone: 936-873-3135
Spill Phone: 911
E-Mail: betty.shiflett@co.grimes.tx.us

Guadalupe County

Mr. Daniel Kinsey
415 E. Donegan
Seguin 78155
LEPC Phone: 830-303-4188 ext. 230
Spill Phone: 911
E-Mail: dkinsey@co.quadalupe.tx.us

Hale County

Mr. Marvin Sistrunk
111 W. 6th St.
Plainview 79072
LEPC Phone: 806-291-5284
Spill Phone: 911
E-Mail: sistrunk@halecounty.org

Hall County

Mr. Jack Martin
512 W. Main, Ste. 4
Memphis 79245
LEPC Phone: 806-259-2511
Spill Phone: 911
E-Mail: ghall@amaonline.com

Hamilton County

Mr. Randy Mills
Hamilton County Courthouse
102 N. Rice
Hamilton 76531
LEPC Phone: 254-386-3815
Spill Phone: 911
E-Mail: NA

Hansford County

The Hon. Benny D. Wilson
16 NW Court Street
Spearman 79081-2052
LEPC Phone: 806-659-4100
Spill Phone: 911
E-Mail: hansfordco@hotmail.com

Hardeman County

The Hon. Ronald Ingram
P. O. Box 30
Quanah 79252
LEPC Phone: 940-663-2911
Spill Phone: 911
E-Mail: judge@srcaccess.net

Hardin County

Mr. Dennis Gifford
300 Monroe St.
Kountze 77625
LEPC Phone: 409-246-5119
Spill Phone: 911
E-Mail: joe.blackmon@co.hardin.tx.us

Harris-Bay Area

(combined with Harris-Bay Area to form
Southeast Regional LEPC;
see Harris-Southeast Regional LEPC)

Harris-Baytown

Ms. Misty Lowe
205 E. Wye Dr.
Baytown 77521
LEPC Phone: 281-420-6556
Spill Phone: 911
E-Mail: misty.lowe@baytown.org
Web: www.baytownlepc.org

Harris-Bellaire - Electronic via Email

Chief Darryl Anderson
7008 S. Rice Ave.
Bellaire 77401
LEPC Phone: 713-662-8201
Spill Phone: 911
E-Mail: danderson@ci.bellaire.tx.us
Web: <http://tx-bellaire.civicplus.com>

Harris-Deer Park – Hard Copies

Ms. Sandra Watkins
P. O. Box 700
Deer Park 77536
LEPC Phone: 281-478-7248
Spill Phone: 281-479-1511
E-Mail: mailbox@deerparklepc.org /
skwatkins@deerparktx.org
Web: www.deerparklepc.org

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill.
Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONSTexas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Harris-Galena Park
Mr. Rick Bates
2207 Clinton Drive
Galena Park 77547
LEPC Phone: 713-675-3471
Spill Phone: 713-675-3471
E-Mail: gppd@houston.rr.com

Harris-Houston (City Limits)
Mr. Nick J. Guillen
P.O. Box 10817
Houston 77206-0817
LEPC Phone: 713-884-4227
Spill Phone: 713-884-4227
E-Mail: nicholas.guillen@cityofhouston.net
Web: www.houstontx.gov/fire/divisions/lepc.html

Harris-Humble – Electronic via Email
Mr. Clint Johnson
110 W. Main St.
Humble 77338
LEPC Phone: 281-446-4928
Spill Phone: 911
E-Mail: cchambers@humblepolice.com
Web: www.cityofhumble.net

Harris-Jacinto City
Mr. Lon Squyers
1301 Mercury
Jacinto City 77029
LEPC Phone: 713-674-8424
Spill Phone: 713-674-8424
E-Mail: jchief@pdg.net

Harris-Jersey Village
Ms. Kathy Hutchens
16501 Jersey Dr.
Jersey Village 77029
LEPC Phone: 713-466-2131
Spill Phone: 713-466-5824
E-Mail: khutchins@ci-jersey-village.tx.us
Web: www.jvfire.com/

Harris-Katy
Mr. Marc Jordan
1417 Ave. D.
Katy 77493
LEPC Phone: 281-391-4010
Spill Phone: 911
E-Mail: mjordan@katyfire.com

Harris-La Porte –Elec. Via Email
Mr. Jeff Suggs
604 W. Fairmont Pkwy.
La Porte 77571
LEPC Phone: 281-471-3607
Spill Phone: 281-471-2141
E-Mail: enman@laportetx.gov
Web: www.ci.la-porte.tx.us/lepc/LEPC_main.htm

Harris-Memorial Villages
Chief Rick Poirier
901 Corbindale
Houston 77024
LEPC Phone: 713-468-7941
Spill Phone: 911
E-Mail: rep54@swbell.net
Web: www.villagefiredept.com

Harris - North Channel Area
Mr. Lon Squyers
P. O. Box 1847
Channelview 77530
LEPC Phone: 713-455-LEPC(5372)
Spill Phone: 713-881-3100
E-Mail: nclepc.contact@ev1.net
Web: www.nclepc.org

Harris-Pasadena
(combined with Harris-Bay Area to form Southeast Regional LEPC;
see Harris-Southeast Regional LEPC)

Harris-South Houston
Mr. Tommy Savell
P. O. Box 513
Houston 77587
LEPC Phone: NA
Spill Phone: 911
E-Mail: NA

Harris-Southeast Regional LEPC
Mr. Walter Grant, Chairman
P.O. Box 1148
Pasadena 77501
LEPC Phone: 713-475-7088
Spill Phone: 911
E-Mail: Beckychristie2000@yahoo.com
Web: www.serlepc.org

Harris-Tomball
Chief Randy Parr
1200 Rudel
Tomball 77375
LEPC Phone: 281-351-7101
Spill Phone: 911
E-Mail: rparr@ci.tomball.tx.us

Harris-Unincorporated
Mr. George Freda
P. O. Box 12271
Spring 77391
LEPC Phone: 281-320-9105
Spill Phone: 911
E-Mail: georgebf@yahoo.com

Harris-West University
Chief Steve Ralls
3800 University Blvd.
Houston 77005
LEPC Phone: 713-662-5836
Spill Phone: 911
E-Mail: sralls@westu.org

Harrison County-Elec. via Email
Mr. Thomas Mock
2110 Warren Dr.
Marshall 75672
LEPC Phone: 903-935-4870
Spill Phone: 903-923-4000
E-Mail: mockt@co.harrison.tx.us
Tier II Email: debbieg@co.harrison.tx.us

Hartley County
The Hon. Ronnie Gordon
P. O. Box G
Channing 79018
LEPC Phone: 806-235-3442
Spill Phone: 806-235-3442
E-Mail: ronnie.gordon@co.hartley.tx.us

Haskell County
The Hon. David Davis
1 Ave. D
Haskell 79521
LEPC Phone: 940-864-2851
Spill Phone: 940-864-2851
E-Mail: coludge@co.haskell.tx.us

Hays County
Mr. Jeff Turner
102 N. LBJ, Suite 303
San Marcos 78666
LEPC Phone: 512-393-7301
Spill Phone: 911
E-Mail: jeff.turner@co.hays.tx.us

Hemphill County
The Hon. Steve Vandiver
P. O. Box 536
Canadian 79014
LEPC Phone: 806-323-6521
Spill Phone: 911
E-Mail: coludge@yft.net

Henderson County
Ms. Joy Kimbrough, EMC
County Courthouse Annex
101 East Tyler, Rm 311
Athens, TX 75751
LEPC Phone: 903-677-7242
Spill Phone: 911
E-Mail: jimbrough@co.henderson.tx.us

Hidalgo County
Mr. A.A. "Tony" Pena
100 E. Cano, 2nd Floor Judge's Ofc.
Edinburg 78540
LEPC Phone: 956-318-2600
Fax: 956-318-2699
Spill Phone: 911
E-Mail: tony.pena@hidalgocoludge.com

Hill County
Sheriff Jeff Lyon
P. O. Box 283
Hillsboro 76645
LEPC Phone: 254-582-5313
Spill Phone: 254-582-5313
E-Mail: jlyon@co.hill.tx.us

Hockley County
Mr. Tony Cowan
1310 Ave. H
Levelland 79336
LEPC Phone: 806-894-6164
Spill Phone: 806-894-6164
E-Mail: tcowan@levellandtexas.org

Hood County-Electronic via Email
Mr. Brian Fine
201 W. Bridge
Granbury 76048
LEPC Phone: 817-579-3335 /
817-579-3200
Spill Phone: 911
E-Mail: bfine@co.hood.tx.us

Hopkins County
Mr. Carl Nix
1286 Texas St.
Sulphur Springs 75482
LEPC Phone: 903-439-6217 op. 1 /
903-438-4006
Spill Phone: 903-438-4040 op. 1
E-Mail: NA

Houston
Mr. David Lamb
600 Bradshaw
Crockett 75835
LEPC Phone: 936-544-7175
Spill Phone: 911
E-Mail: hcoem@valornet.com

Howard County
Mr. Terry Chamness
400 E. 4th St.
Big Spring 79720
LEPC Phone: 432-264-2561
Spill Phone: 911
E-Mail: tchamness@bigspringpd.net

Hudspeth County
Ms. Patricia Garcia
P. O. Box 68
Sierra Blanca 79851
LEPC Phone: 915-369-2321
Spill Phone: 911
E-Mail: patigarcia76@hotmail.com

Hunt County – Electronic via Email
Mr. Richard Hill
P. O. Box 1097
Greenville 75403-1097
LEPC Phone: 903-408-4246
Spill Phone: 911
E-Mail: rhill@huntcounty.net

Hutchinson County
Ms. Lynda McClellan
P. O. Box 5341
Borger 79008-5341
LEPC Phone: 806-273-0150
Spill Phone: 911
E-Mail: hutchinsonlepc@cableone.net

Irion County
The Hon. Leon Standard
P. O. Box 770
Mertzon 76941
LEPC Phone: 325-835-4361
Spill Phone: 911
E-Mail: leon.standard@co.irion.tx.us
Web: www.co.irion.tx.us

Jack County
Mr. Jeremy Jennings
111 E. Archer
Jacksboro 76458
LEPC Phone: 940-567-2324
Spill Phone: 911
E-Mail: jfdjennings@sbcglobal.net

Jackson County – Hard Copy
Mr. Allan Friedrich
115 W. Main, Room 104
Edna 77957
LEPC Phone: 361-782-3398
Spill Phone: 911
E-Mail: jceoc@co.jackson.tx.us

Jasper County
Mr. Billy Ted Smith
P. O. Box 2030
Buna 77612
LEPC Phone: 409-994-2543
Spill Phone: 911
E-Mail: billysmith@ih2000.net
Web: www.ih2000.net/jasperem

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill.
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TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONSTexas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010**Jeff Davis County**

Mr. Mike Ward
P. O. Box 1063
Fort Davis 79734
LEPC Phone: 432-426-3791
Spill Phone: 911
E-Mail: ward@draco.as.utexas.edu

Jefferson County – Hard Copy

Mr. Greg Fountain
1149 Pearl, 1st Floor
Beaumont 77701
LEPC Phone: 409-835-8757
Spill Phone: 409-835-8411
E-Mail: jclepc@co.jefferson.tx.us

Jim Hogg County

The Hon. Agapito Molina
PO Box 729
Hebronville 78361
LEPC Phone: 361-527-3015
Spill Phone: 911
E-Mail: NA

Jim Wells County

The Hon. Arnoldo Saenz
200 N. Almond
Alice 78332
LEPC Phone: 361-668-5706
Spill Phone: 911
E-Mail: Lasaeenz@thei.net

Johnson County-Elec. via Email

Mr. Gerald Mohr
1800 Ridge Mar
Cleburne 76033
LEPC Phone: 817-556-6346
Spill Phone: 817-648-4033
E-Mail: gmohr@johnsoncountytexas.org
Web: www.johnsoncountytexas.org

Jones County – Elec. via Email

Mr. Buddy Pope
P. O. Box 148
Anson 79501
LEPC Phone: 325-823-2256
Spill Phone: 911
E-Mail: buddy.pope@co.jones.tx.us

Karnes County

ATTN: LEPC Chairperson
200 E. Calvert
Karnes City 78118
911 Coordinator Phone: 830-780-3461
Spill Phone: 911
E-Mail: fleat@sbcglobal.net / sharon.chesser@co.karnes.tx.us

Kaufman County-Elec. via Email

Ms. Kathy Morris
3003 S Washington
Kaufman 75142
LEPC Phone: 469-376-4124
Spill Phone: 911
E-Mail: kmorris@kaufmancounty.net

Kendall County

Mr. Mark Mattick
400 E. Blanco
Boerne 78006
LEPC Phone: 830-249-8645
Spill Phone: 830-249-8645
E-Mail: mmattick@ci.boerne.tx.us
Web: www.ci.boerne.tx.us

Kenedy County-Electronic via Email

Mr. Tomas Sanchez
P. O. Box 10
Sarita 78385
LEPC Phone: 361-294-5205
Spill Phone: 361-294-5205 /
E-Mail: sanchez@interconnect.net

Kent County-Electronic via Email

The Hon. Jim C. White
P. O. Box 6
Jayton 79528
LEPC Phone: 806-237-3373
Spill Phone: 806-237-3801
E-Mail: kencoidg@caprock-spur.com

Kerr County-Electronic via Email

The Hon. Pat Tinley
700 E. Main St.
Kerrville 78028
LEPC Phone: 830-792-2211
Spill Phone: 911
E-Mail: cojudge@co.kerr.tx.us

Kimble County

Mr. Andrew Murr
501 Main St.
Junction 76849
LEPC Phone: 325-446-2724 /
325-446-2766
Spill Phone: 911
E-Mail: andrew.murr@co.kimble.tx.us

King County

The Hon. Duane Daniel
P. O. Box 127
Guthrie 79236
LEPC Phone: 806-596-4411
Spill Phone: 806-596-4413
E-Mail: kciudge@caprock-spur.com

Kinney County

Mr. Chris Keith
P. O. Box 1499
Brackettville 78832
LEPC Phone: 830-563-9090
Spill Phone: 911
E-Mail: NA

Kleberg County-Electronic via Email

Mr. Tomas Sanchez
P. O. Box 1088
Kingsville 78364-1088
LEPC Phone: 361-675-0096
Spill Phone: 361-595-8500
E-Mail: sanchez@interconnect.net

Knox County-Electronic via Email

The Hon. Travis Floyd
P. O. Box 77
Benjamin 79505-0077
LEPC Phone: 940-459-2191
Spill Phone: 911
E-Mail: tfloyd@srcaccess.net

La Salle County

The Hon. Joel Rodriguez, Jr.
P.O. Box 340
Cotulla 78014
LEPC Phone: 830-879-4430
Spill Phone: 830-879-3044 or 3041
E-Mail: NA

Lamar County

Mr. B. J. McCoy
125 Brown Ave.
Paris 75460
LEPC Phone: 903-737-2400
Spill Phone: 903-737-2400
E-Mail: NA

Lamb County-Electronic via Email

Ms. Gina Streety
106th Dr., County Courthouse Rm 109
Littlefield 79339
LEPC Phone: 806-385-4222 /
806-385-3173
Spill Phone: 911
E-Mail: lamb_county_emc@hotmail.com

Lampasas County

Ms. Angela Rainwater
P. O. Box 1730
Lampasas 76550
LEPC Phone: 512-556-4177
Spill Phone: 911
E-Mail:

Lavaca County

Mr. James Myrick
306 S. LaGrange
Hallettsville 77964
LEPC Phone: 361-798-5628
Spill Phone: 361-798-6470
E-Mail: james.myrick@co.lavaca.tx.us

Lee County

Mr. L. E. "Buster" Dussetschleger
P. O. Box 188
Lexington 78947
LEPC Phone: 979-773-2268
Spill Phone: 361-542-2800
E-Mail: leeconstable@reviellbroadband.com

Leon County

Mr. Pat Bell
P. O. Box 808
Centerville 75833
LEPC Phone: 903-536-2331
Spill Phone: 911
E-Mail: patbell@co.leon.tx.us

Liberty County

Hon. Phil Fitzgerald
1923 Sam Houston St., Rm. 201
Liberty 77575
LEPC Phone: 936-336-4665
Spill Phone: 911
E-Mail:

Limestone County-Elec. via Email

Mr. Matt Groveton
200 W. State St., Ste G-17
Groesbeck 76642
LEPC Phone: 254-729-5517
Spill Phone: 911
E-Mail: matt.groveton@co.limestone.tx.us

Lipscomb County

The Hon. Willis Smith
P. O. Box 69
Lipscomb 79056
LEPC Phone: 806-862-4131
Spill Phone: 911/806-862-2611
E-Mail: lipscombcojudge@amaonline.com

Live Oak County

Mr. James Jungman
P. O. Box 487
George West 78022
LEPC Phone: 361-449-1693
Spill Phone: 911
E-Mail: jwenggw@bcni.net

Llano County

Mr. Ronald Moore
100 W. Sandstone St., Suite 200A
Llano 78643
LEPC Phone: 325-247-2039
Spill Phone: 911
E-Mail: ronald.moore@co.llano.tx.us

Loving County

Mr. Royce Creager
P. O. Box 134
Mentone 79754
LEPC Phone: 432-377-2231
Spill Phone: 432-377-2411
E-Mail: creagerbarb@yahoo.com

Lubbock County

The Hon. Tom Head
P.O. Box 10536
Lubbock, TX 79408
LEPC Phone: 806-775-1595
Spill: 806-775-2002
E-mail: thead@co.lubbock.tx.us

Lynn County

The Hon. H. G. Franklin
P. O. Box 1167
Tahoka 79373
LEPC Phone: 806-561-4222
Spill Phone: 911
E-Mail: cojudge@co.lynn.tx.us

Madison County-Electronic via Email

Ms. Shelly Butts
101 W. Main, Rm. 110
Madisonville 77864
LEPC Phone: 936-348-2670
Spill Phone: 911
E-Mail: shelly.butts@madisoncountytexas.org

Marion County

The Hon. Phil Parker
102 W. Austin, Rm. 205
Jefferson 75657
LEPC Phone: 903-665-3261
Spill Phone: 903-665-3271
E-Mail:

Martin County

The Hon. Charles Blocker
P. O. Box 1330
Stanton 79782-1330
LEPC Phone: 432-756-2231
Spill Phone: 911
E-Mail: cblocker@crcom.net

Mason County

The Hon. Jerry Bearden
P. O. Box 1726
Mason 76856
LEPC Phone: 325-347-5556
Spill Phone: 911
E-Mail: masonidg@tstar.net

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TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONSTexas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

Matagorda County
Mr. Bob Watts
2200 7th St., 1st Floor
Bay City 77414
LEPC Phone: 979-245-5526
Spill Phone: 911
E-Mail: bwatts1946@yahoo.com

Maverick County
Chief Rodriguez
2558 El Indio Highway
Eagle Pass 78852
LEPC Phone: 830-757-4231
Spill Phone: 911
E-Mail: jrodriguez@eaglepasstx.us

McCulloch County
The Hon. Danny Neal
199 Courthouse Sq, Rm. 302
Brady 76825
LEPC Phone: 325-597-0733 ext. 4
Spill Phone: 911
E-Mail: judgeal@hotmail.com

McLennan County
The Hon. Jim Lewis
P. O. Box 1728
Waco 76703-1728
LEPC Phone: 254-757-5049
Spill Phone: 911
E-Mail: frankp@ci.waco.tx.us

McMullen County
The Hon. Linda Lee Henry
P. O. Box 237
Tilden 78072
LEPC Phone: 361-274-3341
Spill Phone: 361-274-3311
E-Mail: judge@grandriver.net

Medina County
The Hon. Jim Barden
1100 16th St., Rm. 101
Hondo 78861
LEPC Phone: 830-741-6015
Spill Phone: 911
E-Mail: countyjudge@medinacountytx.us

Menard County
Mr. Jess Whitson
P. O. Box 1038
Menard 76859
LEPC Phone: 325-396-4789
Spill Phone: 911
E-Mail: menardck@verizon.net

Midland County-Elec. via Email
Mr. M. Dale Little
2435 E. Hwy. 80
Midland 79706
LEPC Phone: 432-688-4160
Spill Phone: 911
E-Mail: dale_little@co.midland.tx.us

Milam County
Ms. Susan Reindeers
102 South Fanin, Suite 2
Cameron, TX
LEPC Phone: 254-697-7060
Spill Phone: 911
E-Mail: sreindeers@milamcounty.net

Mills County-Elec. via Email
Mr. Robert Lindsay
P. O. Box 450
Goldthwaite 76844
LEPC Phone: 325-648-3186
Spill Phone: 911
E-Mail: citymgr@centex.net

Mitchell County
Mr. Patrick Toombs
320 Pine St.
Colorado City 79512
LEPC Phone: 325-728-5261
Spill Phone: 911
E-Mail: ptoombs@co.mitchell.tx.us

Montague County-Elec. via Email
The Hon. Ted H. Winn
P.O. Box 475
Montague 76251
LEPC Phone: 940-894-2401
Spill Phone: 911
E-Mail: thwinn@hotmail.com
Tier II Email: kelly@mcnabbseed.com

Montgomery County-Elec. via Email
Nicky Kelly
9472 FM 1484
Conroe 77303
LEPC Phone: 936-523-3901
Spill Phone: 911
E-Mail: nicky.kelly@mctx.org

Moore County-Elec. via Email
Mr. Tommy Brooks
P. O. Box 438
Dumas 79029
LEPC Phone: 806-934-9520
Spill Phone: 911
E-Mail: tbrooks@ci.dumas.tx.us

Morris County-Elec. via Email
Chief Doug Stanley
110 Coffey
Daingerfield 75638
LEPC Phone: 903-645-2114
Spill Phone: 911
E-Mail: dstanley@classicnet.net

Motley County-Elec. via Email
The Hon. Ed D. Smith
P.O. Box 719
Matador 79244
LEPC Phone: 806-347-2334
Spill Phone: 911
E-Mail: esmith@caprock-spur.com

Nacogdoches County
The Hon. Joe English
101 W. Main, Ste. 170
Nacogdoches 75961
LEPC Phone: 936-560-7755
Spill Phone: 911
E-Mail: carol.moon@co.nacogdoches.tx.us

Navarro County-Elec. via Email
Mr. Eric Meyers
P.O. Box 1560
Corisicana 75151
LEPC Phone: 903-872-6571 or
903-654-3396
Spill Phone: 903-654-3001
E-Mail: ermeyers@navarrocountyoem.org

Newton County
The Hon. Truman Dougharty
P. O. Drawer J
Newton 75966
LEPC Phone: 409-379-5691
Spill Phone: 409-379-3636
E-Mail: truman.dougharty@co.newton.tx.us

Nolan County
Mr.
P. O. Box 450
Sweetwater 79556
LEPC Phone: 325-235-4304
Spill Phone: 911
E-Mail:

Nueces County- Elec. via Email
Chief Richard Hooks (LEPC Admin.)
2406 Leopard St., Suite # 200
Corpus Christi 78408
LEPC Phone: 361-826-3960
Spill Phone: 911
E-Mail: marim@cctexas.com

Ochiltree County
The Hon. Earl McKinley
511 S. Main
Perryton 79070
LEPC Phone: 806-435-8031
Spill Phone: 806-435-8000
E-Mail: sbrown@ptsi.net

Oldham County
The Hon. Donnie Allred
P. O. Box 195
Vega 79092
LEPC Phone: 806-267-2607
Spill Phone: 911
E-Mail: dnallred@amaonline.com

Orange County-Electronic via Email
Orange County LEPC
123 S. Sixth St.
Orange 77630
LEPC Phone: 409-882-7895
Spill Phone: 911
E-Mail: ikelley@co.orange.tx.us

Palo Pinto County
Mr. Barry Gill
109 North Oak
Mineral Wells 76067
LEPC Phone: 940-325-5762
Spill Phone: 911
E-Mail: emc-fm@co.palo-pinto.tx.us

Panola County
Mr. Jim Young
110 S. Sycamore, Rm. 108
Carthage 75633
LEPC Phone: 903-693-0360
Spill Phone: 903-693-0333
E-Mail: jim.young@co.panola.tx.us

Parker County
Mr. George Teague
202 West Oak
Weatherford 76086
LEPC Phone: 817-598-4282
Spill Phone: 911
E-Mail: gteague@weatherfordtx.gov

Parmer County
Ms. Donna Mitchell, EMC
P. O. Box 277
Bovina 79009
LEPC Phone: 806-225-7078 or
806-251-1678
Spill Phone: 911
E-Mail: nannyd@yahoo.com

Pecos County
The Hon. Joe Shuster
103 W. Callaghan
Fort Stockton 79735
LEPC Phone: 432-336-2792
Spill Phone: 911
E-Mail: judge@co.pecos.tx.us

Polk County – Electronic via Email
Ms. Courtney Comstock
602 E. Church St., Suite 165
Livingston 77351
LEPC Phone: 936-327-6826
Spill Phone: 911
E-Mail: emcpolk@livingston.net
Tier II E-mail: tiertwo@co.polk.tx.us

**Potter & Randall Cos. & Amarillo-
Electronic via Email**
Mr. Kevin Starbuck, EMC
P. O. Box 1971
Amarillo 79105-1971
LEPC Phone: 806-378-3004
Spill Phone: 911
Tier II E-Mail: lepc@amarillo.gov
OWM Website: oem.amarillo.gov

Presidio County
The Hon. Jerry Agan
P. O. Box 606
Marfa 79843
LEPC Phone: 432-729-4452
Spill Phone: 911
E-Mail: presidiocounty@att.net

Rains County
The Hon. Joe R. Dougherty
P.O. Box 158
Emory 75440
LEPC Phone: 903-473-5000 x 282
Spill Phone: 911
E-Mail: joedougherty@co.rains.tx.us

Randall County-Electronic via Email
Mr. Kevin Starbuck, EMC
P. O. Box 1971
Amarillo 79105-1971
LEPC Phone: 806-378-3004
Spill Phone: 911
Tier II E-Mail: lepc@amarillo.gov
OEM Website: oem.amarillo.gov

Reagan County
The Hon. Larry Isom
P. O. Box 100
Big Lake 76932
LEPC Phone: 325-884-2665
Spill Phone: 325-884-2424
E-Mail: btucker@reagancounty.org

Real County
The Hon. W.B. Sansom
P. O. Box 446
Leakey 78873
LEPC Phone: 830-232-5304
Spill Phone: 911
E-Mail: h Hubbard@co.real.tx.us

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill.
Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONSTexas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010**Red River County-Elec. via Email**

The Hon. Morris Harville
400 N. Walnut
Clarksville 75426
LEPC Phone: 903-427-2680
Spill Phone: 903-427-3838
E-Mail: redriver0001@yahoo.com

Reeves County

Mr. Ricardo Herrera
700 Doggett, Ste. E. Box 11
Pecos 79772
LEPC Phone: 432-447-3542
Spill Phone: 911
E-Mail: reevesem@nwl.net

**Refugio County-Electronic via Email
Coastal Plain LEPC**

The Hon. Rene Mascaro
808 Commerce, Rm. 104
Refugio 78377
LEPC Phone: 361-526-4434
Spill Phone: 361-526-2351
E-Mail: macypepper@hotmail.com

Roberts County

The Hon. Vernon Cook
P. O. Box 478
Miami 79059
LEPC Phone: 806-868-3721
Spill Phone: 911
E-Mail: vernon.cook@co.roberts.tx.us

Robertson County

Mr. Bill Huggins
P. O. Box 427
Franklin 77856
LEPC Phone: 972-828-3542
Spill Phone: 911
E-Mail: bhugqinsemc@yahoo.com

Rockwall County

The Hon. Chris Florance
1101 Ridge Rd., Ste. 202
Rockwall 75087
LEPC Phone: 972-882-2885
Spill Phone: 911
E-Mail: bbell@rockwallcountytexas.com

Runnels County

The Hon. Marilyn Egan
613 Hutchings Ave., Room 103
Ballinger 76821
LEPC Phone: 325-365-2633
Spill Phone: 911
E-Mail: runnelsemc@tx.us.net

Rusk County

Ms. Patty Sullivan
115 N. Main, Ste. 500-A
Henderson 75652
LEPC Phone: 903-657-0326
Spill Phone: 911
E-Mail: patricia.sullivan@co.rusk.tx.us

Sabine County

The Hon. Charles Watson
P. O. Box 716
Hemphill 75948
LEPC Phone: 409-787-3543
Spill Phone: 911
E-Mail: charles.watson@co.sabine.tx.us

San Augustine County

The Hon. Randy Williams
100 W. Columbia, Rm. 203
San Augustine 75972
LEPC Phone: 936-275-2762
Spill Phone: 936-275-2424
E-Mail:

San Jacinto County

The Hon. Fritz Faulkner
1 State Hwy. 150, Rm. 5
Cold Spring 77331
LEPC Phone: 936-653-4331
Spill Phone: 911
E-Mail: NA

**San Patricio County-Elec. Via Email
Coastal Plain LEPC**

Mr. William E. Zagorski, Sr.
300 N. Rachal St.
Sinton 78387
LEPC Phone: 361-364-9650
Spill Phone: 911
E-Mail: macypepper@hotmail.com

San Saba County

Ms. Marsha Hardy
500 E. Wallace, #111
San Saba 76877
LEPC Phone: 325-372-5600 /
325-372-8570
Spill Phone: 911
E-Mail: emergencymgmt@sansabacounty.org

Schleicher County

Mr. Jerry J. Jones
P. O. Box 820
Eldorado 76936
LEPC Phone: 325-853-2314
Spill Phone: 911
E-Mail: eldoemc@msn.com

Scurry County

The Hon. Rod Waller
1806 25th St., Ste. 200
Snyder 79549
LEPC Phone: 325-573-8576
Spill Phone: 911
E-Mail: scjudget@snydertext.com

Shackelford County

The Hon. Ross Montgomery
P. O. Box 2797
Albany 76430
LEPC Phone: 325-762-2232 ext. 4
Spill Phone: 911
E-Mail: judgeross@sbcglobal.net

Shelby County – Electronic via Email

The Hon. John Tomlin
200 San Augustine St.
Center 75935
LEPC Phone: 936-598-3863
Spill Phone: 911
E-Mail: cojudget@co.shelby.tx.us

Sherman County

The Hon. Terri Beth Carter
P. O. Box 165
Stratford 79084
LEPC Phone: 806-366-2021
Spill Phone: 911
E-Mail: cojudget@co.sherman.tx.us

Smith County

Mr. Jim Seaton
11325 Spur 248
Tyler 75707
LEPC Phone: 903-590-2653
24 hr #: 903-566-6600
Spill Phone: 911
E-Mail: mthompson@smith-county.com

Somervell County

Mr. Ronald Hankins
P. O. Box 1335
Glen Rose 76043
LEPC Phone: 254-897-2277
Spill Phone: 911
E-Mail: attorney@vallornet.com

Starr County

Gene Falcon
100 N. FM 3167, Ste. 202
Rio Grande City 78582
LEPC Phone: 956-716-4800
Spill Phone: 911
E-Mail: falconeugenio@yahoo.com

Stephens County

Mr. George Rodgers
105 N. Rose
Breckenridge 76424
LEPC Phone: 254-559-8287
Spill Phone: 911
E-Mail: rogermc@wtconnect.com

Sterling County

Mr. Delmar Radde, Jr.
P. O. Box 577
Sterling City 76951
LEPC Phone: 325-378-2021
Spill Phone: 911
E-Mail: NA

Stonewall County

Mr. Jimmy Pitcock
P. O. Box 834
Aspermont 79502-0834
LEPC Phone: 940-989-3393
Spill Phone: 911
E-Mail: NA

Sutton County – Hard Copy

Ms. Carla Garner
P. O. Box 1212
Sonora 76950
LEPC Phone: 325-387-2711
Spill Phone: 911
E-Mail: NA

Swisher County-Electronic via Email

The Hon. Harold Keeter
Swisher County Courthouse
119 S. Maxwell
Tulia 79088
LEPC Phone: 806-995-3504
Spill Phone: 911
E-Mail: harold.keeter@swisher-tx.net

Tarrant Count- Electronic via Email

Mr. Juan Ortiz
1000 Throckmorton St.
Fort Worth 76102
LEPC Phone: 817-392-6171
Spill Phone: 911
E-Mail: oem@fortworthgov.org

Taylor County - Email Only

Ms. Pam Young
400 Oak Street, Suite 107
Abilene 79602
LEPC Phone: 325-674-1393
Spill Phone: 911
E-Mail: tlepc@taylorcountytexas.org

Terrell County

The Hon. Leo Smith, Jr.
P. O. Box 4810
Sanderson 79848
LEPC Phone: 432-345-2525
Spill Phone: 911
E-Mail: co.judget@co.terrell.tx.us

Terry County-Electronic via Email

Mr. Mitch McElroy, EMC
201 W. Broadway
Brownfield 79316
LEPC Phone: 806-637-4547
Spill Phone: 911
E-Mail: mdmcleroy@valornet.com

Throckmorton County

The Hon. Trey Carrington
P. O. Box 700
Throckmorton 76483
LEPC Phone: 940-849-3081
Spill Phone: 911
E-Mail: cojudgethrock@tqncable.com

Titus County

Hon. Sam W. Russell
100 W. First, #200
Mt. Pleasant 75455
LEPC Phone: 903-577-6791
Spill Phone: 911
E-Mail: NA

**Tom Green County Electronic via
Email**

Ms. Teresa Covey
8485 Hangar Rd.
San Angelo 76904
LEPC Phone: 325-657-4230
Spill Phone: 911
E-Mail: teresa.covey@sanangelotexas.us

Travis County

Ms. JoAnn Dunlap
C/O Austin Fire Dept.
One Texas Center, Suite 200
505 Barton Springs Road
Austin 78704
LEPC Phone: 512-974-0182
Spill Phone: 911
E-Mail: pete.baldwin@co.travis.tx.us

Trinity County

The Hon. Mark Evans
P. O. Box 457
Groveton 75845
LEPC Phone: 936-642-1746
Spill Phone: 911
E-Mail: tcjudget@consolidated.net

Tyler County

Emergency Management Office
201 Veterans Way, Rm. 19
Woodville 75979
LEPC Phone: 409-331-0874
Spill Phone: 911

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill.
Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONSTexas Local Emergency Planning Committees
Alphabetical Listing by County Updated 2/8/2010

E-Mail:
Upshur County
The Hon. Dean Fowler
P. O. Box 730
Gilmer 75644
LEPC Phone: 903-843-4003
Spill Phone: 911
E-Mail:
dean.fowler@countyofupshur.com

Upton County
The Hon. Vikki Bradley
P. O. Box 482
Rankin 79778
LEPC Phone: 432-693-2321
Spill Phone: 911
E-Mail: NA

Uvalde County
The Hon. William Mitchell
Courthouse Plaza, Box 3
Uvalde 78801
LEPC Phone: 830-278-3216
Spill Phone: 911
E-Mail: wrnci@uvaldecounty.com

Val Verde County
Ms. Emma Mansfield
400 Pecan St.
Del Rio 78841
LEPC Phone: 830-774-7501
Spill Phone: 911
E-Mail:
otila_gonzalez@valverdecounty.org

Van Zandt County-Elec. via Email
Mr. Chuck Allen, EMC
1220 W. Dallas St.
Canton 75103
LEPC Phone: 903-567-4133 x 482
Spill Phone: 911
E-Mail: calen@vanzandtcountry.org

Victoria County
Mr. Jeb Lacey
P. O. Box 1758
Victoria 77901
LEPC Phone: 361-485-3362
Spill Phone: 911
E-Mail: jlacey@victoriatx.org

Walker County-Electronic via Email
Ms. Sherri Pegoda
1100 University Ave., Ste. 204
Huntsville 77340
LEPC Phone: 936-436-4910
Spill Phone: 911
E-Mail: spegoda@co.walker.tx.us

Waller County
The Hon. Owen Ralston
836 Austin, Ste. 203
Hempstead 77445
LEPC Phone: 979-826-7700
Spill Phone: 911
E-Mail: bkn1505@aol.com

Ward County
The Hon. Greg Holly
400 S. Allen, Suite 100
Monahans 79756-4600
LEPC Phone: 325-943-3200
Spill Phone: 911
E-Mail: NA

Washington County-Elec. Via Email
Mr. Robert Smith
1305 East Blue Bell Road Ste 112
Brenham 77833
LEPC Phone: 979-277-6288
979-337-1412
Spill Phone: 911
E-Mail: rsmith@wacounty.com
Tier2 Email: tier2@wacounty.com

Webb County Email
Mr. Andres Butler
1110 Washington St., Ste. 303
Laredo 78040
LEPC Phone: 956-523-4055
Spill Phone: 911
E-Mail: abutler@webbcountytx.gov

Wharton County
Mr. Andy Kirkland
116 E. Burleson, Rm. 102
Wharton 77488
LEPC Phone: 979-532-1123
Spill Phone: 911
E-Mail: andy.kirkland@co.wharton.tx.us

Wheeler County
Mr. Ken Daughtry
P. O. Box 375
Wheeler 79096
LEPC Phone: 806-826-3777
Spill Phone: 911
E-Mail: kideoc@hotmail.com

Wichita County
Mr. Lee Bourgoin
110 Jefferson Street
Wichita Falls 76306-7140
LEPC Phone: 940-763-0820
Spill Phone: 911
E-Mail: lee.bourgoin@co.wichita.tx.us

Wilbarger County
Mr. Charles Stewart
P.O. Box 1718
Vernon 76385
LEPC Phone: 940-357-9115
Spill Phone: 911
E-Mail: wilbargercountymc@att.net

Willacy County
Mr. Eddie Chapa
P. O. Box 365
Raymondville 78580
LEPC Phone: 956-689-3321
Spill Phone: 911
E-Mail: echapa@willacycounty.org

Williamson County
Mr. Jarred Thomas
P. O. Box 873
Georgetown 78627
LEPC Phone: 512-943-3747
Spill Phone: 911
E-Mail: 0

Wilson County Electronic via Email required
Ms. LeAnn Hosek
EMC/911 Coordinator
800 10th St. Bldg. B
Floresville 78114
LEPC Phone: 830-393-8351
Spill Phone: 911
E-Mail: leannema@felpsis.net

Winkler County
The Hon. Bonnie Leck
P. O. Drawer Y
Kermit 79745
LEPC Phone: 432-586-6658
Fax: 432-586-3223
Spill Phone: 911
E-Mail: bleck@co.winkler.tx.us

Wise County
The Hon. Bill McElhaney
P. O. Box 393
Decatur 76234
LEPC Phone: 940-627-5743
Spill Phone: 911
E-Mail: coulidge@co.wise.tx.us

Wood County
Mr. Randy Selman
P. O. Box 938
Quitman, TX 75783
LEPC Phone: 903-763-2356
Spill Phone: 911
E-Mail: rselman@co.wood.tx.us

Yoakum County
Mr. Carl Whittaker
P. O. Box 456
Plains 79355
LEPC Phone: 806-456-7491
Spill Phone: 911
E-Mail: NA

Young County
Mr. Matt Pruitt
315 N. Cliff Dr.
Graham 76450
LEPC Phone: 940-549-1777
Spill Phone: 940-549-1555
E-Mail: m.pruitt@youngcounty.org

Zapata County
Chief J.J. Messa
P. O. Box 831
Zapata 78076
LEPC Phone: 956-765-9942
Spill Phone: 911
E-Mail: NA

Zavala County
The Hon. Joe Luna
200 E. Uvalde St., Ste 9
Crystal City 78839
LEPC Phone: 830-374-3810
Spill Phone: 911
E-Mail: joe.luna@co.zavala.tx.us

Note: **Spill Phone** is the **emergency** number a facility should call to report a CERCLA or EPCRA hazardous chemical spill.
Once the emergency situation is under control, a facility should notify the LEPC using the number designated under **LEPC Phone**.

TEXAS STATE APPENDIX

SECTION 2
NOTIFICATIONS

THIRD PARTY UTILITY OR PIPELINES

Field Team Area	Third Party Utility or Pipeline Company Name	Emergency Contact Number
ALL	Burlington Northern Santa Fe Railroad	800-832-5452
ALL	Canadian Pacific Railway	800-777-4499
Mt.Belvieu	CenterPoint Energy - Houston	800-332-7143
Mt. Belvieu	Constellation New Energy	888-635-0827
Mt.Belvieu	Entergy Gulf States Inc	800-368-3749
Mt. Belvieu	Florida Gas Transmission Company	800-238-5066
Mt.Belvieu	Sam Houston Electric	800-458-0381
Sour Lake	Entergy	800-968-8243
Sour Lake	Florida Gas Transmission Company	713 654-7836
West Texas	Atmos Energy	800-692-4694
West Texas	Big Country Electric Cooperative	325-573-3161
West Texas	Cap Rock Electric	800-442-8688
West Texas	Central Valley Elec Coop Inc	505-746-3571
West Texas	Comanche Co Electric	800-915-2533
West Texas	Concho Valley Electric Cooperative	325-655-6957
West Texas	Constellation New Energy	888-635-0827
West Texas	Lea County Electric Coop	505-396-3631
West Texas	South Plains Electric Cooperative, Inc.	806-741-4200
West Texas	Southwest Texas Electric Coop, Inc.	325-853-2544
West Texas	Taylor Electric Cooperative	325-928-4715
West Texas	Xcel Energy	800-895-1999
Wortham	Comanche Co Electric	800-915-2533
Wortham	Constellation New Energy	888-635-0827
Wortham	HILCO - Hill County Electric Cooperative, Inc.	254-687-2331
Wortham	Houston County Electric Coop	936-544-5641
Wortham	Rusk County Electric Cooperative	903-657-4571
Wortham	Sam Houston Electric	800-458-0381
Wortham	Southwestern Electric Power Co.	877-373-4858
Wortham	Tri-County Electric Membership Cooperative (TX)	817-444-3201
Wortham	Trinity Valley Electric Cooperative, Inc.	972-932-2214
Wortham	Wise Electric Cooperative	888-627-9326

SECTION 2

NOTIFICATIONS

TEXAS STATE APPENDIX

U.S. FIELD PGPA EMERGENCY RESPONSE COVERAGE

Geography Coverage	Primary	Location	Phone number	Cell Number	Secondary	Location	Phone Number	Cell Number
AL, GA, FL, SC, NC, KY, TN, NJ	Stan Luckoski <i>Corp PGPA</i>	Atlanta	770.984.3010	(b) (6)	Steve Renfroe <i>Global DS</i>	Pascagoula	228.938.4548	(b) (6)
					Phil Blackburn <i>Global Gas</i>	Houston	713.372.4920	
LA (On-Shore) and Gulf Coast Off-Shore	Felicia Frederick <i>CNAEP/GOM</i>	Covington	985.773.6082		Chanel Jolly CNAEP/GOM	Covington	985-773-6454	
MS (Onshore)	Steve Renfroe <i>Global DS</i>	Pascagoula	228.938.4548		Katherine Swetman <i>Global DS</i>	Pascagoula	228.938.4855	
					Amy Brandenstein <i>Global DS</i>	Pascagoula	228.938.4563	
					Trudi Dixon <i>Global DS</i>	Pascagoula	228.938.4964	
TX, NM, OK, Houston	Mickey Driver <i>Corp PGPA</i>	Houston	713.372.4912		Margaret Cooper <i>Corp PGPA</i>	Houston	713.372.4919	
UT, ID, MT, WY, CO	Greg Hardy <i>Corp PGPA</i>	Salt Lake	801.539.7337		Mickey Driver <i>Corp PGPA</i>	Houston	713.372.4912	
Los Angeles, San Bernardino, Riverside Counties	Rod Spackman <i>Global DS</i>	El Segundo	310.615.5281		Lily Craig <i>Global DS</i>	El Segundo	310.615.5483	
					Jill Brunkhardt <i>Global DS</i>	El Segundo	310.615.5387	
Orange County, San Diego County, AZ, NV, NM	Juan Garcia <i>Global DS</i>	Brea	714.671.3457		Rod Spackman <i>Global DS</i>	El Segundo	310.615.5281	
					Lily Craig <i>Global DS</i>	El Segundo	310.615.5483	
AK	Roxanne Sinz <i>CNAEP/MCA</i>	Anchorage	907.263.7623		Christine LeLaurin <i>CNAEP/MCA</i>	Houston	713.372.2927	

SECTION 2

NOTIFICATIONS

TEXAS STATE APPENDIX

Geography Coverage	Primary	Location	Phone number	Cell Number	Secondary	Location	Phone Number	Cell Number
Central California	Carla Musser <i>CNAEP</i>	Bakersfield	661.654.7155	(b) (6)	Simon Tait <i>CNAEP</i>	Bakersfield	661.654.7153	(b) (6)
Central California - Coastal Areas	Suzanne Parker <i>Global DS</i>	San Luis Obispo	805.546.6985		Carla Musser <i>CNAEP</i>	Bakersfield	661.654.7155	
Northern California, OR, WA San Ramon/ Concord Office Bldgs.	Marian Catedral <i>Global DS</i>	San Ramon	925-842-2969		Juan Garcia <i>Global DS</i>	Brea	714.671.3457	
					Marielle Boortz <i>Corp PGPA</i>	San Ramon	925.790.3496	
Richmond	Dean O' Hair <i>Global DS</i>	Richmond	510.242.2400		Walt Gill <i>Global DS</i>	Richmond	510.242.3585	
Sacramento	Steve Burns <i>Corp PGPA</i>	Sacramento	916.441.3638		KC Bishop <i>Corp PGPA</i>	Sacramento	916.441.3638	
Washington, D. C.	Lisa Barry <i>Corp PGPA</i>	Washington DC	202.408.5865		Dan Fager <i>Corp PGPA</i>	Washington DC	202.408.5857	
					Dave Sander <i>Corp PGPA</i>	Washington DC	202.408.5853	
Hawaii	Albert Chee <i>Corp PGPA</i>	Kapolei	808.682.2313		Rod Spackman <i>Global DS</i>	El Segundo	310.615.5281	
					Carina Tagupa <i>Corp PGPA</i>	Hawaii	808.682.2333	
Last update 4/26/11			Chevron Confidential			Revised by: Mylene Bombon (MBOM) (925) 842-0775		

U.S. Field PGPA Emergency Response Coverage – Continued Next Page

SECTION 2 NOTIFICATIONS

TEXAS STATE APPENDIX

U.S. Field PGPA Emergency Response Coverage - Continued

Functional Notification by PGPA Person:								
Upstream	Ed Spaulding	Houston	713.372.5513	713.504.2565				
Upstream	Maria Pica Karp	San Ramon	925.842.2595	925.997.0091				
Gas & Midstream	Brad Haynes	San Ramon	925.842.6146	202.615.5753				
Chevron Pipe Line Company	Santana Gonzalez	Houston	713.432.3883	713.397.5994				
Chevron Shipping Company	Christine Wigren	San Ramon	925.842.5755	925.699.4619	Brad Haynes	San Ramon	925.842.6146	202.615.5753
Downstream	Jeff Swindel	San Ramon	925.842.2983	925.997.3694				
Other Contacts:								
Media Relations	Sean Comey	San Ramon	925.842.0788	650.575.5655				
Manager, Internal Communications	Deb McNaughton	San Ramon	925.842.0851	925.348.5001				
GM, Public Affairs	Dave Samson	San Ramon	925.842.2615	415.279.7737				
HR, Internal Communications	Susan Boyle	San Ramon	925.842.4918	925.997.7672				
Houston Area Crisis Committee	Amber Tierce	Houston	713.372.4909	832.453-6271				
PGPA 24-hour phone number:	925.218.3825							
Chevron Emergency Information Center	800.231.0623							
Other Numbers:								
Emergency News Line:	925.842.3400	BRES Service Center:	8-123					
Media Relations Pager:	925.218.3825	San Ramon Police:	925.973.2700					
Emergency Facility Services:	925.842.7777	San Ramon Fire:	925.838.6600					
Chevron Park Security:	925.842.2105	San Ramon Hospital:	925.275.9200					
Last update 4/26/11		Chevron Confidential				Revised by: Mylene Bombon (MBOM) (925) 842-0775		

RESOURCES

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TEXAS STATE APPENDIX

SECTION 3
RESOURCES

SECTION 3 RESOURCES

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TEXAS STATE APPENDIX**SECTION 3
RESOURCES**

RESPONSE RESOURCES**Local Area and Regional Response Equipment**

Company has response equipment stored at a number of locations throughout its operating area. Detailed equipment lists are provided in this State Appendix Plan. Company will maintain company owned equipment.

In the event of a discharge that is beyond the capability of locally available company resources, the response team may request activation of other Company resources. Company also stores and maintains oil spill response and related emergency equipment in the Northwest, California, Texas and New Mexico operating area that will be available if needed.

The response team could also request activation of other Company resources, or that of private contractors, OSRO's, cooperatives, ie; Marine Spill Response Corporation (MSRC) and other experts and consultants as discussed in this Plan.

For regional response and resources, please refer to the Gulf of Mexico Regional Oil Spill Response Plan, maintained by Chevron Production Company. A copy is maintained in the Louisiana State Appendix.

Other Company Resources

To facilitate mutual aid, the Company Mutual Aid Directory for North America describes emergency capabilities and provides contact information.

Contract Resources

In the event of a discharge, which is beyond the initial response capabilities of the Immediate Response Team (Team level), contract resources can be activated. The resources will be secured from a Company approved contractor database. Contract resources are responsible to maintain their equipment.

Contractors

Most local area units have outside contractors available if additional resources are needed for immediate response efforts. If additional resources are required other than available locally, Company has contracts with several companies that will respond to spills in the operating area.

Consultants

The Company has Master Service Agreements with a number of consultants offering expertise in spill response, dispersant use, in-situ burning and environmental issues. These consultants are listed in the Core Plan.

TEXAS STATE APPENDIX**SECTION 3
RESOURCES**

Cooperative Resources**External Emergency Response Resources**

The Company maintains a relationship with various environmental and technical consultants that can provide support in the event of an incident. These consultants can provide expertise and support in areas including emergency response management, environmental services, site assessment, permitting, waste treatment, recycling, dewatering, hazardous waste disposal and remediation. Contact should be made through the HES Team.

SECTION 3
RESOURCES

TEXAS STATE APPENDIX

EMERGENCY RESPONSE OSRO CONTACT INFORMATION

Regional Contacts

Company	Locations	Type of Contract	24-Hour Phone	Fax
ES&H	Pasadena, TX	CPL	877-437-2634	281-448-6602
Garner Environmental	Houston, TX LaMarque, TX Port Arthur, TX	CPL	800-424-1716	281-478-0296
Industrial Cleanup, Inc. (ICI)	Garyville, LA Westwego, LA Lafayette, LA Lake Charles, LA	CPL	504-535-2697 504-363-8126	504-535-3262
Ampol	Gulf Coast	CPL	800-842-6765	

National Contacts

Company	Locations	Type of Contract	24-Hour Phone	Fax
Reidel	Primarily west of Mississippi River.	Chevron	800-334-0004	
MSRC/CGA 980 West Lincoln Road Lake Charles, LA 70605-0635	Lafayette, LA, plus 12 other Gulf Coast locations.	Chevron	318-837-7400 888-242-2700	
Oil Mop, Inc.			800-645-6671	
Clean Gulf Associates (CGA)			888-242-2007	
Marine Spill Response Corporation (MSRC)			888-242-2007	
ES&H			877-437-2634	
Philip Services, Corp.			888-631-9652	
Garner Environmental Services, Inc.			800-975-2444	
Ampol			800-482-6765	

Note: Company is also a member of Marine Spill Response Contractors (MSRC).

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SECTION 3
RESOURCES

OSRO CONTRACTS

Chevron Pipe Line Company
Environmental & Technical Services
4800 Fournace Place, Rm. E320B
Bellaire, TX 77401-2324
Tel 713-432-3406
LonnieJEvans@chevron.com

Lonnie Evans, CEM
Emergency Response Specialist



March 20, 2010

RE: USCG Approved OSRO's

Dear: Sir or Madam:

This letter certifies that we have current procurement contracts in place with the following Emergency Response contractors. Below is a table that identifies the pertinent information. All contracts are on file at our Corporate Office in Houston, Texas.

ContractorName	Agreement Number
Advanced Cleanup Technologies	99002231
Ampol	99015262
ES&H	99012996
Garner Environmental	99002690
Marine Spill Response Corporation and its STARS Contractors	6CHUSA01
PSC Industrials Outsourcing	99002233
U S Environmental Services	99013881

Should you have any questions, please feel free to contact me at 713-432-3406.

Sincerely,

A handwritten signature in black ink that reads "Lonnie Evans".

Lonnie Evans, CEM

Emergency Response Specialist
Chevron Pipe Line Company
4800 Fournace Place, Room E320B
Bellaire, TX 77401-2324
Tel 713-432-3406
Fax 713-432-3477
LonnieJEvans@chevron.com

WASTE MANAGEMENT

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WASTE MANAGEMENT
SECTION 4**OVERVIEW**

Oil spill response can generate waste materials ranging from oily debris and sorbent materials to sanitary water and used batteries. These wastes must be classified, separated (i.e., oil, water, soil), transported from the site and treated/disposed at approved sites. Each of these activities require certain health and safety precautions be taken. This section provides a discussion of various waste classification, handling, transfer, storage and disposal alternatives. It is the responsibility of the Waste Management Coordinator to manage waste disposal needs during an oil spill cleanup.

WASTE MANAGEMENT STRATEGY

Initial waste handling and disposal needs may be overlooked in the emergency phase of a response which could result in delays and interruptions of clean-up operations. Initial waste management concerns should include:

- Skimmer capacity
- Periodic recovery of contained oil
- Adequate supply of temporary storage capacity and materials

The following action items should be conducted during a spill response:

- Development of a site-specific Safety and Health Plan addressing the proper PPE and waste handling procedures
- Continuous tracking of oil disposition in order to better estimate amount of waste that could be generated over the short and long-term
- Organization of waste collection, segregation, storage, transportation and proper disposal minimization of risk of any additional pollution
- Regulatory review of applicable laws to ensure compliance
- Documentation of all waste handling and disposal activities
- Disposal of all waste in a safe and approved manner

A waste management plan should be prepared and provided to the appropriate personnel so that specific concerns and considerations of the response may be addressed. An example of a waste disposal plan is provided in this section.

Organization

The Environmental Unit Leader will assign the waste management function to a Waste Management Coordinator, who will direct and monitor local contractors identified for the transport, storage and disposal of waste consistent with applicable laws and regulations.

Coordination With Government Agencies

The Waste Management Coordinator is responsible to assure that the waste management operation will be coordinated with the Federal On-Scene Coordinator and Local, State and Federal Agencies.

Safety

All activities carried out under the Plan shall be consistent with the approved Site Safety Plan for the incident. Coordination of these two plans is the responsibility of the Waste Management Coordinator.

Objectives of the First 24 Hours

The first 24-hour period is critical to any emergency response situation. Coordination between the Waste Management Coordinator, governmental agencies, logistics and the waste management contractor is imperative.

- As soon as enough preliminary information is known, calculations will be made to estimate volumes in each of the anticipated waste streams. A determination of storage capacity will be made; capacity of vessels on site and en route, estimated quantity of product currently in storage and possible need for alternate storage must be determined.
- Activate primary waste management contractor. The contractor will perform all offshore and impact site waste segregation, analysis, profiling and manifesting, if necessary.
- Calls will be made to State Agencies for approval to set up temporary waste storage at a logistically appropriate site. Any permitting required for upcoming activities (storage, transportation, handling, etc.) should be coordinated at this time, as well as any emergency permits anticipated for waste storage or disposal.
- Secure solid waste containers based on anticipated waste estimates of quantity and offshore waste storage capacity, get solid waste containers en route to temporary storage facility.
- Coordinate with waste management contractor and Wildlife Rehabilitation Coordinator to supply waste containers for wildlife rehabilitation activities.

Ongoing Activities of Waste Management Coordinator

- Monitor and evaluate waste storage and disposal needs and report to Environmental Unit Leader at pre-determined time intervals.
- Coordinate with Logistics for waste cleanup resources and waste storage needs (Hopper Barges for oily waste, dumpsters for non-oily waste and trash, rolloff boxes for supply boats, etc.).
- Work with Waste Management Contractors on waste storage, transportation and disposal issues.
- Track total mass of recovered material including estimated volumes decanted, evaporated, dispersed or burned for presentation during tactical briefs.

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WASTE MANAGEMENT
SECTION 4**WASTE CLASSIFICATION****Liquid Wastes**

Oily and chemical liquid wastes that can be handled, stored and disposed during response operations are very similar to those handled during routine storage and transfer operations. Oily liquids may be produced by recovery operations through the use of vacuum devices or skimmers. In addition, oily water and emulsions, such as spent motor oils and lubricants, can be generated by vessel and vehicle operations.

Response operations can produce non-oily liquid wastes. Water and other liquid wastes can be generated from the storage area, any storm water collection systems, vessel and equipment cleaning (i.e., water contaminated with cleaning agents) and office and field operations (i.e., sewage, construction activities).

Solid/Semi-Solid Wastes

Oily and chemical solid/semi-solid wastes that may be generated by containment and recovery operations include damaged or worn-out booms, other used sorbent materials, disposable/soiled equipment, saturated soils, contaminated sediments and other debris.

Other soil/semi-solid wastes may be generated by emergency construction operations (i.e., scrap, wood, pipe, wiring) and office and field operations (i.e., refuse). Vessel, vehicle and aircraft operations may also produce solid wastes.

CHARACTERIZATION OF HAZARDOUS WASTE

The purpose of characterizing waste is to protect employee safety and ensure the proper handling and disposal of waste according to the appropriate State and Federal laws. Each waste must be evaluated by individual analysis at an approved laboratory.

Hazardous wastes may be as “listed waste” or “characteristic waste” as follows:

Listed Waste

- Waste is considered hazardous if it appears on any of the four lists of hazardous waste contained in the RCRA regulations.
- These wastes are specifically identified in 40 CFR 261.31-261.33, lists F, K, P and U.
- These wastes have been listed because they either exhibit one of the characteristics described below or contain any number of toxic constituents that have been shown to be harmful to health and the environment.

Characteristic Waste

A waste is considered hazardous if it exhibits one of the four following characteristics:

1. Ignitable

**WASTE MANAGEMENT
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- A liquid with a flash point of less than 1400 F (600 C).
 - Not a liquid and capable of causing fire through friction, absorption of moisture or spontaneous chemical change.
 - Ignitable compressed gas.
2. Corrosive
- A liquid with a pH < 2 or > 12.5
 - A liquid which corrodes steel (SAE 1020) of greater than 0.25 inches per year (6.35 mm/year) at 1300 F (550 C).
3. Reactive
- Reacts violently with oxidizing substances.
 - Detonation when exposed to strong heat or pressure.
 - Explosive as defined in 49 CFR 173.
4. Toxic
- A substance which meets or exceeds threshold levels of contaminant concentrations specified in the Toxicity Characteristic Leaching Procedure (TCLP).

WASTE HANDLING

Wastes generated during response operations may need to be separated by type (i.e., hazardous/non-hazardous and exempt/non-exempt) and transferred to temporary storage before treatment, incineration or disposal. Proper handling of waste is imperative to ensure personnel and public health and safety, as well as efficient disposal.

Safety Considerations

Care should be taken to minimize direct contact with wastes. All clean-up personnel should wear personal protective equipment (PPE) appropriate for the type of waste they are handling. A barrier cream may be applied prior to putting on gloves to further reduce the possibility of absorption through the skin. Any portion of the skin exposed to waste should be cleansed as soon as possible. Safety goggles must be worn by personnel involved in waste handling where splashing might occur. Decontamination zones may be needed during response operations to properly clean and decontaminate personal protective clothing and evaluate any personnel exposure. Contract spill response personnel should have appropriate prior training. Details can be found in the Site Safety Plan located in the Volume 1 Core Plan.

WASTE STORAGE

Interim storage of recovered oil, oily and non-oily waste may be necessary until a final waste management method is selected. These materials may be considered hazardous depending on the type and concentration involved. Often, oily waste and debris generated from clean-up activities consist of recovered oil, sorbents, PPE, soil, trash, vegetation, oil/water mixtures and other wastes. Management of these wastes requires facilities and procedures for:

**WASTE MANAGEMENT
SECTION 4****TEXAS STATE APPENDIX**

- Collection/Waste Handling
- Temporary Storage
- Waste characterization
- Transport
- Processing
- Disposal

In addition, the segregation of wastes according to type could facilitate the appropriate method of disposal. The storage method used depends upon the type and volume of material to be stored, storage duration, site access and applicable regulations.

Temporary storage sites should use appropriate measures to protect the environment and human health. They should be designed to prevent leakage and contact of wastes with soil or surface water. The following elements may affect the choice of a potential storage site:

- Geology
- Soil characteristics
- Surface water proximity
- Surface slope
- Site and nearby land use
- Site security
- Public contact
- Hydrology
- Flooding potential
- Climatic factors
- Volumetric capacity
- Possible toxic air emissions
- Site access

Proper isolation and containment of wastes during storage will minimize additional associated cleanups. The waste should be secured so that uncontaminated material is not exposed to the waste.

When the waste has been removed from the storage site, any ground protection (visqueen, liners, etc.) need to be removed and properly disposed of. Any surrounding soil that has been contaminated will also need to be removed for treatment or disposal.

The management of the wastes generated in clean-up and recovery activities must be conducted with the overall objective of ensuring:

- Worker Safety
- Waste Minimization
- Cost-Effectiveness
- Minimization of Environmental Impacts
- Proper Disposal
- Minimization of present and future environmental liability

Solid wastes such as sorbents, PPE, debris and equipment will typically be transported from the collection site to a designated facility for storage, waste segregation, packaging and transportation. Once this process is complete, the waste will be shipped off-site to an approved facility for required disposal.

WASTE DISPOSAL

Techniques for Management of Recovered Oil

Recovery, reuse and recycling are preferred options when draining with spill waste management. Treatment (neutralization, landfarming) is the next preferred option, but incineration and fuel blending for energy recovery are also possibilities. Landfill disposal should be the last option. During an oil spill incident, consult Corporate Subject Matter Experts to identify the optimal waste management methods and sites.

There is no template or combination of waste management methods that can be used in every spill situation. Each incident should be reviewed carefully to ensure an appropriate waste management method or a combination of methods is employed.

The following is an outline of the available waste disposal methods. Various combinations of these methods can be analyzed for disposal of the waste generated during the response operation.

Landfill

Landfill should be considered after all other alternatives have been eliminated. Disposal at landfill facilities may depend on available capacity of the local landfill and governmental restrictions. In addition, it may cost more to dispose of waste at a landfill. Under the right conditions, landfilling waste may be useful in that it is a method which can be implemented rapidly and the landfill can receive a variety of waste. For proper disposal, the landfill must be permitted by the appropriate regulatory agencies.

Land Treatment or Bio-Treatment

Oily waste can be disposed of at these facilities when mixed with sand or sediment. This is considered to be a proven method for disposal of oily liquids and sediments. In addition, it is a method which can also be implemented fairly quickly. A large surface area is required however and may not be useful for large quantities of oily debris.

Incineration (Total Destruction)

Incineration is generally used only for hazardous waste disposal. It is a costly process and takes time to implement. Energy recovery facilities generally use a rotary kiln to burn oily waste and use the resulting heat for facility heating or production processes. Many of these facilities can accept items such as oil filters, sorbent pads and booms, oily rags and most other burnable material generated during cleanup operations.

Treatment

A method by which a waste quantity and/or toxicity is reduced. Treating a waste may produce its own waste which would also require disposal. Examples of treatment are neutralization or solidification of liquids.

Recycle/Reuse

Recycling involves the process of processing discarded materials for another use. For example, oil may be sent to a refinery or other processing plant for refining. Reuse of a material implies it can be used again for its intended purpose.

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WASTE MANAGEMENT

SECTION 4

MODEL DISPOSAL PLAN FOR OIL SPILLS

This plan is written at the request of the MMS, U.S. Coast Guard, DOT, EPA and/or the State of Texas (whichever are applicable). _____ (responsible party) will recover the maximum feasible amount of condensate oil spilled during the _____ (incident name) from _____ (description of area involved). In addition, an unknown quantity of contaminated solid debris will be recovered during the cleanup.

_____ **(Incident name) DISPOSAL PLAN**

Sampling And Testing:

Sampling of contaminated debris and soil/sand will be accomplished by the following methods:

(description of sampling procedures, and photographs)

Testing procedures to be utilized are as follows:

(description of testing methods)

The result of the testing is as follows:

(description of quantity and type of material, and how it designates)

Copies of the lab analysis of samples is included as attachment # _____ and is certified as true and correct to the best knowledge of the Company, by the signature of this plan by _____ (representative of the Company).

Interim Storage

Interim storage has been designated at _____ (number) sites. They are: _____ (name, address or description of each location) with the approval of _____ (name of local health department representative). A copy of the approval/agreement letter is included as attachment # _____.

Interim storage of oily debris will be held at _____ (site names/locations) for no more than 90 days. The sites will be designed to use the best achievable technology to protect the environment and human health.

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SECTION 4

MODEL DISPOSAL PLAN FOR OIL SPILLS

The _____ (Site name/location) interim storage site (do this for each one) will be protected.

SOLID WASTE; (do this for each type of treatment/disposal)

_____ (type i.e.; gravel, soil, sand) debris has been approved through appropriate testing for _____ (disposal or treatment type, i.e.; reuse in asphalt production, bioremediation, land farming, incineration, burning for energy recovery, etc.) at _____ (name of facility or treatment site) which is located _____ (address/location and proximity to interim storage or cleanup site). This _____ (facility, site) has storage capacity to hold the _____ (type) debris for the amount of time required to completely (recycle, treat, burn, incinerate, landfill) the amount generated during _____ (name of incident) _____ (product spilled) spill clean-up effort.

Approval and acceptance of the _____ (type) waste is included as attachment # _____ in the form of _____ (i.e.; letter between the Company and treatment/disposal facility manager, approval signature of Incident Commander on treatment/disposal proposal, etc.) This _____ (type) debris will begin being transported from interim storage site(s) _____ (site name/location at _____ (time) on _____ (date).

This plan may be amended as necessary to ensure compliance with all applicable laws and regulations. Amendments may occur only upon mutual agreement of the responsible party, the MMS, the U. S. Coast Guard, the EPA and/or the State of Texas.

Submitted the _____ Day of _____, 20__;
executed _____, 20__.

By _____ (Company Representative)
Date: _____

Approved:

Reviewed by:

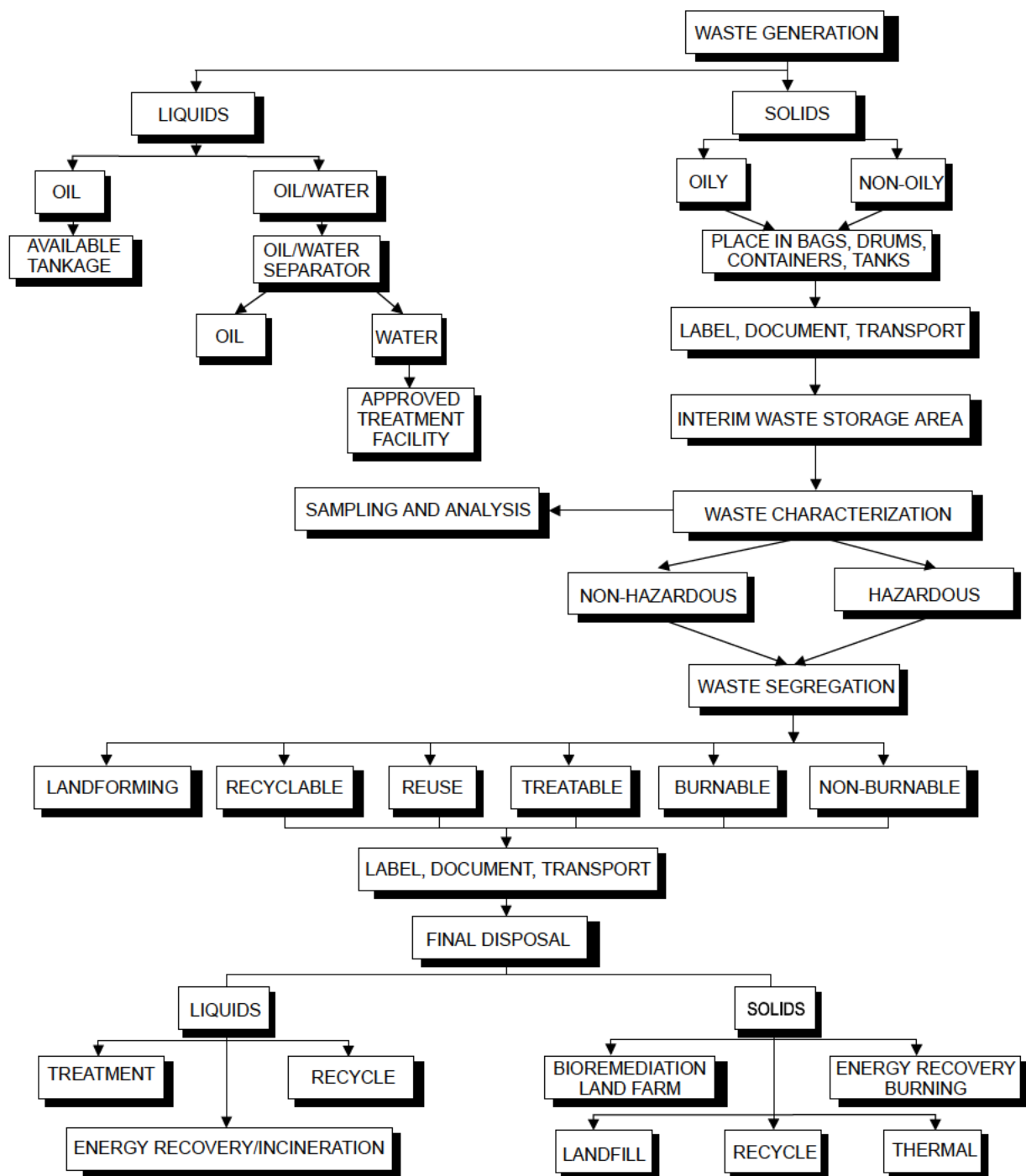
State of Texas MMS/U.S. Coast Guard/EPA

By _____ (SOSC) By _____ Date: _____
Date: _____

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FACILITY WASTE MANAGEMENT FLOW CHART



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GENERAL WASTE CONTAINMENT AND DISPOSAL CHECKLIST

Consideration	Yes/No/NA
Is the material being recovered a waste or reusable product?	
Has all recovered waste been containerized and secured so there is no potential for further leakage while the material is being stored?	
Has each of the discrete waste streams been identified?	
Has a representative sample of each waste stream been collected?	
Has the sample been sent to an approved laboratory for the appropriate analysis, i.e. hazardous waste determination?	
Has the appropriate waste classification and waste code numbers for the individual waste streams been received?	
Has a temporary EPA identification number and generator number(s) been received, if they are not already registered with EPA?	
Have the services of a registered hazardous waste transporter been contracted, if waste is hazardous?	
If the waste is nonhazardous, is the transporter registered?	
Is the waste being taken to an approved disposal site?	
Is the waste hazardous or Class I nonhazardous?	
If the waste is hazardous or Class I nonhazardous, is a manifest being used?	
Is the manifest properly completed?	
Are all Federal, State, and Local laws/regulations being followed?	
Are all necessary permits being obtained?	
Has a disposal plan been submitted for approval/review?	

WASTE MANAGEMENT SECTION 4

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STORAGE, TRANSFER AND DISPOSAL PROCEDURES

Storage

During an oil spill incident, the volume of oil that can be recovered and dealt with effectively depends upon the storage capacity available. Typical short-term storage options are summarized in this section. The majority of these options can be used either onshore or offshore. In addition, environmental conditions or locations may necessitate some type of special containment needs. If storage containers such as bags or drums are used, the container should be clearly marked and/or color-coded to indicate the type of material/waste contained and/or the ultimate disposal option. Bladder or pillow tanks would be acceptable if the space available is capable of supporting the weight of both the container and product.

If storage pits are used, they should be bermed and covered with liners that extend over the bermed area. Storage pits should be located on as level terrain as possible, at least 5 feet above the high-water mark of streams, rivers, and lakes and where drainage is dispersed and not concentrated.

Temporary Storage Methods

Container	Onshore	Offshore	Solid	Liquid	Notes
Barrel	Y	Y	Y	Y	May require handling devices
Tank Trucks	Y			Y	Consider road access onshore Barge-Mounted offshore
Dump/Flat Bed Trucks	Y		Y		Require impermeable liner and cover Consider flammability of vapors at mufflers
Barges		Y	Y	Y	Liquids only in tanks Consider venting of tanks
Oil Storage Tanks	Y	Y		Y	Consider problems of large volumes of water in oil
Bladders	Y	Y		Y	May require special hoses or pumps for oil transfer
Pits	Y		Y	Y	Liner(s) required
Roll-off Bins	Y		Y		Require impermeable liner and cover
Mud Tanks	Y	Y	Y	Y	500 gallon - 500 bbls
Fast Tanks	Y	Y	Y	Y	Portable, can be deployed anywhere

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WASTE MANAGEMENT
SECTION 4**Transfer**

Several transfers may be necessary before the oil and oily debris are ultimately disposed of at a state approved disposal site. Depending on the location of response operations, at least the following transfer operations may occur:

- From portable or vessel-mounted skimmers into flexible bladder tanks, the storage tanks of the skimming vessel itself, or a barge.
- Directly into the storage tank of a vacuum device.
- Directly into the storage tank on a dredge.
- From a skimming vessel or flexible bladder to a barge.
- From a vacuum device storage tank to a barge.
- From a barge to a tank truck.
- From a tank truck to a processing system (i.e., oil/water separator).
- From a processing system to a recovery system and/or incinerator.
- Directly into impermeable bags that, in turn, are placed in impermeable containers.
- From containers to trucks.
- From trucks to lined pits.
- From lined pits to incinerators and/or landfills.

There are four general classes of transfer systems that could be employed to effect oily waste transfer operations:

- Pumps;
- Vacuum systems;
- Belt/screw conveyors; and
- Wheeled vehicles.

A comparative evaluation of 14 types of transfer systems that could be available for transfer operations is provided in this section.

The following is a brief discussion of each of the general classes of transfer systems.

Pumps

Rotary pumps, such as centrifugal pumps, may be used when transferring large volumes of oil, but may not be appropriate for pumping mixtures of oil and water. The extreme shearing action of centrifugal pumps tends to emulsify oil and water, thereby increasing the viscosity of the mixture and causing low, inefficient transfer rates. The resultant emulsion would also be more difficult to separate into oil and water fractions.

Lobe or "positive displacement" pumps work well on heavy, viscous oils and do not emulsify the oil/water mixture.

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Double acting piston and double acting diaphragm pumps are reciprocating pumps that may also be used to pump oily wastes.

Vacuum Systems

Vacuum systems, such as air conveyors, vacuum trucks and portable vacuum units may be used to transfer viscous oil and debris, but are large and heavy and usually have a very high water/oil ratio.

Belt/Screw Conveyors

Conveyors may be used to transfer oily wastes containing a large amount of debris. These systems can transfer weathered debris laden with oil either horizontally or vertically for short distances (i.e., 100 feet). However, these systems are bulky and difficult to set up and operate.

Wheeled Vehicles

Wheeled vehicles may be used to transfer liquid wastes of oily debris to storage or disposal sites. These vehicles are readily available but have a limited transfer rate (i.e., 100 barrels) and require good site access.

WASTE MANAGEMENT SECTION 4

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COMPARATIVE EVALUATION OF OIL SPILL TRANSFER SYSTEMS

CHARACTERISTICS OF TRANSFER SYSTEMS	CENTRIFUGAL PUMP	LOBE PUMP	GEAR PUMP	SCREW PUMP	VANE PUMP	FLEXIBLE IMPELLER	SCREW/AUGER PUMP	PROGRESSING CAVITY	PISTON PUMP	DIAPHRAGM PUMP	AIR CONVEYOR	VACUUM TRUCK	PORTABLE VACUUM PUMP	CONVEYOR BELT	SCREW CONVEYOR	WHEELED VEHICLES
HIGH VISCOSITY FLUIDS	1	5	5	5	3	2	5	5	5	3	5	4	4	5	4	5
LOW VISCOSITY FLUIDS	5	2	2	2	3	4	1	3	3	4	5	5	5	1	1	5
TRANSFER RATE	5	2	1	1	3	4	1	2	2	3	4	5	3	2	2	2
DEBRIS TOLERANCE SILT/SAND GRAVEL/PARTICULATE SEAWEED/ STRINGY MATTER	5 5 2	3 2 3	1 1 4	1 1 3	1 1 2	4 2 2	5 5 4	5 3 4	3 2 2	4 3 3	5 5 4	5 5 4	5 4 3	5 5 5	5 4 4	5 5 5
TENDENCY TO EMULSIFY FLUIDS	1	4	3	3	3	3	5	5	3	3	5	5	5	5	5	5
ABILITY TO RUN DRY	5	3	2	1	2	3	4	3	2	5	5	5	5	4	3	-
ABILITY TO OPERATE CONTINUOUSLY	5	3	2	2	2	3	3	3	3	2	3	3	3	3	2	4
SELF PRIMING	1	3	2	2	2	5	1	5	4	4	5	5	5	5	5	-
SUCTION/HEAD	2	3	2	2	3	4	1	5	4	4	5	5	5	5	5	-
BACK PRESSURE/HEAD	1	5	5	5	4	3	4	5	5	2	1	1	1	3	3	-
PORTABILITY	5	3	3	2	4	4	3	2	2	4	-	-	2	1	1	-
EASE OF REPAIR	5	3	2	2	3	4	3	2	3	5	1	1	2	3	2	3
COST	5	3	2	2	3	3	1	2	3	5	1	1	2	2	2	3
COMMENTS	E,J	B	B	B,J	-	F	A	B	B,D	A,C,D	F,G,I	F,G,I	F,G	-	-	G,H,I

KEY TO RATINGS: 5 = BEST 1 = WORST

KEY TO COMMENTS:

- A. NORMALLY REQUIRE REMOTE POWER SOURCES, THUS ARE SAFE AROUND FLAMMABLE FLUIDS
- B. SHOULD HAVE A RELIEF VALVE IN THE OUTLET LINE TO PREVENT BURSTING HOSES
- C. AIR POWERED UNITS TEND TO FREEZE UP IN SUB-=-FREEZING TEMPERATURES
- D. UNITS WITH WORK BALL VALVES ARE DIFFICULT TO FRAME
- E. SOME REMOTELY POWERED TYPES ARE DESIGNED TO FIT IN A TANKERS BUTTERWORTH HATCH
- F. CAN ALSO PUMP AIR AT LOW PRESSURE
- G. TRANSFER IS BATCH WISE RATHER THAN CONTINUOUS
- H. WASTE MUST BE IN SEPARATE CONTAINER FOR EFFICIENT TRANSFER
- I. TRANSPORTABLE WITH ITS OWN PR ME MOVER
- J. HIGH SHEAR ACTION TENDS TO EMULSIFY OIL AND WATER MIXTURES

WASTE MANAGEMENT
SECTION 4

TEXAS STATE APPENDIX

TECHNIQUES FOR OIL/WATER/DEBRIS SEPARATION

The different types of wastes generated during response operations require different disposal techniques. To facilitate the disposal of wastes, they should be separated by type for temporary storage or transport. The table below lists some options that are available to separate oily wastes into liquid and solid components. The table also depicts methods that may be employed to separate free and/or emulsified water from the oily liquid waste.

OILY WASTE SEPARATION

Type Of Material	Separation Techniques
Liquids	
Non-emulsified oils	Gravity separation of free water
Emulsified oils	Emulsion broken to release water by: <ul style="list-style-type: none"> ▪ heat treatment ▪ emulsion breaking chemicals ▪ mixing with sand centrifuge ▪ filter/belt press
Solids	
Oil mixed with sand	Collection of liquid oil leaching from sand during temporary storage Extraction of oil from sand by washing with water or solvent Mechanical sand cleaner Removal of solid oils by sieving
Oil mixed with cobbles, pebbles or shingle	Screening Collection of liquid oil leaching from beach material during temporary storage Mechanical sand/gravel cleaner Extraction of oil from beach material by washing with water or solvent
Oil mixed with wood, plastics, seaweed and sorbents	Screening Collection of liquid oil leaching from debris during temporary storage
Tar balls	Separation from sand by sieving

TECHNIQUES FOR WASTE MINIMIZATION AND DISPOSAL

Crude Oil and Refined Petroleum Products

Crude oil spilled to marine waters, recovered and transported to a production facility or a refinery will be considered a product and will not be subject to waste management regulations. Refined petroleum products that are recovered from marine waters may also be handled as product if they can be used for their originally intended purpose (i.e. fuel, fuel oil, etc.).

There are other avenues by which recovered petroleum may be managed as a material. These approaches include recycling the petroleum through incineration, as fuel, a substitute for raw material feedstock or as an ingredient used in the production of a product (i.e. asphalt). The appropriate State environmental agency should be consulted for more information on these and other management options. Recycling should be a top priority and will be undertaken if at all possible.

Recovered petroleum “products” that are not accepted by a refinery or production facility that can not be recycled must be managed as waste. In order that the appropriate management mechanism is determined for the recovered petroleum, the waste must be analyzed by a State certified laboratory to determine if the waste is hazardous. It is the responsibility of the Responsible Party (RP) to have the waste accurately characterized for proper disposition.

Disposal at Sea of Water Separated From Recovered Oil

Oil recovered at sea typically contains significant amounts of sea water. In order to maintain the efficiency of the skimming process, this water must be separated/decanted from the oil and discharged back to the ocean during recovery operations. Separated sea water typically contains elevated levels of hydrocarbons and thus the discharge of this material may constitute a discharge of a pollutant. This issue is presently being discussed with regulatory agencies to determine if a National Pollution Discharge Elimination System (NPDES) permit, or waiver from the permit is required before separated/decanted water may be discharged back into state waters. The “discharge” of separated/decanted water is recognized by the USCG On-Scene Commander as an integral part of offshore skimming operations and as an excellent waste minimization tool. Therefore the OSC or his/her representative may authorize the discharge of separated/decanted water back into the area of a boom/skimming system outside of State Waters (3 miles). The exception to this will be in the NOAA Marine Sanctuary waters.

Federal law prohibits the discharge of material such as separated water, to marine sanctuaries unless permitted by the Administrator of the sanctuary program.

Contaminated Soil and Debris

Contaminated soil and debris, including organic material, contaminated cleanup equipment (i.e. booms, pompoms, sorbents, etc.) and other contaminated materials that cannot be recycled must be managed as waste. The materials must also be characterized before the appropriate waste management option is determined.

TEXAS STATE APPENDIX

WASTE MANAGEMENT
SECTION 4**Oiled Animal Carcasses**

Oiled animals and carcasses should be collected and turned over to Fish and Wildlife representatives who are responsible for wildlife rehabilitation and collection of carcasses for natural resource damage assessment (NRDA) investigations.

Liquid Waste Handling and Disposal Techniques**Temporary Storage Devices**

- USCG certified tank barges (free oil and water)
- Portable oil field mud tanks (500 gallon up to 500 bbls.)
- Facility waste oil tanks/slop tanks
- 60 barrel to 100 barrel vacuum trucks
- 150 barrel tanker trucks
- Portable "fast tanks" (500 gallon up to 2500 gallon)
- Mud tanks on board offshore supply vessels
- 55 gallon open top drums or tight head drums

Disposal Options

- Reprocess through facility waste oil/water treatment system, API separator, heater treater, etc.
- Transport off-site to a Federal/State approved waste oil processor for recycle/reuse
- Use in Fuel Management Program as burner feed stock
- Ultimate destruction via incineration

Disposal Of Hazardous And Non-Hazardous Solid Waste**Oil Contaminated Solid Waste Profile**

- Oil contaminated sorbent material (pads, booms, sweeps, particulate, etc.)
- Contaminated organic material (peat moss, straw, hay, fiber perl, etc.)
- Shoreline and marsh debris (drift wood, sea-weed, grass, garbage)
- Oily sand and mud
- Oil contaminated rocks, shells and rip-rap used for erosion control
- Oil saturated items such as protective suits, boots, gloves, rope, plastic bags, and rags

Handling and Storage Techniques

- 20 cubic yard roll on/roll off containers (with tarp covers or roller tops)
- DOT approved open top drums (DOT 17c/h)
- Dump trucks (temporary only)
- On-site pits (permitted only)
- Construct temporary lined pits (with Federal/State approval only)
- Dumpsters for non-hazardous debris only (paper, cans, bottles, lunch bags, etc)

TEXAS STATE APPENDIX

WASTE MANAGEMENT
SECTION 4

- 6ml minimum plastic bags with wire ties

Solid Waste Characterization and Profile

- Facility to receive, separate/sort and store solid waste
- Reduce waste volume by shredding, adding absorbent material to stabilize free liquids
- Back-hoe or front-end loader to facilitate segregation activities

Analytical Support

- Pre-qualify local laboratory for waste sample analysis
- Local lab to supply necessary sample equipment and chain of custody forms
- Set up for fast turn-a-rounds on results
- Pre-approve analytical (TCLP, PCB, BTU's, etc.)

RECYCLING OPPORTUNITIES

Personnel can be deployed to remove debris from beach intertidal areas to above the high tide line in order to prevent oiling of stranded debris/trash. It is important to note that such crews are not likely to be certified as required under OSHA 1910.120 and can only perform this task prior to the stranding of oil. A safety/industrial hygiene specialist should be consulted regarding the limitations of these crews and the effective establishment of exclusion zones in the area of beach impact.

Recovered Oil and Oily-Water

In order to maximize skimmer efficiency and effectiveness, water should be decanted with the approval of the Federal OSC and relevant State Agency Representative. Operational standards should be established as soon as skimming is initiated. In federal waters, decanting can be approved through a request to the OSC. In state waters, approval must be secured from the appropriate State agency representative.

Both oil and oily-water recovered from skimming operations should be offloaded to facilities where it can be effectively recycled/managed with established process and treatment streams. Such facilities would include production facilities, terminals, refineries and commercial refineries/reclaimers/recyclers. These facilities can often provide temporary tank storage, when necessary. Oiled debris that is recovered with skimmed oil should be maintained in secure, temporary storage until it is sufficiently characterized for disposal.

Disposal Site Selection

- Contact local disposal facilities for waste acceptance (liquids, solids, sanitary, etc.)
- Ensure State and Federal and Company approvals are in order
- Research transportation requirements
- Analytical results on waste streams available for disposal facility review and approval

TEXAS STATE APPENDIX

WASTE MANAGEMENT
SECTION 4**Free Liquids (Oil and Water)**

- Consider all oil and oil emulsions for possible recycle/reuse
- Research local waste oil recycling firms in area. Ensure State/Federal and Company approvals are in order
- Utilize facility's water stripper units and/or heater treaters to separate oil and water

Oil Absorbent Materials:

Research new technology as it pertains to recycling used oil absorbent material.

- Set up pad wringer stations throughout the spill work site where sorbents are being used
- Sorbent pads can be used up to four to five times before losing their oil absorbing property
- Sorbent booms and sweeps should be double bagged and separated from other solid waste items
- Once a recycling firm has been located, ship direct from spill site to the recycling facility
- Ensure compliance with State and Federal recycling guidelines, if any

Oil Contaminated Sand and Gravel

- Research available commercial sand and gravel cleaners
- Consult Local, State and Federal regulations for any permitting requirements
- Have pre-approved lab set up analytical if required by regulations
- Train shoreline clean-up team not to remove excessive amounts of sand or beach front

Oil Contaminated Debris

- Seek approval from State or Federal representatives on-scene to allow stacking of contaminated debris and pressure washing to remove oil clingage as opposed to hauling off-site for disposal
- Research methods and applications for in-situ bio-degradation in-situ

The Facility will inform the Federal and State On-Scene Coordinators in writing of the name and location of waste disposal sites used to support the response.

All waste generated from an oil spill will be removed from the temporary staging area within 14 days of the completion of all response operations.

A list of Company approved waste disposal facilities is shown in this section.

WASTE MANAGEMENT
SECTION 4

TEXAS STATE APPENDIX

TOXICITY CHARACTERISTICS AND LEVELS

Toxicity Characteristic Contaminants And Regulatory Levels				
EPA hazardous waste number	Contaminant	Chronic toxicity reference level (mg/L)	Basis*	Regulatory level (mg/L) ^t
D004	Arsenic	0.05	MCL	5.0
D005	Barium	1.0	MCL	100.0
D018	Benzene	0.005	MCL	0.5
D006	Cadmium	0.01	MCL	1.0
D019	Carbon tetrachloride	0.005	MCL	0.5
D020	Chlordane	0.0003	RSD	0.03
D021	Chlorobenzene	1	RFD	100.0
D022	Chloroform	0.06	RSD	6.0
D007	Chromium	0.05	MCL	5.0
D023	o-Cresol	2	RFD	200.0 ^a
D024	m-Cresol	2	RFD	200.0 ^a
D025	p-Cresol	2	RFD	200.0 ^a
D026	Cresol	2	RFD	200.0 ^a
D016	2,4-D	0.1	MCL	10.0
D027	1,4-Dichlorobenzene	0.075	MCL	7.5
D028	1,2-Dichloroethane	0.005	MCL	0.5
D029	1,1-Dichloroethylene	0.007	MCL	0.7
D030	2,4-Dinitrotoluene	0.0005	RSD	0.13 ^b
D012	Endrin	0.0002	MCL	0.02
D031	Heptachlor (and its hydroxide)	0.00008	RSD	0.008
D032	Hexachlorobenzene	0.0002	RSD	0.13 ^b
D033	Hexachloro-1,3-butadiene	0.005	RSD	0.5
D034	Hexachloroethane	0.03	RSD	3.0
D008	Lead	0.05	MCL	5.0
D013	Lindane	0.004	MCL	0.4
D009	Mercury	0.002	MCL	0.2
D014	Methoxychlor	0.1	MCL	10.0
D035	Methyl ethyl ketone	2	RFD	200.0
D036	Nitrobenzene	0.02	RFD	2.0
D037	Pentachlorophenol	1	RFD	100.0
D038	Pyridine	0.04	RFD	5.0 ^b
D010	Selenium	0.01	MCL	1.0
D011	Silver	0.05	MCL	5.0
D039	Tetrachloroethylene	0.007	RSD	0.7
D015	Toxaphene	0.005	MCL	0.5
D040	Trichloroethylene	0.005	MCL	0.5
D041	2,4,5-Trichlorophenol	4	RFD	400.0
D042	2,4,6-Trichlorophenol	0.02	RSD	2.0
D017	2,4,5-TP (Silvex)	0.01	MCL	1.0
D043	Vinyl chloride	0.002	MCL	0.2

DISPERSANTS & IN SITU BURNING

SECTION 5 DISPERSANTS & IN SITU BURNING

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PROPERTIES AND INVENTORY

Chemical dispersants may potentially be used for oil-spill mitigation. The key components of chemical dispersants are surface-active agents (surfactants), which are molecules that have both water-soluble (hydrophilic) and oil-soluble (hydrophobic) ends. These molecules, when applied to an oil spill, orient themselves at the oil/water interface such that the hydrophilic ends of the molecules are in the water and the hydrophobic ends are in the oil. The result is a reduction of interfacial tension between the oil and water. This action reduces the cohesiveness of the oil slick and, with agitation, finely dispersed oil droplets (ranging in size, depending on the effectiveness of the surfactant formulation, from above 10 microns to 0.5 mm in diameter) are formed in the near-surface water. The hydrophilic surfactant groups prevent droplet recoalescence.

Chemical agents fall into two general categories: dispersing agents, that disperse or emulsify oil; and, surface collecting agents, which are surface-film-forming chemicals for controlling oil layer thickness (i.e., spread).

Corexit 9527, a water-based concentrate, is currently stocked in quantity by Marine Spill Response Corporation (MSRC) and will be the dispersant used if approval is received by the Federal On-Scene Coordinator.

In the event that MSRC dispersant inventories become depleted, MSRC may call upon Exxon Chemical Company for additional supplies. Corexit 9527 should be available within 24 hours from notification and transported to the designated staging area(s) by air, boat, truck.

Toxicity Data

In selecting a specific dispersant to use on an oil slick, three factors need to be equally considered:

- Toxicity of dispersant
- The effectiveness of a specific dispersant on the type of oil spilled
- The availability of sufficient quantities of dispersant to effectively disperse the oil.

Corexit 9527 is a highly concentrated, biodegradable dispersant with a unique "self-mix" property. A summary of its physical properties is provided below:

- Specific gravity at 60°F: 0.995
- Density at 60°F: 8.29 lb/gal
- Flash point: 162°F
- Pour point: -45°F
- Viscosity at 100°F: 22 cst
- Viscosity at 150°F: 9 cst
- Solubility in fresh water: soluble
- Solubility in Hydrocarbon solvents: soluble
- Solubility in sea water: slightly soluble

TEXAS STATE APPENDIX**DISPERSANTS & IN SITU BURNING
SECTION 5**

Manufacturer: Exxon Chemical Co.
8230 Stedman Street
Houston, Texas 77028
(713) 671-8614

Many oils, before they have a chance to weather, are readily dispersable under most conditions. Oils with a high viscosity or high pour point, may be difficult to disperse under some conditions; especially if the temperature is relatively low. The following is a dispersability rating scheme for crude oil and products based on consideration of API gravity and pour point:

API Gravity	Pour Point	Description	Dispersability Factor
over 45		Very light weight material. No need to disperse. Oil will disperse rapidly.	1
35 - 45	under 41 F	Light weight material. Relatively non-persistent. Easily dispersed	2L
35 - 45	over 41 F	Light weight material. Relatively non-persistent Probably difficult to disperse if water temperature is below pour point of material.	2H
17 - 34	under 41 F	Medium weight material. Fairly persistent. Easily dispersed if treated promptly.	3H
17 - 34	over 41 F	Medium weight material. Fairly persistent. Probably difficult to disperse if water temperature is below pour point of material.	3H
under 17		Probably difficult or impossible to disperse	4

This classification scheme is based on the assumption that less than 24-hours has elapsed from the time of the spill. The oil may be difficult to disperse if more than 24-hours has elapsed.

The effectiveness of any particular dispersant application is dependent upon a combination of factors including oil type and condition, dispersant type and dosage, mixing energy, and temperature. Typically, dispersants are most effective on the less persistent (more volatile) oils and less effective on the more persistent oils. Approximately 95 percent of the oil produced in the Gulf of Mexico has the characteristics of South Louisiana crude which is a light, very low asphaltene oil.

Dispersants contain surface active agents which reduce the oil-to-water interfacial tension. In the presence of energy supplied by natural or mechanical mixing or in some cases by molecular diffusion, formation of oil droplets is enhanced. Coatings on each oil droplet prevent their reforming. Dispersant formulations may be divided into three basic types: those which contain surface active agents carried in a hydrocarbon (hydrocarbon base) solvent, those which contain surface active agents carried in an aqueous solvent (commonly water), and those which contain high concentrations of active ingredients in relation to the carrier (concentrate).

Dispersant Consultants

To use a chemical for any kind of oil spill control, you must use proper application techniques and understand the chemical's properties. Rely on the expertise and experience of oil spill chemicals response consultants listed below:

Jim O'Brien, OOPS Inc.
645 Codifer Street
Slidell, LA 70458
Phone: 504-781-0804

Gordon P. Lindblom
14351 Carolcrest
Houston, TX 77079
Phone: 281-497-1092

John P. Fraser
23 Hibury Drive
Houston, TX 77024
713-780-9224

DESCRIPTION AND LOCATION OF APPLICATION EQUIPMENT

Dispersants may be applied by boat, aircraft or hand sprayer. Boat application is limited to small spills or those within a few miles of shore. Aerial spraying is the preferred method because it offers rapid response, coverage of large areas per unit of time, good control of treatment rates, optimum use of dispersants and better evaluation of treatment results than is possible from boats. Regardless of the method used, the application system must deliver the proper dosage of dispersant in a uniform spray of droplets.

Aircraft spraying would be used to insure a rapid application over a large area, under rough sea conditions and remote locations. Airborne Support in Houma, LA, provides 24 hour access to aircraft designed and maintained in a ready state for aerial dispersant application. Dispersant preapproval applies to only aerial application.

A secondary application method would be a boat sprayer system to apply "low mixing energy" dispersants from the bow of a work boat on fresh, low viscosity oils. Use of this system will require consideration of auxiliary application equipment and personnel needs, mobilization instructions and optimization charts that are discussed in the referenced CGA manuals.

The planning checklist in this section provides a quick reference on the types of spill incidents that might warrant the use of dispersants, a description of their application, and a checklist for planning, conducting and servicing the spraying operation.

APPLICATION METHOD

The method for dispersant application has been taken from the EPA NCP Product Schedule Notebook within the Region VI Oil and Hazardous Substances Pollution Contingency Plan.

- The usual application methods are by aircraft (Corexit 9527 is applied undiluted during aerial spray), hand-held equipment (i.e., spray cans of "back-pack" sprayers) or workboats (fitted with spray booms mounted ahead of the bow wake as forward as possible.)
- Corexit 9527 should be applied to the floating oil, not to the water around it.

- When applied from workboats, systems using a portable fire pump, or a fixed fire-fighting system is best. This should operate at approximately 40-80 psi depending on the requirements of the system used. This system should deliver sea water at a rate adequate to maintain the spray pattern from the nozzles at the operating velocity of the vessel without blowing away before reaching the oil.

Alternatively, the chemical can be fed to the sea water stream with a small metering pump. A treatment rate of approximately 5 gallons per acre is recommended. The concentration of chemical required is calculated utilizing the pump capacity, the boom swath width, the boat speed, and the thickness of the slick or the amount of oil to be treated over a given area.

Unless land areas are immediately threatened, neither agitation nor chemical concentration should necessarily be increased simply to cause rapid disappearance of the oil. Nozzles for spray booms should produce droplets, (not a fog or mist,) in a uniform flat spray pattern. Atomizing nozzles are not recommended.

Concentration/Application Rate:

- During boat application, using a metering pump for chemical addition, Corexit 9527 will usually be added to the sea water stream to give a concentration of 3% to 10%.
- For slicks formed by more viscous crude or petroleum products, a hydrocarbon based (kerosene or other aliphatic solvent) dispersant is required. In such a case, one part of Corexit 9527 may be diluted with five or more parts of solvent.
- The required dosage of Corexit 9527 is usually 3 to 7 gallons per acre, regardless of the method of application. Undiluted dispersant is used in aerial spraying.

Conditions For Use

- Corexit 9527 is not recommended for use on spills on fresh water. It can be used most effectively on spills on salt water of about 1% salt (10,000 ppm salinity) or greater.
- Water temperature does not affect the dispersant's action, but the effect of very low temperatures (in increasing viscosity of the oil) could make dispersion more difficult.
- Weathering of oil can have a negative affect on dispersability, but the amount of time to reach that point can vary widely from a few days to more than a month depending on climatic conditions.

CONDITIONAL USE

The decision to use dispersants must be made soon after the spill occurs. Weathering of oil will increase the viscosity and decrease the capability of chemically dispersing the oil. Factors to be considered in making this decision are 1) oil type and properties, 2) environmental conditions, 3) the availability of dispersant and application equipment and 4) the probable fate of the oil without treatment.

In some cases, chemical dispersants may be the best method to control a slick. In January, 1995 dispersant preapproval was granted by the Federal Region VI Regional Response Team (RRT) to the On-Scene Coordinator (OSC) in offshore waters of Texas and Louisiana that are:

- No less than 10 meters in depth; and
- at least 3 nautical miles from the nearest shoreline; and
- excludes the Flower Gardens National Marine Sanctuary

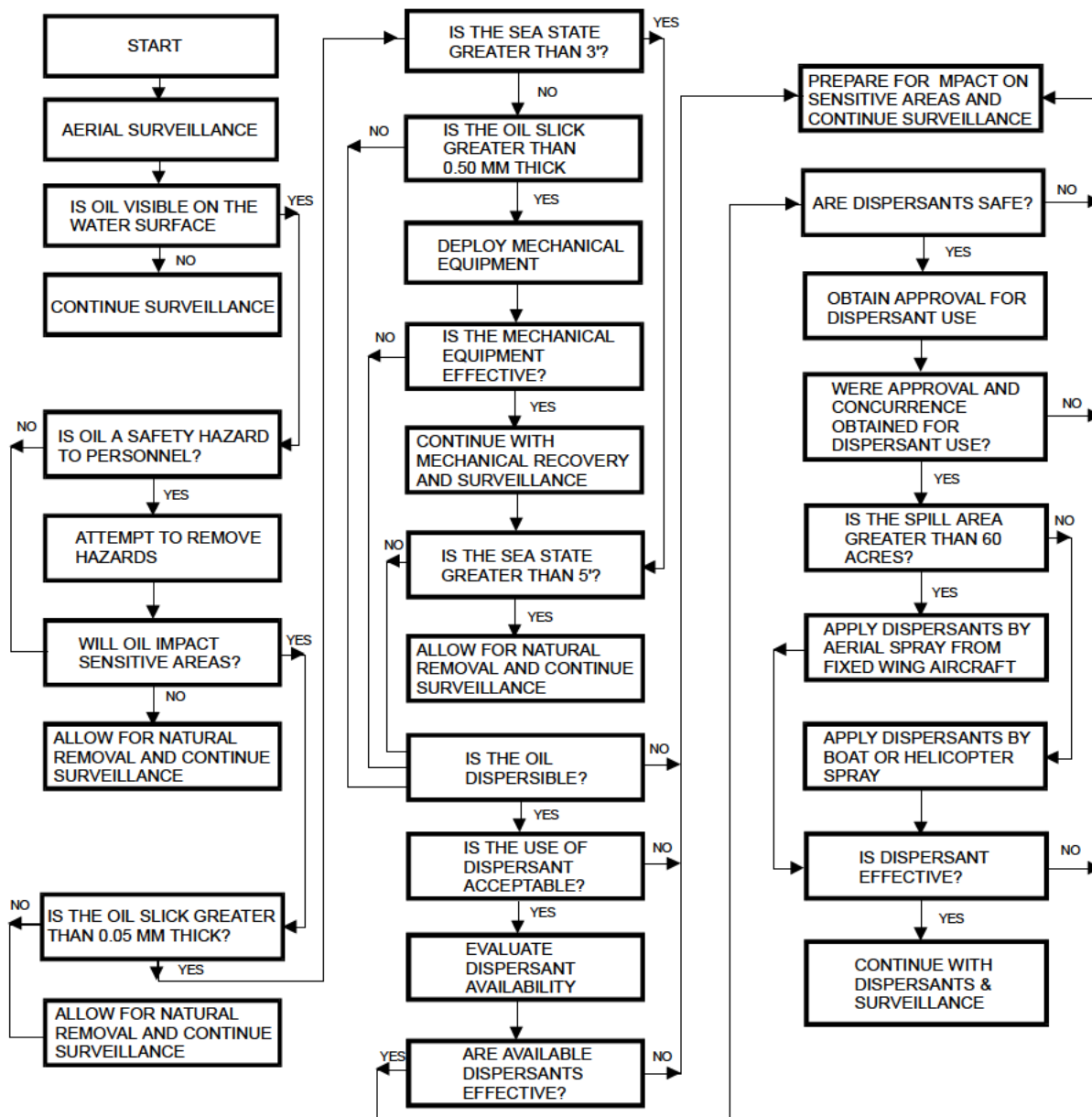
The preapproval is for aerial application only. Only dispersants listed in the most recent NCP Product Schedule may be used. Corexit 9527 is not listed in the NCP. Maximum dispersant spray coverage of suitable slick areas is for only one complete treatment. Suitable slick areas are those having visibly thick oil, described as black or brown and not a sheen. Suitable coverage may mean more than one sortie to complete. CGA has established a contractual arrangement with Airborne Support Inc. (ASI) to provide aerial application.

Approval Guidelines

The Facility incorporates applicable sections of the "RRT VI FOSC Preapproved Dispersant Use Manual", approved January 10, 1995 Version 1.0 or the most current version by reference. The Facility intends to follow the procedures outlined within that Manual that pertain to actions to be undertaken by the responsible party in the event of a spill. The Oil Spill Response Coordinator is responsible for activating dispersant use preapproval procedures as soon as possible during the response effort. The HSE/Planning coordinator is responsible for collecting and submitting the necessary information. The Oil Spill Response Coordinator alerts Logistics Coordinator, CGA and ASI, interacts with the Coast Guard representative until a decision has been reached and notifies the Cleanup Supervisor to begin field application when approval is received. The Dispersant Use Activation System, as diagramed in this section, is designed to allow an initial spray to begin within 6 hours of the spill event, weather and daylight permitting. The FOSC Dispersant Use Flow Chart is attached to provide insight into the conditions that would warrant dispersant application.

A blank Dispersant Preapproval Initial Call Checklist is provided in this Section. The spill and on-scene conditions will be obtained by the HSE/Planning Coordinator and provided to the RRT via the FOSC. Information on API gravity, pour point, crude type will be on file in advance of the spill.

DISPERSANT USE DECISION TREE



TEXAS STATE APPENDIX

DISPERSANTS & IN SITU BURNING
SECTION 5

DISPERSANT PREAPPROVAL INITIAL CALL CHECKLIST

CALLER

TIME OF CALL: DATE: ____/____/____ TIME: ____CT
MONTH DAY YEAR 24-HOUR CLOCK

NAME OF CALLER: _____

TELEPHONE #: (____) _____

NAME OF ALTERNATE CONTACT: _____

TELEPHONE #: (____) _____

COMPANY NAME: _____

Address:

Street: _____

City/State/Zip Code: _____

SPILL

INITIAL TIME OF SPILL:	DATE: ____/____/____	TIME: ____CT
	MONTH DAY YEAR	24 HOUR CLOCK
LOCATION OF SPILL:	LAT: ____N	
	LON: ____W	

BLOCK NAME: _____ BLOCK NUMBER: _____

TYPE OF RELEASE: [INSTANTANEOUS () OR CONTINUOUS FLOW ()]

OIL: NAME: _____
API: _____ POUR POINT: _____ (C ° OR F °)
CIRCLE ONE

AMOUNT SPILLED: _____ [GAL. OR BBL (42 GAL/BBL)]
FLOW RATE IF CONTINUOUS FLOW (EST MATE): _____

ON-SCENE WEATHER

(NOTE: IF NOT AVAILABLE CONTACT SSC FOR WEATHER)

WIND (Direction From, Degrees): _____	WIND SPEED: _____ KNOTS
SURFACE CURRENT (DIRECTION TOWARD, DEGREES): _____	(SPEED): _____ KNOTS
VISIBILITY: _____ NAUTICAL MILES (NEED MIN OF 3 NM)	
CEILING: _____ FEET (NEED MINIMUM OF 1,000 FEET)	
DISPERSANT SPRAY OPERATOR:	
IS SPILLER LOOP, OR A MEMBER OF MIRG OR CLEAN GULF ASSOCIATES? (YES _____ NO _____)	
IF YES, DOES SPILLER INTEND TO ACTIVATE THE STANDING CONTRACT WITH AIRBORNE SUPPORT COMPANY? (YES _____ NO _____)	
DEDICATED TO DISPERSANT OPERATIONS IN GULF OF MEXICO:	
COMPANY NAME: AIRBORNE SUPPORT COMPANY P.O. BOX 497 BOURG, LOUISIANA 70343-0497	RESOURCES: (2) DC-3/ (1) DC-4 1000 GAL / 2000 GAL. DISP. DISPERSANT = COREXIT 9527
IF "NO" TO EITHER OF THE ABOVE QUESTIONS, PROVIDE THE FOLLOWING INFORMATION:	
DISPERSANT SPRAY CONTRACTOR:	
NAME: _____	
ADDRESS: _____	
STREET: _____	
CITY/STATE/ZIP CODE : _____	
TELEPHONE : (____) _____	
DISPERSANT:	NAME: _____
	QUANTITY AVAILABLE: _____
AIRCRAFT:	TYPE: _____
	MULTI-ENGINE () OR SINGLE ENGINE()
	DISPERSANT LOAD CAPACITY (GAL): _____
TIME UNTIL FIRST DISPERSANT DROP ON THE OIL (HOURS) = _____	

TEXAS STATE APPENDIX

DISPERSANTS & IN SITU BURNING
SECTION 5**DISPERSANT USE REQUEST FOR NON PRE-AUTHORIZED AREA****Potential Responsible Party**

Name of Company _____
 Address _____
 Individual to contact (Qualified Individual)
 Phone Number _____ Fax Number _____
 Individual to contact for Dispersant Use
 Phone Number _____ Fax Number _____
 Signature _____

Spill Data

Circumstances (Fire, Coll, Etc.) _____ Date/Time of Spill _____
 Spill Location _____
 Volume Released _____ Type of Release _____
 Potential Volume to be Released _____ (continuous, intermittent, etc.) _____

Characteristics of Spilled Oil

Oil type/Name _____ Spec Grav _____ Viscosity _____
 Pour Point _____ Flash Point _____

Weather and Water Conditions/Forecasts

Air Temp _____ Wind Speed _____ Wind Direction _____ Sea Condition _____
 Water Temp _____ Water Salinity _____ Water Direction _____ Mixed Layer Depth _____
 Tide Information _____
 Current Information _____

Oil Trajectory Information

Source of Trajectory Information _____

48 Hour Surface Oil Forecast

Surface area of slick _____
 Expected landfall _____

48 Hour Dispersed Oil Forecast

Oil movement in water column _____
 Surface movement/landfall _____

Shorelines and/or Sensitive Environments at Risk

Attach Map showing 1) Pre-authorized zones (if any), 2) spill location, 3) estimated trajectory path of undispersed oil, 4) proposed area of dispersant use, 5) estimated trajectory path of dispersed oil.

Environments at Risk**Area and Estimated Time of Impact****Dispersed Treated Spill****Untreated Spill**

Environments at Risk	Area and Estimated Time of Impact	Dispersed Treated Spill	Untreated Spill
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

TEXAS STATE APPENDIX**DISPERSANTS & IN SITU BURNING
SECTION 5****DISPERSANT USE REQUEST FOR NON PRE-AUTHORIZED AREA****Characteristics of Proposed Dispersant**

Dispersant name _____

Manufacturer _____

Location of staging area _____

Amount available (gal) at staging area at 2 hrs _____ 4 hrs _____ 8 hrs _____ 24 hrs _____ 48 hrs _____

Type of containers _____

Applicability on present oil _____

Is dispersant on EPA and applicable state acceptance list: Yes _____ No _____

Proposed application methods and rates _____

Expected dispersant effectiveness under existing conditions (% of amount dispersed vs amount treated) _____

Dispersant Equipment

Type of equipment (boat, helicopter, fixed wing aircraft) _____

Name of company _____

Location of company _____

Availability of specific equipment _____

Schedule of the dispersant operation _____

Monitoring

Identify method of effectiveness monitoring _____

When will monitoring start? _____

Additional Comments

COREXIT MSDS

FIGURE F-4
COREXIT MSDS

**NALCO/EXXON
ENERGY CHEMICALS, L.P.**

MATERIAL SAFETY DATA SHEET

PRODUCT

EC9527A COREXIT 9527

Emergency Telephone Number
Medical (800) 462-5378 (24 hours) (800) I-M-ALERT

SECTION 01 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: EC9527A COREXIT 9527

DESCRIPTION: A blend of oxyalkylate polymers, organic sulfonic acid salt, substituted fatty ester, and glycol ether

NFPA 704M/HMIS RATING 2/2 HEALTH 2/2 FLAMMABILITY 0/0 REACTIVITY 0 OTHER
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION 02 COMPOSITION AND INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 15 for the nature of the hazard(s).

INGREDIENT(S)	CAS #	APPROX. %
2-Butoxyethanol	111-76-2	20-40

SECTION 03 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING! Causes irritation to skin and eyes. Combustible. May be harmful if inhaled, swallowed or absorbed through the skin. Avoid prolonged or repeated breathing of vapor. Do not get in eyes, on skin, or on clothing. Wear goggles and face shield when handling. Use with adequate ventilation. Do not take internally. Keep away from heat and open flame. Keep container closed when not in use.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin, Inhalation

EYE CONTACT: Can cause moderate to severe irritation.

SKIN CONTACT: May cause irritation with prolonged contact.
Can be harmful if absorbed.

INGESTION: Can cause central nervous system depression, nausea, dizziness, vomiting or unconsciousness depending on the length of exposure and on the first aid action given.
Can cause liver, kidney damage.

INHALATION: May cause red blood cell hemolysis.
May cause irritation to the respiratory tract and lungs.

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NALCO/EXXON ENERGY CHEMICALS, L.P.

P.O. BOX 87 • Sugar Land, Texas 77497-0087 • (281) 263-7000



**NALCO/EXXON
ENERGY CHEMICALS, L.P.**

MATERIAL SAFETY DATA SHEET

PRODUCT

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SYMPTOMS OF EXPOSURE:

ACUTE: Inhalation of high concentrations of 2-butoxyethanol can cause nausea, dizziness, vomiting, stupor or unconsciousness.

CHRONIC: Repeated or prolonged exposure to 2-butoxyethanol can result in injury to liver, kidney or red blood cells (hemolysis).

Prolonged skin contact with oxyalkylated organic ester may cause dermatitis.

AGGRAVATION OF EXISTING CONDITIONS: Skin contact may aggravate an existing dermatitis.

SECTION 04 FIRST AID INFORMATION

EYES: Immediately flush with water for at least 15 minutes while holding eyelids open. Call a physician at once.
SKIN: Wash thoroughly with soap and rinse with water. Call a physician.
INGESTION: Induce vomiting. Give water. Call a physician.
INHALATION: Remove to fresh air. Treat symptoms. Call a physician.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

SECTION 05 FIRE FIGHTING MEASURES

FLASH POINT: 163 Degrees F (TCC)

UEL 10.6% LEL 1.1%

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

UNUSUAL FIRE AND EXPLOSION HAZARD: Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to a rupture.

SECTION 06 ACCIDENTAL RELEASE MEASURES

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (800) I-M-ALERT or (800) 462-5378.

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SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 15.

Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 15.

For large indoor spills, evacuate employees and ventilate area. Those responsible for control and recovery should wear the protective equipment specified in Section 8.

SECTION 07 HANDLING AND STORAGE

Storage : Keep container closed when not in use.

SECTION 08 EXPOSURE CONTROLS AND PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use either a chemical cartridge respirator with a black cartridge or supplied air.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.

VENTILATION: General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, mists or aerosols may be released.

PROTECTIVE EQUIPMENT: Wear impermeable gloves, apron and chemical splash goggles. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton and butyl (compatibility studies have not been performed). A full slicker suit is recommended if gross exposure is possible.

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

HUMAN EXPOSURE CHARACTERIZATION: Based on Nalco's recommended product application and our recommended personal protective equipment, the potential human exposure is: MODERATE.

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SECTION 09 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Clear to slightly hazy amber
 FORM: Liquid
 ODOR: Mild
 DENSITY: 8.2-8.5 lbs/gal.
 SOLUBILITY IN WATER: Soluble
 SPECIFIC GRAVITY: 0.98-1.02 @ 60 Degrees F
 VISCOSITY: 160 cst @ 32 Degrees F,
 65 cst @ 60 Degrees F,
 22 cst @ 100 Degrees F
 POUR POINT: Less than -40 Degrees F
 BOILING POINT: 340 Degrees F
 FLASH POINT: 163 Degrees F (TCC)
 VAPOR PRESSURE: Less than 5 mm Hg
 (Less than 0.1 psi) @ 100 Degrees F ASTM D-445
 EVAPORATION RATE
 (BuAc = 1): 0.1

NOTE: These physical properties are typical values for this product.

SECTION 10 STABILITY AND REACTIVITY

INCOMPATIBILITY: Avoid contact with strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

STORAGE: Prevent contact with zinc, magnesium, and galvanized metals.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO₂, may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

SECTION 11 TOXICOLOGICAL INFORMATION

TOXICITY STUDIES: Toxicity studies have been conducted on this product along with toxicity studies of the ingredient(s) in Section 2. The results are shown below.

ACUTE ORAL TOXICITY (ALBINO RATS):

2-Butoxyethanol LE50 = 470 mg/kg

ACUTE DERMAL TOXICITY (ALBINO RABBITS):

2-Butoxyethanol LE50 = 222 mg/kg

Product LE50 = Greater than 1,000 mg/kg

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ACUTE INHALATION TOXICITY (ALBINO RATS):
2-Butoxyethanol LC50 = 700 ppm (7-hour exposure)

SECTION 12 ECOLOGICAL INFORMATION

If released into the environment, see CERCLA in Section 15.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous liquid waste, it should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. A non-hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

SECTION 14 TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. THIS PRODUCT IS REGULATED IN THE U.S. ONLY WHEN SHIPPED IN CONTAINERS EXCEEDING 119 GALLONS OR 882 POUNDS CAPACITY OR WHEN THE PACKAGE EXCEEDS THE REPORTABLE QUANTITY. TYPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

ALL TRANSPORTATION MODES : COMBUSTIBLE LIQUID, N.O.S.
(UNLESS SPECIFIED BELOW)

AIR TRANSPORTATION : PRODUCT IS NOT REGULATED
(IATA/ICAO) DURING TRANSPORTATION

MARINE TRANSPORTATION : PRODUCT IS NOT REGULATED
(IMDG/IMO) DURING TRANSPORTATION

UN/ID NO : NA 1993
HAZARD CLASS - PRIMARY : 3 - COMBUSTIBLE LIQUID
PACKING GROUP : III
IMDG PAGE NO : N/A
IATA PACKING INSTRUCTION : CARGO: N/A
IATA CARGO AIRCRAFT LIMIT : NO LIMIT (MAX NET QUANTITY PER PACKAGE)
FLASH POINT : 163 F 72.7 C

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TECHNICAL NAME(S) : GLYCOL ETHER
 RQ LBS (PER PACKAGE) : NONE
 RQ COMPONENT(S) : NONE

SECTION 15 REGULATORY INFORMATION

The following regulations apply to this product.

FEDERAL REGULATIONS:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

2-Butoxyethanol - Irritant, systemic effects, combustible

2-Butoxyethanol = TWA 25 ppm, 121 mg/m3 (skin) ACGIH/TLV

2-Butoxyethanol = TWA 25 ppm, 120 mg/m3 (skin) OSHA/PEL

CERCLA/SUPERFUND, 40 CFR 117, 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard
 XX Delayed (chronic) health hazard
 XX Fire hazard
 -- Sudden release of pressure hazard
 -- Reactive hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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MATERIAL SAFETY DATA SHEET**PRODUCT****EC9527A COREXIT 9527**

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SECTION 13 - LIST OF TOXIC CHEMICALS (40 CFR 372):

This product contains the following ingredient(s), (with CAS # and % range) which appear(s) on the List of Toxic Chemicals.

Glycol ethers 20-40 No CAS #

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:
 Consult Section 13 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15/ formerly Sec. 307, 40 CFR 116/formerly Sec. 311:
 None of the ingredients are specifically listed.

CLEAN AIR ACT, Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amendments), Sec. 611 (40 CFR 82, CLASS I and II Ozone depleting substances):
 This product contains the following ingredients covered by the Clean Air Act:

2-Butoxyethanol - Section 111
 Glycol ethers (2-Butoxyethanol) - Section 112

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:
 This product does not contain any chemicals which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:
 This product does not contain ingredients listed on the Michigan Critical Materials Register.

STATE RIGHT TO KNOW LAWS:
 The following ingredient(s) are disclosed for compliance with State Right To Know Laws:

2-Butoxyethanol 111-76-2

INTERNATIONAL REGULATIONS:

This is a WHMIS controlled product under The House of Commons of Canada Bill C-70 (Class D2B and Class B3). The product contains the following substance(s), from the Ingredient Disclosure List or has been evaluated based on its

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toxicological properties, to contain the following hazardous ingredient(s):

Chemical Name	CAS #	% Concentration Range
2-Butoxyethanol	111-76-2	20-40

SECTION 16 OTHER INFORMATION

Internal number P102962

SECTION 17 RISK CHARACTERIZATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

- * The human risk is: MODERATE.
- * The environmental risk is: LOW.

Any use inconsistent with Nalco's recommendations may affect our risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

SECTION 18 REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (CD-ROM version), Micromedex, Inc., Englewood, CO.

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IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (CD-ROM version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA).

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, Ohio (CD-ROM version), Micromedex, Inc., Englewood, CO.

Shepard's Catalog of Teratogenic Agents (CD-ROM version), Micromedex, Inc., Englewood, CO.

Suspect Chemicals Sourcebook (a guide to industrial chemicals covered under major regulatory and advisory programs), Roytech Publications (a Division of Ariel Corporation), Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, Washington (CD-ROM version), Micromedex, Inc., Englewood, CO.

PREPARED BY: William S. Utley, PhD., DABT, Manager, Product Safety
DATE CHANGED: 11/06/1997 DATE PRINTED: 03/28/1999

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NALCO/EXXON ENERGY CHEMICALS, L.P.

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PRODUCT INFORMATION**EC 9527A Corexit Oil Dispersant Concentrate**

The first consideration when an oil spill occurs is its containment and physical removal. In many accidents at sea, however, dispersion of the oil slick by use of an efficient and safe dispersant chemical may be the only effective action that can be taken.

While conventional dispersant formulations have performed well on many oil spills at sea, they have often required considerable mixing energy after application of the chemical in order to promote oil droplet formation.

EC 9527A COREXIT Oil Dispersant Concentrate is a highly concentrated new formulation with a unique “self-mix” property that offers maximum versatility in treating any oil slick on salt water. Properly used, it causes rapid, complete dispersion of oil films of salt or brackish water with minimum mixing requirements. The normal motion of the sea is usually adequate. (COREXIT 9527 is not formulated for use on spills on fresh water.)

EC 9527A COREXIT can be used with all types of application equipment and may be immediately adapted to meet local requirements in dispersing oil slicks. It is effective on a wide range of petroleum products. Including viscous crudes and fuel oils. Depending on the type of oil, one part of COREXIT 9527 will usually treat 30 to 60 parts of oil. With particularly efficient application procedures, as much as 100 parts of oil have been treated.

As with any dispersant, EC 9527A COREXIT should be applied to the floating oil, not to the water around it. Best results are always obtained with dispersants if treatment is begun early.

Prior regulatory approval may be required for any application of this product.

Application Techniques

In addition to selection of the most effective dispersant, the successful dispersion of an oil slick requires the availability and use of proper equipment and carefully planned application procedures.

EC 9527A COREXIT Oil Dispersant Concentrate is usually diluted before or during use, although it may be used as supplied under certain circumstances, such as in aerial spraying. If equipment for dilution during use is not available, pre-use dilution may be required.

The product is soluble in both fresh water and hydrocarbon solvents. It is not completely soluble in salt water. (This desirable property enhances its action as an oil dispersant at sea.) If salt-water dilutions are made long before use, active ingredients may concentrate near the bottom of the container, and agitation will be required during use. This does not occur during the education of the chemical into seawater.

EC 9527A COREXIT may also be applied by eduction into a fixed fire-hose system on board a tug or workboat. The dose should be carefully regulated, since most fire systems have very large capacities. Most often a seawater bleed should be inserted before the point of chemical entry. Also, it is important to attempt to maximize coverage by directing the hose stream at about 45 degrees upward. Direct high-pressure hosing will often be unsuccessful because the active surfactants are driven through the slick into the water without an opportunity to attach to the oil.

Helicopter/Airplane Spraying

Aircraft provide the most rapid method of applying dispersant to an oil spill. For aerial spraying EC 9527A COREXIT is used undiluted. A treatment rate of about 5 USG per acre is recommended, but this may need adjustment, depending on the type of oil and the thickness of the slick. A variety of fixed-wing aircraft can be used for spraying over a large area. These range from very large aircraft equipped for carrying 100 to over 4,000 U.S. gallons of chemical.

The spray nozzles used are most critical, since droplet size must be controlled. Many nozzles used for agricultural spraying are of low capacity and produce too fine a spray (actually a mist or fog) which is not desirable dose levels cannot be overemphasized.

Calculations similar to those mentioned previously for workboat spraying should also be made for aerial application. Consideration must be given to: the speed and altitude of the plane: the capacity of the chemical pumps: the pressure at which they operate: the effective swath width obtained: and any windage losses. Flights should be made directly into the wind for best results.

Helicopters may also be employed in aerial spraying, either with fixed spray booms, or by attachment of a slung-bucket system equipped with spray booms. If a bucket is used, it should be stabilized against rotating and swaying.

Tests have shown that an altitude of 30 to 50 feet is optimum for both helicopters and fixed-wing aircraft. Speed will vary with aircraft type, spray boom width, and pump capacity.

Post-Spill Cleanup

EC 9527A COREXIT Oil Dispersant Concentrate can be used as an aid in cleaning oil from small areas such as rocks, docks, seawalls and the like after oil has come ashore. It should be used in either fresh water or hydrocarbon solution of about 1 to 2%. Large areas are best cleaned with COREXIT 7664. EC 9527A COREXIT is not recommended for use as a beach cleaner.

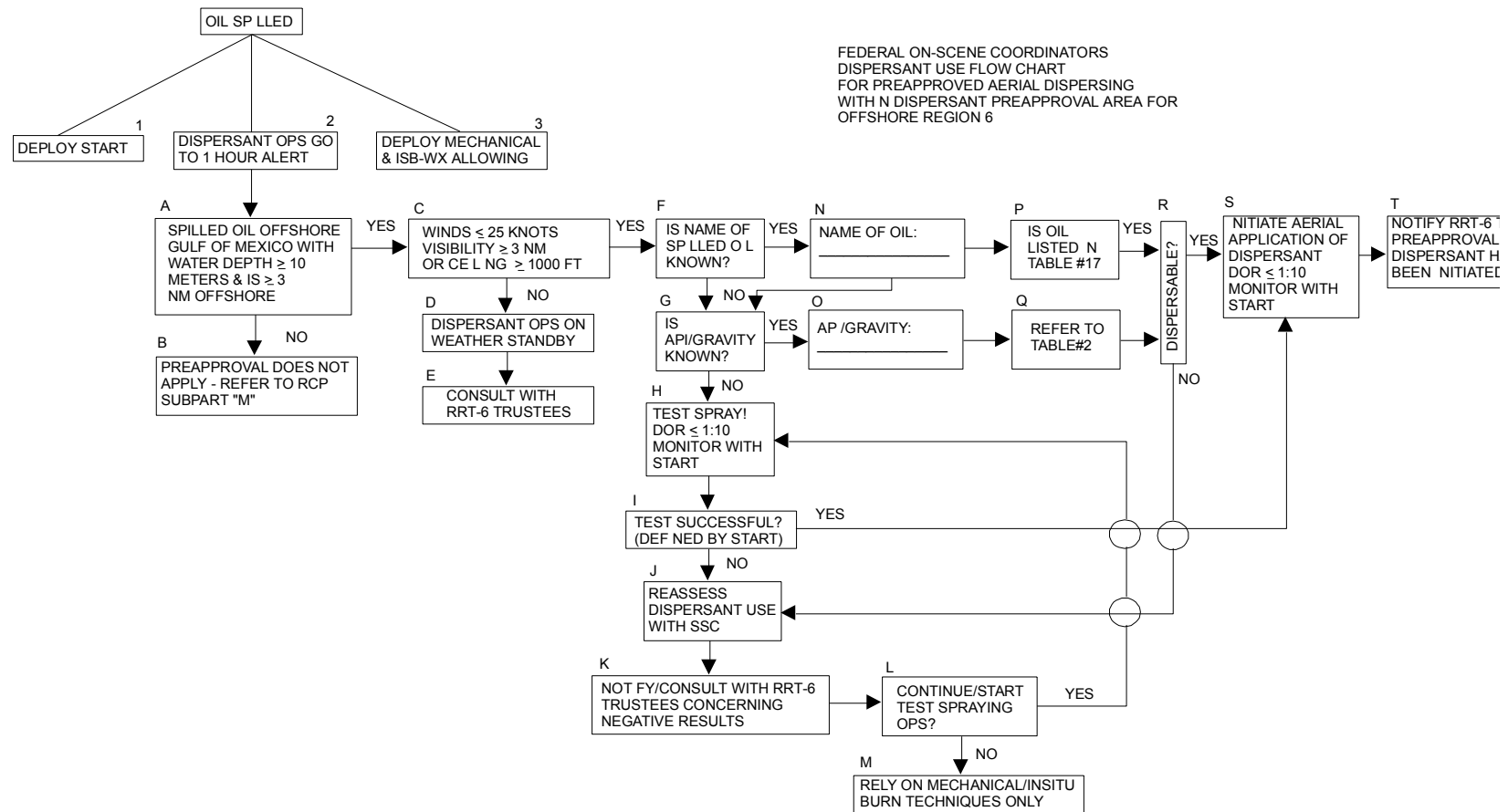
Typical Physical Properties

Specific Gravity, @60°F/15.6°C	0.995
Density, Lb/Gal @60°F/15.6°C.....	8.29
Flash Point, SETA CC, °F/°C.....	162/72
Pour Point, °F/°C	-45/-43
Viscosities	
cSt @60°F/15.6°C.....	60
cSt @100°F/37.7°C.....	22
cSt @ 150°F/65.6°C.....	9
SUS @ 100°F/37.7°C.....	108
Solubility: Soluble in fresh water and in hydrocarbon solvents. Dispersible in salt water	

TEXAS STATE APPENDIX

DISPERSANTS & IN SITU BURNING
SECTION 5

FOSC DISPERSANT USE FLOW CHART



DISPERSANTS & IN SITU BURNING
SECTION 5

TEXAS STATE APPENDIX**DISPERSANT INVENTORY****Aircraft and Spray Systems – Worldwide**

Normal Operating Area	Organization(S) & Phone Numbers	Aircraft Provider	Aircraft Type & Spray Systems	Comments
USA – West Coast	Clean Seas; Carpinteria, CA; 805-684-3838 Clean Bay; Concord, CA; 510-685-2800 CCW; Long Beach, CA; 310-432-1415 Clean Sound; Edmonds, WA; 206-744-0948	Air Response Kirk Miles Mesa, AZ 602-246-3336	DC-4 Cap. 2,000 gal.	Can reach Hawaii if weather acceptable and crew available.
USA – Gulf of Mexico and Florida	MIRG; New Orleans; 504-368-9845 Clean Gulf; New Orleans; 504-593-6724	Airborne Support Howard Baker Houma, LA 504-851-6391	DC-4 Cap. 2000-gal. DC-3 Cap. 1000 gal.	ASI also supplies spotter aircraft.
USA – Prince William South and Gulf of Alaska	Alyeska; Anchorage, AK; 907-835-6901	Southern Air Crystal Bergstrom 800-327-6456	L100 ADDs packs (2) cap. 5000 gal. each.	Plane and 1 ADDS used outside of AK. With approval of ADEC & USCG
USA – lower 48	EDAC; Ed Rosenberg; 512-547-9928	EDAC Ed Rosenberg 512-547-9928	Air Tractor 802 – (6) Air Tractor 502- (numerous)	EADC is a consortium of plane owners. Service on an as-available basis.
USA – Nationwide	Federal OSC in charge of response	US Air Force – Youngstown, OH	C-130 Military Aerial Spray System (MASS) cap. 2000 gal.	Can only be used if commercial systems are unavailable or insufficient.
USA – Alaska (and possibly elsewhere)	Federal OSC in charge of response	US Coast Guard, 17 th District Alaska	C-130	Can only be used if commercial systems are unavailable or insufficient.
USA Gulf of Mexico and Caribbean	Clean Caribbean; Ft. Lauderdale, FL; 305-983-9880 MIRG; New Orleans, LA 504-368-9845	Renter must supply aircraft.	ADDs pack cap. 5000 gal. @ Ft. Lauderdale	Available worldwide to MIRG members at all times and CCC members with Director's approval.
Canada and Europe; (and USA)	Conair Mark Paterson 604-855-1171 Abbotsford, B.C.	Conair Mark Paterson 604-855-1171 Abbotsford, B.C.	DC-6 (3) Two systems cap. 3000 gal each	Can only be used in USA when other USA-commercial systems unavailable.
SE Asia; (worldwide as needed)	EARL Singapore 65 266-1566	Heavy Lift Cargo Richard Smith Singapore 65 483-0661	C-130 H ADDs Pack cap. 5000 gal.	Can respond to Far East and other areas if needed.
Worldwide	OSRL United Kingdom 44-1703-331551	After 3/96 – Hunting Air Cargo	L100 ADDs pack cap. 5000 gal.	Mobilization only by written request from authorized Chevron personnel.
Worldwide	Biegert Aviation Chandler, AZ 520-796-2400	Renter must supply aircraft.	ADDs Packs (2) cap. 5,000 gal. each	
Worldwide	Southern Air Miami, FL 800-327-6456	Southern Air Miami, FL 800-327-6456	L100 (15) with 1-2 usually in US lower 48.	Renter must supply ADDs pack. Callout subject to availability and location.

Many countries worldwide also maintain aircraft and spray systems suitable for oil spill response.

DISPERSANTS & IN SITU BURNING
SECTION 5

TEXAS STATE APPENDIX**DISPERSANT INVENTORY****Dispersants – USA**

Organization / Phone	Stockpile Location	Dispersant Type And Approximate Amount (Gals)	Storage Method
Delaware Bay COOP Eugene Johnson 302-645-7861	Slaughter Beach, DE	Corexit 9527 – 1,500	55-gal. drums
Clean Harbors Ed Wirkoski 908-738-3002	Perth Amboy, NJ	Corexit 9527 – 1,500	55-gal. drums
MSRC Greg Rixon 202-408-5793	Edison, NJ	Corexit 9527 – 25,000	55-gal. drums
Clean Caribbean Paul Schuler 305-983-9880	Ft. Lauderdale, FL	Corexit 9527 – 30,000 Corexit 7664 – 1,500	55-gal. drums and tanks
Clean Gulf Associates Dick Armstrong 504-593-6724	Houston, TX Grand Isle, LA Panama City, FL	Corexit 9527 – 35,000	55-gal. drums
LOOP, INC. C. Cooper-Gates 504-363-9282	Houma, LA Galiano, LA Fourchon, LA	Corexit 9527 – 35,000	2000-gal. tanks
Energy Chemicals 24 Hr. Security 713-263-7200	Sugarland, TX Baytown, TX	Corexit 9527 – 55,000	55-gal. drums
Clean Coastal Waters Chris Gregory 310-432-1415	Los Angeles, CA Clean Waters No. 1	Corexit 9527 – 7,000	55-gal. drums
Clean Bay Coop. Steve Ricks 510-685-2800	Martinez, CA Richmond, CA	Corexit 9527 – 15,000	Tank trailer and 55-gal. drums
Clean Islands Council Kim Beasely 808-845-8465	Honolulu, HI	Corexit 9527 – 4,000	55-gal. drums
Clean Seas Coop Darryle Waldron 805-684-3838	Carpenteria, CA	Corexit 9527 – 20,000	Tank truck and 55-gal. drums
Clean Sound Coop. Roland Miller 206-744-0948	Chevron Point Wells Rainer Beach, WA	Corexit 9527 – 6,000	300-gal. DOT containers
Sea Pro Jim Annicelli 907-225-7002	Sitka, AK	Corexit 9527 – 16,000	55-gal. drums
Alyeska Coop Steve Hood 907-835-6923	Anchorage, AK	Corexit 9527 – 65,000	55-gal. drums
CISPRI Bill Stillings 907-776-5129	North Kenai, AK Anchorage, AK North Kenai, AK	Corexit 9527 – 20,000 Corexit 9550 – 2,500 Brexit – 1,000	Tanks and 55- gal. drums

IN SITU BURNING**In Situ Burning Procedure**

Company will follow the RRT Region IV In Situ Burning checklist to acquire permission and plan for any In Situ burning as deemed necessary by Unified Command. The checklist for this procedure is located on the following pages.

In Situ Burning Oil Spill Response Checklist

IN-SITU BURNING OIL SPILL RESPONSE CHECKLIST**Appendix A**

The following checklist is provided as a summary of important information to be considered by the Federal On-Scene Coordinator (FOSC) in reviewing any request to conduct in-situ burning in response to an offshore oil spill in the Gulf of Mexico.

1. SPILL DATA (To be completed by Responding Party and submitted to FOSC)

- A. Name of incident: _____
- B. Date and time of incident: Month/Day/Year _____ Time _____
- C. Incident: Grounding _____ Transfer Operation _____ Collision _____
Blowout _____ Pipeline Rupture _____ Explosion _____ Other _____
- D. Did spill source ignite? Yes _____ No _____
Is source still burning? Yes _____ No _____
- E. Spill Location: Latitude _____ Longitude _____
- F. Distance (in miles) and direction to nearest land: _____
- G. Product(s) released: _____
- H. Product(s) Easily Emulsified? Yes _____ No _____ Uncertain _____
- I. Product(s) already emulsified upon release? No _____
Light emulsion (0-20%) _____ Moderate emulsion (21-50%) _____
Heavy emulsion (>51%) _____ Unknown _____
- J. Estimated volume(s) of product(s) released: _____ Gals/Bbls
_____ Gals/Bbls
- K. Estimated volumes of product that could still be released:
Name _____ Gals _____ Bbls _____
Name _____ Gals _____ Bbls _____
- L. Release status: Continuous _____ Estimated rate _____
Intermittent _____ Estimated rate _____
One time only ("batch" spill), flow now stopped _____
- M. Estimate area of spill:
Approximate date/time _____ Surface area _____ sq. mi. (Stat _____ Naut _____)
Approximate date/time _____ Surface area _____ sq. mi. (Stat _____ Naut _____)
Approximate date/time _____ Surface area _____ sq. mi. (Stat _____ Naut _____)

2. WEATHER AND WATER CONDITIONS AT TIME & LOCATION OF SPILL

(To be completed by responding party and submitted to FOSC)

- A. Temperature: Air _____ (°F) Water _____ (°F)
- B. Weather: Clear _____ Partly Cloudy _____ Heavy Overcast _____
Rain _____ (heavy _____ Moderate _____ light _____)
Fog _____ (type & amount at spill source _____)
(type & amount at burn site _____)
- C. Tidal Condition: Slack Tide _____ Flood _____ Ebb _____

IN-SITU BURNING OIL SPILL RESPONSE CHECKLIST

D. Dominant Surface Current (net drift): Speed _____ (knots)
Direction (to) _____ (True compass heading)

E. Wind Speed: _____ knots Wind Direction (from): _____

F. Expected transition time between onshore and offshore breeze: _____

G. Sea State: Flat calm _____ Light wind-chop _____
Wind-Waves: <1 ft. _____ 1-3 ft. _____ > 3 ft. _____
Swell (est. height in ft.) _____

H. Water Depth (in feet): _____

I. Other Considerations:
General visibility _____
Rip Tides/Eddies _____
Floating Debris _____
Submerged Hazards _____

Notes: See Section II PART I of RRT 6 *In-Situ* Burn Plan for weather and water conditions forecast (to be completed by NOAA Scientific Support Coordinator (SSC)).

See Section III PART II of RRT 6 *In-Situ* Burn Plan for predicted oil behavior (to be completed by NOAA SCC).

Responding party has option of submitting information on predicted oil behavior to FOSC.

3. **PROPOSED BURNING PLAN** (To be completed by party responding to spill)

A. Location of proposed burn with respect to spill source: _____

B. Location of proposed burn with respect to nearest ignitable oil slick(s): _____

C. Location of proposed burn with respect to nearest land: _____

D. Location of proposed burn with respect to commercial fishing activity, vessel traffic lanes, drilling rigs and/or other marine activities/facilities: _____

E. Risk of accidental (secondary) fires: _____

F. Risk of reducing visibility at nearby airstrip(s) or airports(s): _____

G. Distance to, location and type of nearest population centers (e.g., recreational site, town, city, etc.): _____

IN-SITU BURNING OIL SPILL RESPONSE CHECKLIST

- H. Methods that will be used (prior to ignition) to notify residents in areas where smoke could conceivably drift into or over such areas: _____
- I. Type of igniter proposed for use: _____
- J. Helicopter(s) needed to deploy igniters? No _____ Yes _____
Name of company and type of helicopter to be used: _____

FAA approval already granted to company for use of igniter: Yes _____ No _____
Awaiting FAA approval or verification of prior approval: _____
- K. Burning promoters or wicking agent proposed for use? Yes _____ No _____
If yes, give type and amount: _____
- L. Describe proposed method of deployment for Igniter(s): _____
Burning Promoter(s): _____
Wicking Agent(s): _____
- M. Describe method for oil containment, if any: _____
- N. Proposed location of oil containment relative to spill source: _____
- O. Proposed burning strategy:
 _____ Immediate ignition at or near source
 _____ Ignition away from source after containment and movement to safe location
 _____ Ignition of uncontained slick(s) at a safe distance
 _____ Controlled burning in boom or natural collection site at/near shore
 _____ Possible need for multiple ignition attempts
- P. Estimated amount of oil to be burned: _____
- Q. Estimate duration of each burn; _____
Total possible burn period _____
- R. Estimated smoke plume trajectory: _____
- S. Method for collecting burned oil residue: _____
- T. Proposed storage & disposal of burned oil residue: _____
4. **WEATHER AND WATER CONDITIONS FORECAST FROM TIME OF SPILL** (to be completed by NOAA SSC)
- A. Wind Speed (knots): 24-hour projection _____ 48-hour projection _____
- B. Wind Direction (from): 24-hour projection _____ 48-hour projection _____
- C. Sea Conditions: 24-hour projection: Flat calm _____ Light wind-chop _____
 Wind-Waves: <1 ft. _____ 1-3 ft. _____ > 3 ft. _____
 Swell (est. height in ft.) _____
 48-hour projection: Flat calm _____ Light wind-chop _____
 Wind-Waves: <1 ft. _____ 1-3 ft. _____ > 3 ft. _____
 Swell (est. height in ft.) _____

IN-SITU BURNING OIL SPILL RESPONSE CHECKLIST

D. Tidal Information:

Date _____ High (time/height) _____ / _____
 Low (time/height) _____ / _____

Date _____ High (time/height) _____ / _____
 Low (time/height) _____ / _____

Date _____ High (time/height) _____ / _____
 Low (time/height) _____ / _____

Date _____ High (time/height) _____ / _____
 Low (time/height) _____ / _____

E. Predicted Dominant Current (net drift): Speed _____ Direction (to) _____

5. **PREDICTED OIL BEHAVIOR** (to be completed by NOAA SSC)

A. Unburned Oil Forecast: Estimated trajectory (attach sketch if necessary): _____

B. Expected area(s) and time(s) of land fall:

Location _____ Date/Time _____

Location _____ Date/Time _____

Location _____ Date/Time _____

Location _____ Date/Time _____

C. Estimated percent naturally dispersed and evaporated:

Within first 12 hours: _____

Within first 24 hours: _____

Within first 48 hours: _____

6. **RESOURCES AT RISK** (to be completed by resource agencies)

A. Habitats:

Sheltered Tidal Flats _____

Coastal Marshes _____

Etc. _____

B. Biological Resources: Are marine mammals, turtles or concentrations of birds noted in the burn area? Yes _____ No _____

Endangered/Threatened Species _____

Non-Endangered/Treatened Species _____

C. Historic and Archaeological Resources:

D. Commercial Harvest Areas:

7. **FEDERAL ON-SCENE COORDINATOR'S EVALUATION OF RESPONSE OPTIONS** (to be completed by FOSC)A. Is *in-situ* burning likely to result in the elimination of significant volumes of spilled oil?

Yes _____ No _____

B. Will the use of *in-situ* burning interfere with (or in any way reduce the effectiveness of) mechanical recovery and/or dispersant application? Yes _____ No _____

IN-SITU BURNING OIL SPILL RESPONSE CHECKLIST

If yes, do the potential benefits of burning outweigh the potential reductions in effectiveness of mechanical/dispersant use? Yes _____ No _____

- C. Can *in-situ* burning be used safely, and with an anticipated overall reduction in environmental impact (compared with the decision not to burn)? Yes _____ No _____

8. **FEDERAL ON-SCENE COORDINATOR'S DECISION REGARDING *IN-SITU* BURNING** (to be completed by FOSC)

- A. _____ Do Not Conduct *In-Situ* burn.
B. _____ *In-Situ* burn may be conducted in limited or selected areas
C. _____ *In-Situ* burn may be conducted as requested.

Note: If the FOSC approves of *in-situ* burning, local media and residents in areas within the potential smoke plume trajectory must be notified prior to initiating the burn.

Signature of FOSC: _____

Printed Name of FOSC: _____

Time and Date of Decision: _____

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SAMPLING

SECTION 6 SAMPLING

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EPHEMERAL DATA COLLECTION GUIDANCE MANUAL

EPHEMERAL DATA COLLECTION GUIDANCE MANUAL*Prepared for:***CHEVRON RESEARCH AND TECHNOLOGY COMPANY**

Richmond, CA

*Prepared by:***ENTRIX, Inc.**

Walnut Creek, CA

with

Arthur D. Little, Inc.

Cambridge, MA

Project No. 329116

May 9, 1996

EPHEMERAL DATA COLLECTION GUIDANCE MANUAL

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INTRODUCTION

1.0

INTRODUCTION

PURPOSE

The purpose of this guidance manual is to identify the basic sampling methods for collecting essential **ephemeral*** samples and data, and to describe these methods so that they can be implemented by the Chevron first responders (or their immediately-available contractors) even if they have limited specialized experience, expertise and equipment.

BACKGROUND

There are several types of ephemeral samples and data that can be obtained only in the first few hours to a day or two following an oil spill (hereafter meant to include any unauthorized release of petroleum hydrocarbons to which the Oil Pollution Act of 1990 applies). In most spills, the oil quickly spreads on the surface, is dispersed in the water, stranded on the shoreline and other structures, removed by cleanup actions, and/or evaporated. Ephemeral data are often critical in making immediate decisions about identifying the least environmentally damaging containment, cleanup or protection countermeasures. Ephemeral data are also critical for evaluating the impacts of the spilled oil to natural resources and their habitats in the natural resource damage assessment (NRDA) that may follow months to years later. In most instances, the first responders at the scene will be Chevron employees from the facility (e.g., refinery, terminal, tank farm, pipeline, ship or barge, truck) where the spill originated. First responders are unlikely to be trained or experienced in the methods for collecting ephemeral data, nor are they likely to have the

*With regard to environmental sampling by Chevron first responders, ephemeral refers to samples and data that are particularly transient and changeable during the first 48 hours of the spill. Ephemeral data include: distribution of oil on and in the water; water and sediment quality in areas prior to oil impact; early weathering of the oil; petroleum hydrocarbon concentration in biota, especially mussels and other bivalves; and site physical characteristics.

necessary equipment readily available. More likely, the facility will have a response plan that relies on corporate response resources, such as Chevron's Advisory Resource Team (ART) and/or Environmental Functional Team (EFT) as well as experienced contractors and consultants (hereafter called consultants), some of whom may be on a 24-hr/7-day call-out status. However, by the time help arrives several hours to a day or two after the spill occurs, it will be too late for them to collect some of the critical ephemeral data.

APPLICATION OF MANUAL

This manual emphasizes the critical ephemeral data and samples that may be lost forever if they are not collected in the first 24–48 hours of a spill. These data include: (a) source oil and freshly spilled oil, (b) spatial distribution and amount of oil on the water surface, (c) unoiled and some oiled beach sediments, (d) water quality in unoiled and oiled areas, and (e) unoiled intertidal organisms. The manual briefly describes the purpose for obtaining each type of sample or data, and the relevance and importance of the environmental decision-making and assessment following an oil spill.

The manual provides **guidance** on where, when, and how to collect each type of sample and data. It recognizes that specialized equipment may not be readily available, however the basic materials and equipment are usually available at the facility or at nearby hardware, building supply and/or marine supply stores. Adequate logistics support (e.g., vehicles, boats, etc.) is also usually readily available.

The manual also emphasizes the importance of documenting the samples and data so that they can be used by scientists, engineers, economists, and attorneys to evaluate the environmental impacts of the spilled oil. With appropriate quality assurance and documentation, the data should also be useful in preparation for a negotiated settlement or litigation.

The manual does not provide detailed Standard Operating Procedures (SOP), site-specific protocols or study plans, work plans, quality assurance/quality control (QA/QC) plans, or a Health and Safety Plan. The manual also does not provide guidance for sampling biological resources such as birds, mammals, fish, most shoreline macroinvertebrates, or submerged organisms. The sampling methods for most of these biological resources

generally require technical expertise and experience that most first responders do not have and do not require for their usual jobs.

The manual also does not provide guidance on collecting data on recreational or commercial uses of the potentially oiled area and resources. All of these topics and issues will be dealt with by members of Chevron's ART and/or EFT as well as experienced consultants and contractors when they arrive on site, usually within 24 to 48 hours.

PRIORITIES OF ACTIVITIES

2.0

PRIORITIES OF ACTIVITIES, GENERAL OBSERVATIONS, REQUIREMENTS, AND EQUIPMENT LISTS

INTRODUCTION

This manual provides general **guidance** for the collection, processing, documentation and preservation of ephemeral samples and data. The guidance may need to be modified depending upon the characteristics of the site and oil spill. The actual methods implemented should be thoroughly documented in the field by the first responders doing the sampling. Documentation should include video and/or photographic methods. Any modifications to the methods described in this guidance manual or any other plans used by the first responders should be described in the field notes.

There are five overall guidelines that should govern the first-responders actions:

- (1) Be flexible, be practical, use common sense, and use prudent judgment.
- (2) Collect the samples and data, if in doubt. A decision to analyze them can be made later by Chevron EFT or consultants.
- (3) Document samples, methods, observations, chain-of-custody and other information that is relevant.
- (4) Contact the Chevron EFT or consultants for spill-specific advice as early as practical in the spill response, including while they are at home or en route.
- (5) Comply with health and safety procedures listed in the daily Incident Action Plan.

Ideally, this manual will provide incentive for Chevron's first responders to begin: pre-incident planning including: identification of local consultants; preparation of standard operating procedures to augment those described in following sections; training in field sampling methods; stockpiling equipment and materials or identifying local sources; identifying the sensitive habitats and resources to be sampled first; and preparation of the contact list for Chevron EFT and expert consultants. This manual also provides a brief description of the need for collecting each type of data or sample.

PRIORITY OF FIRST-RESPONDER'S ACTIVITIES

The following is a priority list of initial environmental sampling and monitoring activities for Chevron's first responders, with the highest priorities listed first. The actual order may need to be modified, based on spill-specific circumstances.

- (1) Contact one of the following members of the Chevron EFT (Pat O'Brien, Gary Rausina, Will Gala, Andy Glickman, Lucinda Jackson, Kirk O'Reilly, or Michael Ammann) or consultants for advice and guidance. A short phone call or fax can provide expert advice based on experience with numerous oil spills and save a lot of time.
- (2) Identify the first-responder ephemeral sampling team members, assign responsibilities and tasks, and identify schedule and reporting relationships within the team as well as with others in the response organization.
- (3) Assign one team member full-time to be responsible for documenting and compiling samples, data, photos, video tapes, field logs, chain-of-custody, and similar material according to procedures described in this guidance manual. This person should also be responsible for coordinating QA/QC activities with the first responders and for transitioning to the EFT QA/QC coordinator upon arrival at the site.
- (4) Compile general information on physical and biological site characteristics of the affected and adjacent areas, and on spill

characteristics, to the extent practical. The information will facilitate discussion with Chevron ART and/or EFT and consultants so they can plan ephemeral data/sample collection activities. Consult the oil spill Area Contingency Plan for information on sensitive or listed species.

- (5) Collect source oil and spilled (e.g., weathered) oil samples.
- (6) Document distribution and amount of oil with photos, video and personal observations at least once per day and preferably 2-3 times per day.
- (7) Collect water, beach sediment and biological samples “ahead” of the oil slick for “before impact” comparison.
- (8) Notify the appropriate state and federal fish and wildlife agencies responsible for managing any biological resources that Chevron first responders want to sample selected biota (e.g., mussels, clams) for pre-impact petroleum hydrocarbon bioaccumulation levels. Often, only a valid sport-fishing license will be required.
- (9) Collect water samples adjacent to and, if practical, within the oil slick.
- (10) Locate a secure place to store samples. At minimum, samples must be refrigerated to 4°C. A secure freezer, preferably one that can store sediment, oil and biological (but not water) samples at –20°C is also desirable.
- (11) Obtain logistic support, equipment and materials for incoming Chevron EFT and consultants.

A generalized sampling scheme and priority of sampling stations, based on Sections 3.0 and 5.0-7.0 following, is presented in Figure 2-1 (page H-53).

GENERAL OBSERVATIONS

General observations on the oil spill and site characteristics should be documented in writing, and with video and/or photographs daily and preferably 3 times per day to provide:

- (1) A basis for planning the ephemeral data and sample collection programs.
- (2) Background information to the Chevron ART and EFT, and consultants as they are en route to, and when they arrive, at the spill site.
- (3) Documentation of conditions that are essential input to any NRDA models and assessments that the state and/or federal trustees use.

Two example data sheets are provided in Appendix A (page H-38).

In addition, the surface oil trajectory model (e.g., WOSM) output provided to the Unified Command should be obtained as soon as it is available. The trajectory information may suggest areas and resources to be sampled and help establish the sampling priorities.

GENERAL REQUIREMENTS FOR ALL EPHEMERAL SAMPLE AND DATA COLLECTION PROGRAMS

There are five requirements that are applicable to all ephemeral sample and data collection programs. They are described below under Basic Quality Assurance, Chain-of-Custody, Documentation, Sample Station Location, and Sample Station Characterization.

BASIC QUALITY ASSURANCE

Adherence to basic quality assurance (QA) procedures is essential and will enhance the quality of the samples and data collected for subsequent use in environmental decision-making, NRDA evaluation, and potential negotiated settlements or litigation. These basic QA procedures include:

- (1) Follow the sampling protocols generally described herein, with modifications as provided by Chevron EFT or consultants.
- (2) Decontaminate sampling equipment (e.g., cores, sample bottles, spoons, etc.) between each sample with solvent (preferably methanol or

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methylene chloride) or Alconox detergent followed by a distilled water wash. Collect the wash water, solvents and discarded sampling gear in containers for proper disposal as determined in the daily Incident Action Plan.

- (3) Mark the sample stations and document position using LORAN or GPS coordinates, radar, line-of-sight triangulation or other reproducible methods (see following sections for more detail).
- (4) Document site characteristics immediately prior to sampling (see following sections for more detail).
- (5) Maintain complete documentation, including chain-of-custody forms, and sample tags or labels for every sample or data type.
- (6) Process and store samples in the field so as to prevent cross-contamination between samples; e.g., keep samples in separate containers, and separate different sample types.
- (7) Store sediment, water and biological samples on frozen “Blue-Ice” if available, or ice cubes, in ice chests/coolers while in the field.
- (8) Transport samples on a daily basis to a secure storage area onsite where they can be kept cool or frozen as appropriate for specific samples. Where practical, transport directly to the analytical laboratory which will store the samples until analyses are done, is preferable.
- (9) Maintain proper chain-of-custody documentation for each sample (see Appendix A for example of chain-of-custody form).
- (10) Use nitrile gloves to avoid contaminating samples. If nitrile gloves are unavailable, use latex gloves. In either case, do not allow oil that has come into contact with the gloves to get into the sample. If it does, discard the sample and obtain a new one.

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Environmental monitoring in the first 24-48 hours of a spill response should focus on the collection of reliable samples and data, and their documentation. Decisions regarding sample analyses can be made by Chevron's NRDA experts after they evaluate the spill response and initial injury to natural resources.

CHAIN-OF-CUSTODY

It is essential to maintain chain-of-custody on all samples and data such as video tapes. If the chain-of-custody is "broken," then the integrity of the sample and resulting data may be questioned later, especially if the NRDA and related assessments are adversarial between Chevron and other parties. A sample chain-of-custody form is provided in Appendix A.

Chain-of-custody means that the sample or data are the possession and under the control of the person identified on the form for the period specified on the form. Possession and control can mean literally in possession, within sight, or in secure storage where the access is limited to the person in possession. The person taking possession and the person relinquishing possession need to sign the form when the transition takes place.

Chain-of-custody forms should be completed as part of the documentation activity.

DOCUMENTATION

All field activities, observations, samples and data collected, personnel involved, and similar information should be documented in the appropriate media (e.g., paper, photographs or slides, video tape recording, computer files/diskettes, etc.). Before sampling, each sample location should be documented with photographs and/or video to record site conditions, geographic references, and human use. Documentation should only include objective observations, data, and similar information. It should not include personal opinion, speculations, preliminary conclusions, "editorial" notes, and similar material.

One person should be responsible for compiling all documents at a central, secure location, preferably at or near the Chevron command and resource coordination location. The

compilation and documentation may require more than one person in a substantial oil spill incident.

SAMPLE STATION LOCATION

The geographic location of each sample station should be determined and documented as accurately and precisely as time, conditions, equipment and expertise allow for two reasons. First, being able to show others where the samples and data came from may be important in establishing the next response action(s) and in estimating the oil impacts to natural resources. Second, the longer-term injury assessment and natural resource recovery monitoring programs may need to re-occupy the same stations to obtain data for comparison with data collected in the ephemeral sampling program.

Most sampling done from a ship or boat can utilize the global positioning system (GPS), radar, LORAN, or other navigational aids used by the vessel. If one of these systems, preferably a GPS, is not available on the vessel, the first responders should consider chartering another vessel that does have the equipment.

For sampling on mudflats, beaches, and other shorelines, there are several methods available for station locations. The fastest and easiest to implement is hand-held GPS, provided the precision of ± 10 m in most areas is acceptable. For most ephemeral data sampling in mudflats and sedimentary beaches, a ± 10 m precision is generally adequate. If more precision is required or desired, then there are at least 3 alternatives:

- (1) Use a differential GPS such as that used by surveyors for very precise positioning.
- (2) Have a survey crew determine the position of each sample, using a variety of standard survey methods and equipment.
- (3) Mark the sample location and/or document its location with respect to known, fixed landmarks, and survey the position at a later time if the exact coordinates need to be determined.

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To the extent practical in the circumstances of a specific spill, the first responders should consider the following in establishing, marking and documenting the sample station locations:

- (1) Select stations with easy access to streets, roads, and parking lots. Note location and address on maps and in field notebook.
- (2) Select stations within sight and, preferably, easy measuring distance of distinctive, permanent landmarks (e.g., commercial buildings, piers, named/numbered storm drains, recreational buildings on the beach). On tidalflats and mudflats, it may be necessary to select buildings, etc. that are several hundred feet or more away. If possible, select landmarks that “line up.”
- (3) Mark the backshore end of the transect (which is usually oriented perpendicular to the waterline) with fluorescent paint if there is a dry solid surface. Be careful not to deface structures that cannot be cleaned up later. On sedimentary beaches, it may be necessary to drive a stake into the substratum and mark it with flagging.
- (4) Measure the distance and compass direction to actual sample station location(s) from this backshore marker, and record the information in the field notebook.
- (5) Document, with a camera and/or video recorder, the sample location in at least the four cardinal compass directions (e.g., N, E, S, W) on a tideflat, mudflat, or similar large area. On a linear shoreline, document the area in both directions along the shore as well as across the shore. For the latter, take photos and/or video from the waterline toward the backshore, and try to get a permanent, distinctive landmark in the photo or video. Then, take photos and/or video from the backshore to the waterline. In each photo, include a card with the station name/number and date.

As a guide to documenting the station location, the first responder should ask themselves “Could I relocate this station precisely and accurately with the data I am recording?”

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SAMPLE STATION CHARACTERIZATION

For sampling water and weathered oil on/in water, the characterization of sample stations is generally limited to the following information which should be recorded in the field notebook:

- (1) Station name/number and location.
- (2) Water depth.
- (3) Sea surface conditions.
- (4) Presence, amount, distribution, and weathered status of oil in the station vicinity.
- (5) Presence of flotsam and jetsam, seagrass, kelp, corals, birds, fish, marine mammals, and other macro-biota.
- (6) Salinity and temperature (if instrumentation is readily available to obtain these data).
- (7) Photograph and/or video; usually only useful to document #(4) or (5) above.

For sampling stations on tideflats, mudflats, and/or shorelines, the physical characteristics of the habitat as well as the oiling should be documented in writing in a field notebook, and with photos and/or video. The first responders should not rely solely on photos and/or videos for characterizing the station. Data and observations that may be recorded include:

- (1) Station name/number and location; describe relative to named access points and other landmarks.
- (2) Distance/direction from fixed points to station.

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- (3) Substrate characteristics.
- (4) Time and estimated tide level.
- (5) Water conditions, especially surf, and wind conditions (direction and speed).
- (6) Substratum type (e.g., sand, cobble, mud, rock, concrete); close-up photos are recommended.
- (7) Beach use by people.
- (8) Number and orientation of photographs and/or video obtained; see Sample Station Location previously for guidance.
- (9) Location of man-made facilities (e.g., storm drains) and activities (e.g., lifeguard towers, fishing piers) nearby.

GENERAL EQUIPMENT LIST

The equipment necessary to conduct each type of sampling is identified in Section 3.0-7.0 following. More site-specific lists of equipment, materials and logistic support may be developed by the local facility personnel in any pre-spill planning and training activities they conduct.

Additional items are listed in Appendix B (page H-42). Because the requirements for each location and facility will differ, additional space is provided in Appendix B for the first responders to add items that they consider necessary for safe and successful ephemeral sample and data collection.

OIL FROM THE SOURCE AND WEATHERED OIL

3.0

OIL FROM THE SOURCE AND WEATHERED OIL

PURPOSE

Sampling source or “neat” oil immediately and weathered oil over the first few days (as well as later) is essential in oil spill situations. These samples provide the detailed chemical “fingerprinting” of the oil from the release source for comparison to waterborne or beached weathered oil. This information is especially important for evaluating the temporal changes in oil toxicity. Neat oil sampling and advanced chemical fingerprinting methods allow identification of the source, determination of the environmental fate of the spilled product, differentiation between multiple sources, and allocation of relative contributions of pollutant levels to their respective sources. Although weathered oil may persist in the environment, its toxicity decreases with time; therefore sampling over time provides specific information related to the extent and duration of the injuries.

SAMPLING PRIORITIES

Sampling of source and weathered oil should be initiated immediately in all oil spills.

The priorities, in chronological order, are to:

- Collect samples from the spill source (e.g., ship cargo tank, pipeline, onshore storage facility) and other suspected or possible sources, especially if there is any uncertainty about the source(s).
- Collect samples of the spilled oil including “fresh” oil and emulsified oil (mousse) from the leading edge of the floating oil slicks; this sampling can be conducted in conjunction with water column sampling described in Section 5.0 (page H-23).

- Collect oil samples in the main oil slick and near the release point, if practical and safe.
- Collect samples of beached oil; this sampling can be conducted in conjunction with shoreline sediment sampling, described in Section 6.0 (page H-28).

SAMPLING METHODS

The primary objective is to obtain samples of the source oil which have not been exposed to environmental conditions and thus have not begun to weather significantly. It may not always be possible or practical to collect neat oil. For example, during oil tanker or platform fires, the oil “source” is consumed or altered during the spill event. In such cases, it may be necessary to obtain samples of the “source” product from the point of origin loading facility (in the case of a tanker which is lost) or from the same production formation (in the case of a platform blowout); these samples can be obtained by the consultants after they arrive.

Source oil and recently-released weathered oil samples should be collected as soon as practical after the spill event. A bomb or pond sampler may be used to collect source samples which cannot be reached by hand. An uncontaminated spoon or scoop may be used if the source is accessible by hand. Use nitrile gloves if available to avoid contaminating samples. If nitrile gloves are not available, use latex gloves. In either case, do not allow oil that has come into contact with the gloves to get into the sample. If it does, discard the sample and obtain a new one.

Four samples should be collected, three replicates for chemical analyses and one for possible toxicity tests. Each sample should be a minimum 100 ml and preferably as much as the sample container will hold. The sample should be collected into a pre-cleaned, certified (e.g., I-Chem) glass, wide-mouth jar; however, a clean, glass jar with an airtight cap will work if necessary. The samples should be labeled, kept cool in the field and then stored frozen at -20°C prior to shipment to an analytical laboratory. Any sampling devices or implements used to collect samples should be stainless steel and rinsed with a solvent such as methanol or methylene chloride immediately prior to use for each replicate sample.

If solvent is not available, a thorough washing with Alconox laboratory detergent followed by rinsing with distilled water will work.

The same sample collection procedure should be used to collect samples of the “weathered” oil including the floating oil slick, mousse, and tarballs, and oil deposits on the shoreline.

An additional objective is to minimize the amount of water collected and retained with the weathered oil sample. The excess water can be removed by pouring the oil from one jar to another, possibly several times, until the sample is mostly oil and most of the water is discarded.

DISTRIBUTION OF OIL

4.0

DISTRIBUTION OF OIL

PURPOSE

Documentation of the changes in distribution of oil on the water surface and the amount (thickness) of oil in the surface slicks for the first 48 hours of an oil spill is necessary for NRDA. Several state NRDA procedures are based on the area covered by oil from the beginning of the spill; an overestimate results in an overestimate of economic damages. The amount of oil present is important for estimating injury in some state and federal NRDA models.

The documentation of oil distribution, independent of or in addition to that done by USCG, NOAA and cleanup contractors, is necessary because they typically do not accurately and precisely document the oil amount or distribution beyond what they need for short-term cleanup operation decisions. Location, date, elevation, scale, etc. are often not well-documented. Also, video tapes, photographs and/or written observations may not be readily available when needed by the NRDA teams.

SAMPLING PRIORITIES

The first priority is to document the distribution of oil on the water surface, particularly the large slicks, because this distribution can change rapidly and markedly under the influence with wind, tidal currents, and other water currents.

The second priority is to document oiled shorelines. However, once oil is stranded on the shore, it is typically visible for several days to weeks and can be documented by the Shoreline Cleanup Assessment Team (SCAT) or consultants.

SAMPLING METHODS

The distribution of oil should be documented at least twice per day beginning with the first day and continuing for the next 2-5 days when the frequency may be reduced to daily or less.

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SAMPLING

SECTION 6

Permanent and quantitative documentation of the distribution of oil should be done by a commercial aerial photography firm with the following specifications:

- Color film and, if available, infrared film in 9" x 9" format on a continuous roll.
- Overlapping frames, preferable 60% forward overlap and 30% side overlap.
- Scale of 1" = 500' for overwater photography.
- Scale of 1" = 200' for shoreline photography (this should be separate flight line(s) from over water survey).
- Time, date, and location (via GPS if possible) should be recorded on each frame or, at minimum, at begin and end of each flight line.
- As early as practical in the morning and early to mid afternoon; however, local conditions and experience of the aerial survey firm may dictate more appropriate time periods.

If the video equipment, aircraft (preferably a helicopter), and people are available, a low-level aerial video survey is useful to document the estimated amount of oil on the water surface as well as on the shore zone. The video operator records the oil slicks while a second observer estimates the amount of oil present, based on the characteristics described in Table 4-1. The geographic location of images recorded on the videotape (VTR) must be recorded on the audio track of the videotape or cross-referenced with notes kept by the second observer. The video camera should use color VTR and record time, date, and audio. The start and end time and locations for each VTR must be recorded.

Table 4-1. General Relationship of Sheen Color to Oil Layer Thickness.

<u>State of Alaska</u>	<u>Exxon</u>	<u>Thickness (mm)</u>
Gray	Very light sheen (transparent)	0.00005
Silver	Silver sheen	0.00010
Blue	First color	0.00015
Rainbow	Rainbow	0.0003
Copper	Dull	0.001
	Yellow brown	0.01
Brown	Light brown	0.1
Black	Brown/black	1.0

WATER SAMPLING

5.0

WATER SAMPLING

PURPOSE

The primary purpose of sampling the near surface water column (upper 1 m) in unoiled and oiled areas is to determine the concentration of toxic petroleum components such as aromatics. The secondary purpose is to determine what portion of the petroleum hydrocarbons present may come from the spilled oil as a result of physical mixing, dissolution, adsorption to suspended particles, etc.

The petroleum components in the water column may be at concentrations that could be toxic to fish, crustaceans, plankton, and eggs and larvae, all of which may constitute substantial injury and thus monetary damages in the NRDA process. The concentration of petroleum hydrocarbons in the upper 1 m of the water column is highest in the first few hours to day following a release of fresh oil, and decreases very rapidly. Therefore, to document the time-concentration relationship, Chevron's first responders should collect water samples during the first day of the spill response.

SAMPLING PRIORITIES

The **first** priority is to collect samples in areas that are not yet affected by the oil, but which are expected to be affected, based on trajectory analyses and professional opinion of the Unified Command. Begin with the sensitive areas that are likely to be oiled within the first few hours to 1-2 days.

The **second** priority is to collect samples in oiled areas, provided it is safe and permitted by the Unified Command. Within the oiled areas, the first priority is to sample in the main oil slick followed by sampling at the leading margin where the oil slick has begun to break up and the oil has begun to weather. If oil is already ashore, some sampling could be conducted in the offshore area adjacent to the oiled beach, and outside the surf zone.

The **third** priority is to sample reference areas. These are areas unlikely to be affected by the spill and that are similar to the affected areas. In general, the selection and sampling of reference areas should be left to Chevron ART or EFT who will consult with the trustees as appropriate.

The second and third priority samples should be collected within 48 hours after the spill, if practical. These samples may be collected by the Chevron EFT or consultants, if they arrive within the first 24-48 hours.

SAMPLING METHODS

Discrete samples should be collected in the priority sequence described above, beginning on the first day of the spill and at least once per day thereafter until Chevron's EFT and consultants arrive.

At each sample station, sampling should meet the following criteria:

- Three replicate samples from each sample depth (e.g., 1 m, 2 m, 5 m below water surface).
- Samples should be taken as close in time and location as practical.
- Samples taken about 1-m below the surface; additional sample depths may be taken at 2-m and 5-m below the surface if time and equipment allow, and if there has been sufficient wave energy to suggest that oil may be physically dispersed into the water column.
- Sampler to be cleaned between each sample (especially important for samples obtained in the oiled areas) using solvent (preferably methanol or methylene chloride) or Alconox detergent plus distilled water rinse.
- Sampler must not be deployed directly through oil at the surface. If it is, the sampler must be decontaminated before being used again.

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Samples should be obtained with a water sampler capable of obtaining at least 1-liter of water. The sampler should be deployed from the surface and kept closed during deployment and retrieval. Any visible oil at the water surface should be “moved aside” with a water hose, compressed air, or a paddle before sampler deployment. The sampler should be cleaned between samples. The preferred sampler is one that:

- Allows for the sample bottle (minimum size 1 liter and ideal size 2 liters) to enter the water through the surface in a closed position.
- Can be opened at the desired depth.
- Can sample reliably at a prescribed sampling depth.
- Can be closed after sample collection.
- Allows for preservation of the sample in the sample container.

The recommended sampler is the “Sub-surface Grab Sampler III” (Ben Meadows Co., telephone number 1 (800) 241-6401; Cat. No. 226400), with pre-cleaned, 2500mL, amber-glass wide mouth jars (closure size 70-400), available from Environmental Sampling Supply, Inc. (ESS) (telephone number 1 (800) 233-8425, Cat. No. 2500-0500) or other supplier. The sample can be poured into the specific sample jars, with the volatile organics analysis (VOA) sample collected first.

Two types of samples will be obtained for chemical analyses: one for semi-volatile organics and one for total petroleum hydrocarbons (TPH) and polycyclic aromatic hydrocarbons (PAH).

For volatile organics (VOA):

- (1) Use only standard, pre-cleaned, 40-ml glass, screw-cap, VOA vials with Teflon®-faced silicone septum and containing 2 drops of 6N hydrochloric acid as preservative. These will be provided by the laboratory.

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- (2) Fill out label on bottle with the following information: sample number, sample type, date, analysis to be conducted (volatile organics), time of collection, collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- (3) After retrieving the field sample, pour the VOA sample gently into bottle to prevent formation of air bubbles in the vial as it is being filled. Fill vial until a meniscus is formed over the lip of the vial. Cover with screw-cap lid. After tightening the lid, invert the bottle and tap to check for air bubbles. If bubbles are present, pour out the sample, add 2 drops of hydrochloric acid, and refill with sample.
- (4) Seal each VOA vial in a separate plastic bag to prevent cross-contamination.
- (5) Place sample in small ice chest with frozen "Blue-Ice" or ice cubes.
- (6) Transfer to refrigerator for storage at 4°C and send samples to analytical laboratory within 24-48 hours, if possible (maximum holding time prior to extraction and analysis is 7 days).

For TPH and PAHs:

- (1) Use only pre-cleaned amber glass bottles, preferably from an analytical laboratory. Five ml of 6N hydrochloric acid per liter of water should be added as a preservative. Preferably, the acid will be added by the laboratory; if not, it will need to be added by the field sampling team. Use one-liter, amber-glass, screw-cap bottles with Teflon® liners.
- (2) Fill out label on bottle with the following information: sample number (each sample container must have discrete number), sample type (e.g., water), date, location of sampling, time of collection, and collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.

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- (3) Carefully fill bottle completely with water. Replace the cap and check to make sure screw-cap covers are tightly in place.
- (4) Place sample in small ice chest with frozen “Blue-Ice” to maintain a temperature of 4°C. If “Blue-Ice” is not available, use ice cubes or block of ice.
- (5) Transfer to refrigerator for storage at 4°C. Send samples to the analytical laboratory within 24-48 hours, if possible. Do not freeze water samples.

INTERTIDAL SEDIMENT SAMPLING

6.0

INTERTIDAL SEDIMENT SAMPLING

PURPOSE

The purpose of sampling the beach sediments (e.g., mud, sand and/or gravel) in unoiled areas is to determine the concentration of oil fractions, especially toxic ones such as aromatics, that are present prior to the spilled oil reaching the beach and to determine what proportion of the petroleum hydrocarbon present comes from the spilled oil compared to other sources. The oil on and in beach sediments may be toxic to animals and plants living there.

The emphasis of the ephemeral sampling program is on beaches that are unoiled, but are likely to be oiled within 2-5 days. Sampling of oiled beaches, unoiled reference beaches, and oiled or unoiled rocky shores could be done by first-responders using the methods described below. However, once a beach is oiled, the oil is generally persistent for several days to weeks or months, and could be sampled by Chevron's EFT or consultants after they arrive. Also, samples for sediment grain size and total organic carbon analyses can generally be deferred for a few days. Offshore and subtidal sediments are typically not affected by spilled oil in the first few days (except for oil that is heavier than water when released) and could also await sampling by Chevron's EFT or consultants. Subtidal sampling requires either divers or specialized sampling equipment that may not be readily available to first-responders.

SAMPLING PRIORITIES**OILED AND UNOILED AREAS**

Samples should be obtained from the potentially oiled and reference areas in the following sequence of decreasing priority (see also Figure 2-1).

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- (1) Areas that have not been oiled but are likely to be within 24-48 hours.
- (2) Areas that have not been oiled, but may be 2-5 days hence.
- (3) Reference areas that are unlikely to be oiled.

Priority category (1) is the critical sampling effort and must be completed before oil reaches the area. Also, sampling of sediments in oiled areas can be left for a few days.

HABITATS

Within each of the potentially oiled areas, especially priority category (1), habitats should generally be sampled in the following sequence of decreasing priority (see also Figure 2-1);

- (1) Areas known or suspected to be utilized by threatened or endangered species.
- (2) Wetlands, mangroves.
- (3) Tidal mudflats.
- (4) Sand/gravel beaches.

Field judgment may modify this sequence; for example, if oil will reach a sand beach within 3 hours and a wetland after 12 hours, then the sand beach could be sampled first. Also, information on areas of specific habitats that are utilized by threatened or endangered species may be available from the Area Contingency Plan and/or the local state or federal fish and wildlife agencies.

SAMPLING METHODS

Collection of discrete samples should be collected in the priority sequence described above, preferably on the first day of the response. Subsequent sampling at the same

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locations will probably be done by Chevron EFT or consultants, so station locations need to be marked and documented.

Stations should be located at the same elevation relative to mean lower low water (MLLW) or other standard tidal datum used in the area. If practical, three tidal elevations should be sampled, in the following sequence of decreasing priority:

- (1) Mean high tide where most of the oil is typically stranded and greatest intertidal beach recreation use occurs, though biological diversity is lowest here.
- (2) Mean sea level where less oil is stranded but intertidal biological diversity begins to increase.
- (3) Mean low tide where the least oil is stranded, beach recreation use is lowest, and intertidal biological diversity is greatest.

At each station, obtain at least three replicate samples within a 5-m diameter. The sampling procedure for each sample is described in the following 7 steps:

- (1) Prior to any sampling and after marking the station location, photograph or video the sampling site. Take video and/or the photos in both directions along the shore as well as from the waterline toward the backshore, and from the backshore to the waterline. Try to get permanent and distinctive landmarks in some photos and/or videos for future reference.
- (2) Collect sample with pre-cleaned core sampler, preferably stainless steel. However, brass core liners or plastic, PVC, or acrylic pipe may be used if that is all that is available. Core should be 10-cm long, if possible, and at least 2.5-cm, preferably 5-cm, in diameter. In gravel or small cobble, it may be necessary to dig the 10-cm deep sample out using a pre-cleaned trowel, spoon or similar tool.

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- (3) Fill out label on bottle with the following information: sample number (each sample container must have discrete number), sample type (e.g., sediment), date, location of sampling, time of collection, collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- (4) Use 8-oz. screw-cap jar with Teflon® liners, preferably glassware pre-cleaned and provided by the analytical laboratory. Fill jar completely with soil/sediment if possible; a minimum of 100-ml is required for analyses. Replace cap and make sure cap cover is tightly sealed. As an alternative, the core can be left in the core sampler and frozen on dry ice at the site. This allows the sediment stratigraphy, if any, and depth of visible oil penetration into the sediment to be documented. The core can be sectioned, if needed.
- (5) Wash all equipment that will be used to collect sample with solvent (preferably methanol or methylene chloride) or Alconox detergent and rinse completely with distilled water prior to use and between each sample collection to prevent cross-contamination of samples. Equipment to be cleaned includes shovels, spatulas, mixing bowls, cores, etc.
- (6) Place sample in an ice chest with dry ice if available or, at minimum, with frozen "Blue-Ice" to maintain a temperature of 4°C. If "Blue-Ice" is not available, use ice cubes or block of ice. Transfer to a freezer for temporary storage at -20°C.
- (7) Samples should be sent to the laboratory within 24-48 hours, if possible, and held at -20°C prior to extraction. Maximum holding time prior to extraction and analysis is 14 days.
- (8) Mark the location of the sample sites using stakes and flagging distances/directions to permanent landmarks, etc. so the stations can be relocated for subsequent sampling programs.

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- (3) Fill out label on bottle with the following information: sample number (each sample container must have discrete number), sample type (e.g., sediment), date, location of sampling, time of collection, collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- (4) Use 8-oz. screw-cap jar with Teflon® liners, preferably glassware pre-cleaned and provided by the analytical laboratory. Fill jar completely with soil/sediment if possible; a minimum of 100-ml is required for analyses. Replace cap and make sure cap cover is tightly sealed. As an alternative, the core can be left in the core sampler and frozen on dry ice at the site. This allows the sediment stratigraphy, if any, and depth of visible oil penetration into the sediment to be documented. The core can be sectioned, if needed.
- (5) Wash all equipment that will be used to collect sample with solvent (preferably methanol or methylene chloride) or Alconox detergent and rinse completely with distilled water prior to use and between each sample collection to prevent cross-contamination of samples. Equipment to be cleaned includes shovels, spatulas, mixing bowls, cores, etc.
- (6) Place sample in an ice chest with dry ice if available or, at minimum, with frozen "Blue-Ice" to maintain a temperature of 4°C. If "Blue-Ice" is not available, use ice cubes or block of ice. Transfer to a freezer for temporary storage at -20°C.
- (7) Samples should be sent to the laboratory within 24-48 hours, if possible, and held at -20°C prior to extraction. Maximum holding time prior to extraction and analysis is 14 days.
- (8) Mark the location of the sample sites using stakes and flagging distances/directions to permanent landmarks, etc. so the stations can be relocated for subsequent sampling programs.

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SAMPLING

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ANIMALS

7.0

ANIMALS

PURPOSE

Several species of animals live in or on the intertidal habitats and do not move far (or at all); i.e., clams, mussels, snails, some crabs and shrimp. These animals bioaccumulate petroleum hydrocarbons, as well as other organic and inorganic compounds, to concentrations greater than that of the sediment or water in which they live. The extent to which the animals in oiled areas have bioaccumulated a higher concentration of petroleum hydrocarbons compared to animals in unaffected areas may be used as an qualitative index of exposure and possible impacts to them as well as to the animals that feed on them. This information is important in assessing injuries to natural resources to evaluate recovery, and in evaluating the restoration alternatives during the NRDA.

SAMPLING PRIORITIES**OILED AND UNOILED AREAS**

Samples should be obtained from the potentially oiled and reference areas in the following sequence of decreasing priority (see also Figure 2-1).

- (1) Areas that have not been oiled but are likely to be within 24-48 hours.
- (2) Areas that have not been oiled, but may be 2-5 days hence.
- (3) Reference areas that are unlikely to be oiled.

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Priority category (1) is the critical sampling effort and must be completed before oil reaches the area. Priority categories (2) and (3) may be left to incoming Chevron EFT and consultants, assuming they will arrive within 48 hours. Also, sampling of animals in oiled areas can be left for a few days.

HABITATS

Within each of the potentially oiled areas, especially priority category (1), habitats should generally be sampled in the following sequence of decreasing priority. Field judgment may modify this sequence; for example, if oil will reach a sand beach within 3 hours and a wetland after 12 hours, then the sand beach could be sampled first.

- (1) Wetlands, mangroves.
- (2) Tidal mudflats.
- (3) Intertidal and shallow subtidal seagrass beds.
- (4) Sand/gravel beaches.
- (5) Rocky shores.
- (6) Marina floats, pier pilings, etc.

ANIMALS

Sampling should emphasize large, sedentary or sessile animals with the priority sequence as follows:

- (1) Mussels.

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- (2) Clams.
- (3) Other bivalves (e.g., oysters).
- (4) Snails.
- (5) Sand crabs and other burrowing crabs.
- (6) Ghost shrimp and other burrowing shrimp.

Mussels, clams, and other bivalves are much preferred because they do not quickly alter the bioaccumulated petroleum hydrocarbons and there is a large amount of scientific study and data on these animals.

SAMPLING METHODS**NOTIFICATION OF AGENCIES**

Prior to sampling, notify the state and federal fish and wildlife agencies responsible for managing the biota that Chevron first responders want to sample. The appropriate agencies will usually be the federal NOAA and/or USFWS and the state fish, game and wildlife or habitat protection agency. Often only a valid sports fishing license is required, however, in some instances a “scientific collector’s” permit and/or explicit, site/incident specific permission may be required.

SAMPLE LOCATIONS AND STATIONS IN A HABITAT

In each habitat, sample at least 3 stations if practical. These stations should be more or less equally spaced in the habitat, however ready access to the habitat may suggest alternative sample stations. The stations should be adjacent to the locations for sediment and possibly water samples (see Sections 6.0 and 5.0, respectively).

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At each station, collect at least 3 samples, if practical. These should be within the same general area (e.g., within a 100-ft. diameter), preferably in the mid/high-intertidal zone.

A sample should consist of at least 10, and preferably up to 25 individual animals. If the animals are small (<0.5 in), collect up to 50 for a sample, if practical.

Remove the animals from the rocky shore or surface of the sediment, and rinse the debris and sediment from them using (in order of preference) distilled water, clean tap water or clean seawater. For some clams, sand crabs, and other burrowing animals, remove them by shovel, clam gun or hand, and rinse the sediment from them.

Place rinsed animals in heavy duty aluminum foil, preferably pre-rinsed or washed with (in order of preference) Alconox detergent, distilled water or clean tap water, and wrap them in several layers.

Place a sample tag with the following information on each sample: sample number (each sample must have a unique number), sample type, common name, species and genus (if known to the sample collector) analysis to be performed, location, time and date of collection, and collector's name. Store the sample in a cooler at 4°C. Transport as soon as practical (and within 12 hours) to the analytical laboratory or a secure freezer where the samples can be stored at -20°C until a decision about subsequent analyses can be made.

LOGISTIC SUPPORT FOR CHEVRON EFT AND CONSULTANTS**8.0****LOGISTIC SUPPORT FOR CHEVRON EFT AND CONSULTANTS**

Chevron's first-responders are likely to be based at the facility from which the oil is spilled. They will generally be more familiar with the locally available logistic support, sources of equipment materials and supplies, and reliability of suppliers than will be the specialized consultants who will arrive within a day or two following Chevron's call-out and authorization to proceed. Therefore, the Chevron first-responders can notify the local suppliers and providers of logistic support to be prepared to mobilize very quickly once the consultants and contractors arrive and determine what will be required to implement the field sampling and laboratory analysis programs.

The first-responder's actions, in approximately chronological order, are:

- (1) Contact one of the previously identified Chevron EFT members to describe the status of spilled oil, resources and habitats at risk, and impacts so far.
- (2) Request recommendations from the EFT member regarding logistics to mobilize, and equipment and supplies to order or have on hand.
- (3) Contact consultants directly (with agreement from EFT member) to confirm or to determine the logistics, and equipment and supplies that are likely to be required immediately upon their arrival.
- (4) If (1) through (3) are not practical or contacts cannot be made quickly, then either alert or mobilize the major sampling and observation equipment required to collect the samples described previously in Sections 3.0-7.0. These include:
 - 1 helicopter for reconnaissance and for aerial video and photographic documentation of distribution of oil. (A fixed wing aircraft can be used, but it is much more limited and difficult.)

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SAMPLING
SECTION 6

- 1 or 2 boats of sufficient size and stability to operate in the oiled or potentially-oiled habitats, and with deck and cabin space for sample collecting and processing, lifting gear (optional), and with a captain knowledgeable of local conditions.
 - 3 vehicles, preferably a car, van and a 4-wheel drive pickup. If use of a vehicle on the beach is allowed, substitute a beach vehicle for the car.
- (5) Identify, and obtain or initiate mobilization of other logistic support, supplies and equipment including:
- Global positioning system (GPS) or other reliable system, for sample station location.
 - Bottles, coolers, sample types, chain-of-custody forms, and sample handling directions from local analytical chemistry laboratory.
 - Cellular phones, 2-way hand held radios and/or other appropriate means of communications.
 - Hand-held video camera or camcorder with a case of new video tapes.
 - Topographic maps, NOAA hydrographic charts, and local street/road maps for the affected areas.
 - 2 or more telephones on separate phone lines with speaker and conferencing capabilities.
 - Source of recent aerial photographs of the area. (Actual photographs will be even better).
 - Reliable aerial photographic firm that has color and infrared film.

APPENDIX A. SAMPLES OF FORMS AND DATA SHEETS**Appendix A: Samples of Forms and Data Sheets**

General Oil Spill and Environmental Information on Marine Releases

Natural Resource and Human Use Data for Marine Releases

Chain of Custody Record

GENERAL OIL SPILL AND ENVIRONMENTAL INFORMATION ON MARINE RELEASES

INCIDENT DATA

Apparent source: _____
Time and date: _____
Location: _____
Is spill continuing? Yes _____ No _____
Volume of discharge: Known _____ (barrels)
Estimate _____ (barrels)
Loss rate if continuing: _____
Size and location of slick: (plot on chart) _____
Observed rate and direction of slick movement: _____
Oil type: _____
Slick type: Continuous _____ Windrows _____ Other (specify) _____
Estimated average thickness: _____
Emulsification: _____

METEOROLOGIC DATA

Air temperature: _____
 Wind: Speed _____ Direction _____
 Precipitation: _____
 Visibility: _____
 Sky conditions: _____
 Forecast: _____

OCEANOGRAPHIC DATA

Water temperature: _____
 Currents: Type _____ Speed _____ Direction _____
 Sea state: _____
 Average wave height (crest to trough): _____

HYDROLOGIC DATA (near shore)

Wave height: _____ (m)

Currents:

Tidal (ebb): Velocity _____ Direction _____ Duration _____

Tidal (flood): Velocity _____ Direction _____ Duration _____

Slack water: _____

Longshore currents: Velocity _____ Direction _____

Tidal range: _____ Rising _____ Falling _____

Turbidity: _____

ADDITIONAL INFORMATION

[illegible]

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NATURAL RESOURCE AND HUMAN USE DATA FOR MARINE RELEASES

OFFSHORE AREAS

Sensitive Marine Resources

Seabirds: Present _____ Species _____ Number _____
 Waterfowl: Present _____ Species _____ Number _____
 Marine mammals: Present _____ Species _____ Number _____
 Other (specify): _____

Commercial Use

Industrial (specify type, location): _____
 Finfish (specify type, location): _____
 Shellfish (specify type, location): _____
 Other (specify type, location): _____
 Recreational/Navigational use: _____
 Other special features: _____

NEARSHORE/ONSHORE AREAS

Sensitive Marine Resources

Shorebirds: Present _____ Species _____ Number _____
 Waterfowl: Present _____ Species _____ Number _____ Nesting Area _____
 Marine mammals: Present _____ Species _____ Number _____
 Estuaries: _____
 Wetlands: _____
 Coral reefs: _____
 Rare, endangered, unique species; associations (specify species/type): _____
 Other (specify): _____

Commercial Use

Industrial (specify type, location): _____
 Finfishery (specify type, location): _____
 Shellfishery (specify type, location): _____
 Other: _____

Recreational Use

Harbors: _____
 Boating: _____
 Tourism: _____
 Beach uses: _____
 Other (specify): _____

APPENDIX B. GENERAL LIST OF SAMPLING EQUIPMENT AND SUPPLIES**Appendix B: General List of Sampling Equipment and Supplies**

The following lists identify some of the items that are necessary or desirable for ephemeral data sampling activities. The lists are not necessarily complete for each geographic location or oil spill. The first responders are encouraged to review the lists as a pre-spill planning action and modify the lists as appropriate. Also, after responding to an actual spill or to a spill drill, the first responders are encouraged to review the lists and modify them based on the field experience gained for their site(s).

Personal ItemsWater Sampling KitsWater and Sediment Sampling Equipment KitStation Location and Characterization Kit

PERSONAL ITEMS

These items should be maintained by each person and the items with a shelf life (e.g., batteries) replaced as necessary.

1 pr.—Safety shoes

2 pr.—Safety glasses

Appropriate clothing to protect from cold, wind, rain, sunburn, etc.

Sunscreen

Media Interview Guide Card

Watch

Chevron ID badge

Business cards

Change for phone and parking

Cellular phone and/or pager if available

[illegible]

WATER SAMPLING KITS

Each Rubbermaid 80-quart cooler may contain the following items. This cooler provides enough supplies for 2 or 3 sample stations. The cooler can be taken on the sampling platform (usually a boat).

- 8—2500 ml. wide mouth amber-glass bottles
- Reagent grade 6N HCl
- 8—Foam transport sleeves for 32 oz. bottles
- 12—40 ml. VOA vials with HCl
- 1—Foam transport blocks for VOA vials
- 1—Small rubber mat (for kneeling on in slippery areas)
- 1—Gallon-size zip lock bag containing 8 pairs nitrile gloves
- 1—Gallon-size zip lock bag containing:
 - 2—Chain-of-Custody forms
 - 2—Sheets of sample container labels for amber bottles
 - 3—Sheets of sample container labels for vials
 - 2—Custody seal labels
 - 6—Empty gallon-size zip lock bags
 - 1—Sampling instruction sheet (2 sided and laminated)
 - 1—List of vendors
 - 1—Safety data info (MSDS for HCl)
 - 1—Fine point black sharpie marker
 - 1—Medium point Papermate pen
- 1—Laminated kit inventory list (located in pocket adhered to inside of cooler)
- 1—Copy of Guidance Manual
- 1—Additional 80-quart cooler with frozen “Blue Ice” for storing samples in the field.

WATER AND SEDIMENT SAMPLING EQUIPMENT KIT

The water and sediment sampling equipment kit in a Rubbermaid Actionpacker storage container contains the items listed below. This kit supplements the water sampling kit described on the previous page with additional items that may be required for sampling efforts.

- 2—Rubbermaid mini buckets
- 3—Spools nylon twine (375 ft.)
- 1—Utility knife
- 1—Small hand held shovel
- 12—Disposable plastic/wooden scoops
- 2—Stainless steel scoops
- 1—Bottle Fast Orange Hand Cleaner (15 fl. oz.)
- 2—All weather disposable cameras (27 exp.)
- 2—Rolls paper towels
- 1—Box/33-gallon plastic garbage bags
- 1—Box/20-gallon size heavy duty zip lock bags
- 1—Box/20-gallon size regular zip lock bags
- 1—Box/20-quart size heavy duty zip lock bags
- 1—Box/50 disposable nitrile gloves size-large
- 1—Box/100 disposable nitrile gloves size-large
- 1—Box with 36 leftover nitrile gloves from sampling kits
- 2—Rolls of duct tape (2" x 20 yds.)
- 1—Small jar of Alconox soap
- 1—Non-breakable 1-gallon container of methanol or methylene chloride
- 4—Small empty jars
- 1—Sentry First Aid Kit
- 2—Bottle brushes
- 1—Current tide book
- 1—Flashlight with extra batteries and bulbs
- 1—Roll of Neon Orange flagging tape
- 1—Metal clipboard w/one inch storage area
- 1—Mini cassette recorder w/three blank tapes (batteries included)
- 1—Green plastic file box containing:
 - 12—Chain-of-Custody forms
 - 8—Blank Fed Ex labels w/plastic pockets
 - 2—Packs I-CHEM sample container labels (stock #503)
 - 1—Pack I-CHEM custody seal (stock #500)
 - 1—Narrow ruled canary tablet
 - 1—Pad grid paper
 - 2—"Rite-in-Rain" field notebooks

STATION LOCATION AND CHARACTERIZATION KIT

This list is primarily for beach and shoreline sample stations. Additional items such as wooden or rebar stakes and other items easily obtained at local stores or the Chevron facility are not necessarily listed here.

- 1—Compass
- 1—Can fluorescent spray paint
- 1—"Rite-in-Rain" field notebook
- 10—Plastic stakes
- 1—Roll fluorescent flagging tape
- 2—Disposable cameras – panorama view (ASA 400 if possible)
- 2—Disposable cameras – standard view (ASA 400 if possible)
- 1—Video camera (if available)
- 1—100-foot fiberglass tape
- 2—Waterproof pens
- 2—Pencils
- Local street maps (e.g., Thomas Guide) and 7.5' USGS topographic map of region
- Small sledge hammer to drive in stakes

[illegible]

APPENDIX C. CHECKLIST FOR FIELD SAMPLING**Appendix C: Checklist for Field Sampling to Collect NRDA Ephemeral Samples**

The checklists provided here summarize the priority activities, general requirements and the major steps for field sampling and sample handling for: (a) oil and spilled oil; (b) distribution and amount of oil; and (c) water, sediment and biological samples in unoiled and oiled areas. More detail is provided in Sections 3.0-7.0 of the manual. Depending upon site and spill-specific conditions, each checklist may be subject to change based on the best judgment of the on-scene first-responders.

PRIORITY OF ACTIVITIES

- Contact Chevron EFT and/or consultants for advice.
- Assign a person to full-time documentation activities
- Compile information on site and spill characteristics
- Collect source oil and spilled oil samples.
- Photo and video document distribution and amount of oil.
- Collect water, beach sediment and biological samples.
- Obtain logistic support and equipment for incoming consultants.

GENERAL REQUIREMENTS

- Follow written sampling protocols and document deviations from protocols.
- Decontaminate all sampling equipment between samples.

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SAMPLING
SECTION 6

- Mark and document sample station locations.
- Complete documentation in field as program proceeds.
- Process and store samples to prevent cross-contamination.
- Store and transport samples as described in sampling protocols.
- Transport samples to secure storage or to laboratory as soon as practical.
- Maintain unbroken chain-of-custody of samples or data.
- Document all field activities, observations, samples, data collected, and similar information, and provide original of documents to documentation specialist.

SOURCE OIL AND SPILL OIL

- Collect “neat” oil from the source, leading edge of oil slick on water, and oiled beaches in that order, if conditions and safety permit.
- Collect three replicate samples at each station, if practical.
- Sampler may be a scoop, bomb sampler, spoon or similar device.
- Use clean sampling equipment and clean it between samples.
- Collect 100-ml or enough to fill sample container.
- Use sample containers provided by laboratory or use cleaned glass jar with air-tight lid.
- Keep sample on “Blue-Ice” at 4°C in field and store at –20°C.

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DISTRIBUTION AND AMOUNT OF OIL

- Use commercial aerial photography or photogrammetry survey firm to obtain color and infra-red (if available) photographs.
- Obtain complete coverage of oil on water twice per day; include oil on shoreline if time permits.
- Specify 60% forward and 30% side overlap of 9" x 9" format at a scale of 1" = 500' over water and 1" = 200' for shoreline.
- Document date, time, and location (via GPS if possible) of each frame or, at minimum, of the beginning and end of the flight line.
- If time and resources, permit, conduct aerial video survey from a helicopter at 750-1,000' elevation to document amount of oil on the water surface.
- Document time, date, and location of video tape records.

WATER SAMPLING

- Sample in priority order in: the sensitive areas potentially affected with hours to 1-2 days; oiled areas (main slick and edge of slick); and reference areas.
- Collect three replicate samples at 1-m below water surface at each station and at least once per day.
- If available, use a "Sub-surface Grab Sampler" or equivalent which meets the requirements specified in Section 5.0. If not, use available commercial oceanographic water samplers.
- Wash sampler with solvent or detergent before each sample.

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SAMPLING
SECTION 6

- Collect at least 1-liter of water per sample to be divided for separate TPH/PAH and volatile organic analyses.
- Follow detailed procedures in manual for subdividing the sample for these 2 analyses.

SEDIMENT SAMPLING

- Sample in priority order in: beach areas potentially affected within hours to 1-2 days; areas that may be oiled in 2-5 days; and reference areas.
- Within these areas, sample habitats in priority order: wetlands and mangroves, tidal mudflats, and sand/gravel beaches.
- Samples collected once, preferably on first day.
- Sample stations to be located at same tidal elevation.
- Collect at least three replicate samples within a 5-m diameter.
- Use core, preferably stainless steel, to obtain sample 10-cm long with 2.5 to 5.0 cm diameter. In gravel/cobble, dig out sample to 10-cm depth.
- Sample to be placed in cleaned jar or retained in core and frozen on dry ice if possible.

BIOLOGICAL (ANIMAL) SAMPLING

- Sample in priority order: the areas potentially affected within hours to 1-2 days; areas potentially oiled in 2-5 days; and reference areas.
- Within these areas, sample habitats in priority order: wetlands and mangroves, tidal mudflats, intertidal and shallow subtidal seagrass beds, sand/gravel beaches, rocky shores, and man-made structures.

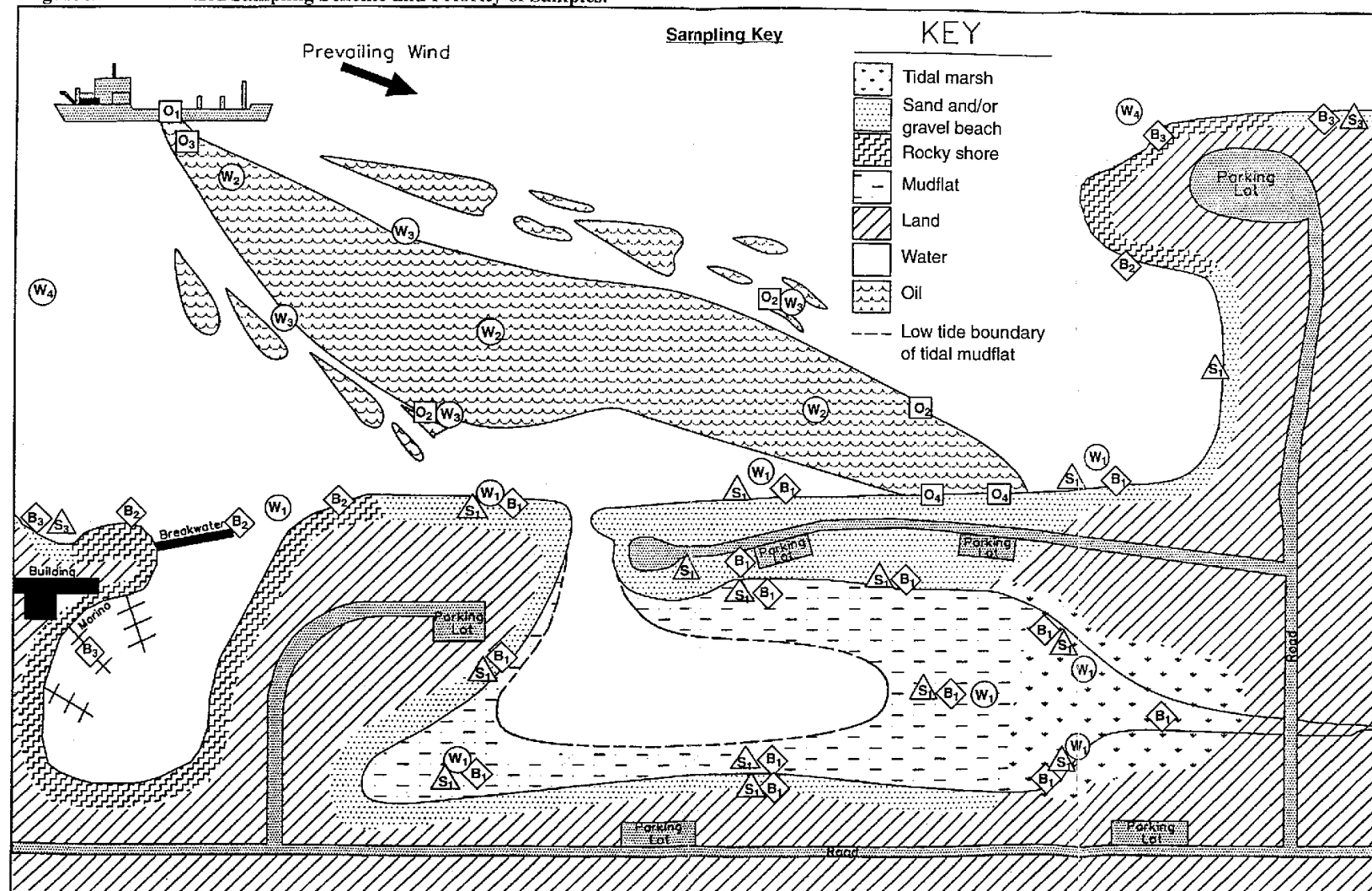
TEXAS STATE APPENDIX

SAMPLING
SECTION 6

- Within habitats, preference for animals to sample is mussels or clams first, other bivalves next, then burrowing crabs, and burrowing shrimp.
- In each habitat, sample 3 stations, more or less equally-spread in the habitat if practical.
- Collect 1 and preferably 3 samples per station, within a 100-ft. diameter in the mid to lower-high intertidal zone, if practical.
- Collect 10-25 animals per sample, rinse with distilled water, and wrap in aluminum foil.

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Figure 2-1. Generalized Sampling Scheme and Priority of Samples.



Key to Figure 2-1 – Generalized Sampling Scheme and Priority of Samples**W = Water Samples**

W₁ = sensitive areas about to be oiled

W₂ = main slick

W₃ = edge of slick

W₄ = reference areas

S = Sediment Samples

S₁ = beaches about to be oiled

S₂ = oiled areas (may be left to Chevron EFT or consultants)

S₃ = reference areas (may be left to Chevron EFT or consultants)

O = Oil Samples

O₁ = source oil

O₂ = fresh oil at leading edge of main slick

O₃ = fresh oil near source in main slick

O₄ = beached oil (may be left to Chevron EFT or consultants)

B = Biological Samples

B₁ = areas about to be oiled immediately

B₂ = areas potentially oiled in next few days

B₃ = reference areas (may be left to Chevron EFT or consultants)

SPILL IMPACT

SECTION 7 SPILL IMPACT

SPILL IMPACT CONSIDERATIONS 1

 Site Conditions 1

 Trajectory Analysis 1

 Information to Provide to Consultants 1

 Sources of Trajectory Analysis 2

 National Oceanic and Atmospheric Administration..... 3

 Weather Forecasts 3

 Surveillance Methods 3

 Environmental/Socioeconomic Sensitivities 3

 Staging Areas..... 5

 Wildlife Protection 5

SPILL IMPACT CONSIDERATIONS

There are numerous factors that must be considered by the Incident Commander and the Response Teams when planning spill response activities. This Section provides summary information on the various planning concerns and Environmental Sensitivity Maps that demonstrate these spill impact considerations for the Response Zone. Additional information on these factors is provided in the Volume 1 Core Manual.

Site Conditions

The pipeline segments in this Response Zone traverse several different types of terrain including shorelines, open water, tidally affected marshlands/wetlands and mangroves. The spill site may have a number of characteristics that require special consideration when developing an action plan for spill response. The Environmental Sensitivity Maps in this State Appendix Plan should be referenced for an overview of the terrain surrounding the site and the potentially effected sensitivities.

Trajectory Analysis

Immediately upon being notified of a spill to water, consider the following variables:

- Current wind information
- Known currents
- Spill size
- Expected duration

If appropriate, contact a third party to perform a detailed trajectory analysis.

Once the potential areas of impact are determined, use the environmental sensitivity maps to identify areas of special biological sensitivity to determine the appropriate response mode. Upon activation of the proper equipment, deploy as appropriate to effectively respond to site-specific circumstances.

Information to Provide to Consultants

Trajectory will initially need the following information (typically provided by the Planning Section):

- Location where spill occurred (geographic or LORAN C coordinates)
- Time of spill
- Speed and direction of the wind and current at the time of the spill
- Present wind and current information and present location of leading edges of spill (assumes a few hours between time of spill and notification of consultant)
- Approximate API gravity of the product

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With this information and with periodic updates from field personnel (company, contract and agency) of the input variables (such as wind, sea state and spill size), trajectory consultants can help predict spill movement. They can also simulate trajectories based upon worst case current and wind predictions. Trajectories and mapping can be faxed or sent via email to COMPANY, or if needed, provided live in the Unified Command Post.

Sources of Trajectory Analysis

The following sources can provide trajectories for predicting oil spill movement. Company and the Federal or State On-Scene Coordinator can use these predictions for containment, cleanup and protection operations.

The Response Group's main contact:
Roy Barrett
13939 Telge Rd.
Cypress, TX 77429

Business: 281-880-5000
Cell: (b) (6)
Fax: 281-880-5005
rbarrett@responsegroupinc.com

S. L. Ross Environmental Research, Ltd.
717 Belfast Road, Suite 200
Ottawa, Ontario Canada K1G0Z4

Continental Shelf Associates, Inc.

Continental Shelf Associates, Inc. (CSA), an environmental consulting firm has offices in the following locations:

Corporate headquarters:
8502 SW Kansas Ave
Stuart, FL 34997

Field Office:
3300 High Court
Wheat Ridge, CO 80003

CSA's computer model is a modification of the USCG Water Port Model. The real-time methodology used for predicting spill movement is as follows:

The model predicts the trajectory of an oil spill based on winds and currents acting on the centroid of the spill. Effects of weathering (spreading, evaporation, dissolution, emulsification, sedimentation, dispersion, biodegradation and autoxidation) are not modeled. The model assumes that, in the absence of wind, the oil slick will be transported at the same speed and in the same direction as the current. In the absence of a current, the slick will be transported in the same direction as the sustained wind but at a speed of approximately 3.5% of the wind speed. When both wind and current are present, the trajectory of the oil slick at any given time will be the vector sum of the wind and current forcing functions.

TEXAS STATE APPENDIX**SPILL IMPACT
SECTION 7****National Oceanic and Atmospheric Administration**

The National Oceanic and Atmospheric Administration (NOAA) scientific support coordinator (SSC) is officed at the USCG. The coordinator is in New Orleans, LA:

If unavailable, contact NOAA directly in Seattle, WA:

Weather Forecasts

Expected weather conditions can be obtained from the National Weather Service or from one of the following private sources.

A. H. Glenn and Associates
New Orleans, LA

ALERT Weather Services, Inc.
Lafayette, LA

Ed Roy Limited
World Wide Web access: <http://www.nor.chevron.com/Weather>
Lafayette, LA

National Weather Service
Slidell, LA

Surveillance Methods

If weather permits, conduct aerial surveillance using Company-owned or leased helicopters or seaplanes based along the Gulf Coast. Conduct surface surveillance using crewboat, supply or utility vessels that may be chartered.

Environmental/Socioeconomic Sensitivities

Environmental and socioeconomic sensitivities are of extreme importance when planning a response effort. The protection of the public and the environment, as well as the various socioeconomic sensitivities, must be promptly addressed in order to mitigate the extent of damage and minimize the overall impact of the clean-up effort.

All environmental and socioeconomic sensitivities are worthy of protection but must be prioritized during a response effort.

The Environmental Sensitivity Maps detail the location of the environmental and socioeconomic sensitivities in each Response Zone. The following describes a number of the sensitivities which may be impacted by a spill and that should be considered in planning the response operations:

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SPILL IMPACT
SECTION 7

Water Intake Points:

(b) (7)(F), (b) (3)

Major Recreational Areas:

- A discharge effecting these areas may pose a public safety/health risk during a response effort.
- Shoreline access for personnel and equipment deployment (boats, boom, etc.) is typically available in these areas.

Marinas:

- These areas have a high degree of public exposure (personal and property) and should be boomed for protection.
- Boat and other water-deployed equipment can often be deployed in these areas.

Environmental:

- Environmentally sensitive areas are prevalent throughout any marine and/or terrestrial environment and may be effected by any spill incident.
- Environmentally sensitive areas subjected to stress and sudden change can be severely damaged. All means of exclusion/diversion should be utilized during a response effort to minimize the impact on these areas.
- Critical areas to protect are identified on the Environmental Sensitivity Maps. The areas are classified as being of high, moderate and low sensitivity to oil impact. Federal and state authorities may further clarify these categories at the time of the response. The categories are defined as follows:

High Sensitivity
<ul style="list-style-type: none">• Areas that are high in productivity, extremely sensitive, or inhabited by threatened/endangered species.• Areas that consist of shallow seagrass flats, mangroves, tidally influenced marshes/wetlands and sheltered tidal flats with vegetated margins.• Areas that are abundant in many species and are very difficult to clean and rehabilitate.

Moderate Sensitivity
<ul style="list-style-type: none">• Areas that are less sensitive and are able to partially resist the effects of oil.• Areas that consist of the riparian zone along freshwater rivers with saltwedge, oyster reefs, exposed tidal flats, dredged spoil deposits and partially exposed bay margins.

TEXAS STATE APPENDIX

SPILL IMPACT
SECTION 7

Low Sensitivity
<ul style="list-style-type: none">• Areas of low productivity and/or high energy along with man-made structures.• Areas that consist of sand-shell substrate, fine-grained sand, seawalls, jetties, bulkheads, revetments and erosional scarps.

Historical Areas:

- These areas typically have high visibility.
- Properties listed in the National Register of Historic Places & Natural Landmarks have been considered for inclusion on the Environmental Sensitivity Maps (Note: No historic areas have been identified in this region).

Residential Areas:

- These are areas at high public impact and may warrant evacuation in extreme cases.
- Cleanup must be performed with extreme caution due to extensive public exposure.
- These areas can result in claims due to safety/health, loss of use and damage may occur from these areas.

State and National Wildlife Management Areas and Refuges:

- These areas have a high degree of exposure to threatened/endangered species and many other types of wildlife.
- Cleanup efforts are delicate and of very high priority in these areas.

Staging Areas

Personnel and equipment staging areas will be required for the response operation. Potential staging areas have been identified on the Environmental Sensitivity Maps. The following qualities should be evaluated when establishing staging/access areas:

- Access to waterborne equipment launching facilities.
- Access to public services utilities (electricity, potable water, public phone, rest room and wash room facilities, etc.)
- Access to open space for staging/deployment of heavy equipment and personnel.
- Access to the environmental and socio-economically sensitive areas that are projected for impact.


Wildlife Protection


The areas adjacent to the facilities covered by this plan have an abundance of marine and terrestrial life that could be potentially affected by an oil spill. The U.S. Fish and Wildlife Service and State authorities will provide guidance and resources in the rehabilitation and protection of wildlife.


TEXAS SENSITIVE INFORMATION/MAPS

SECTION 8B SENSITIVE INFORMATION/MAPS**HARRIS COUNTY MAP 5****HARRIS COUNTY MAP 6****HARRIS COUNTY MAP 7****HARRIS COUNTY MAP 8****HILL COUNTY MAP****HOUSTON COUNTY MAP****JEFFERSON COUNTY MAP 1****JEFFERSON COUNTY MAP 2****JEFFERSON COUNTY MAP 3****LIBERTY COUNTY MAP 1****LIBERTY COUNTY MAP 2****NACOGDOCHES COUNTY MAP 1****NACOGDOCHES COUNTY MAP 2**

 S# - SURFACE WATER INTAKES

 G# - GROUND WATER SUPPLIES

 B# - BOAT RAMPS

 M# - MARINAS

 W# - WILDLIFE AREAS

 R# - STATE PARKS/
RECREATION AREAS

 F# - NATIONAL/STATE FORESTS

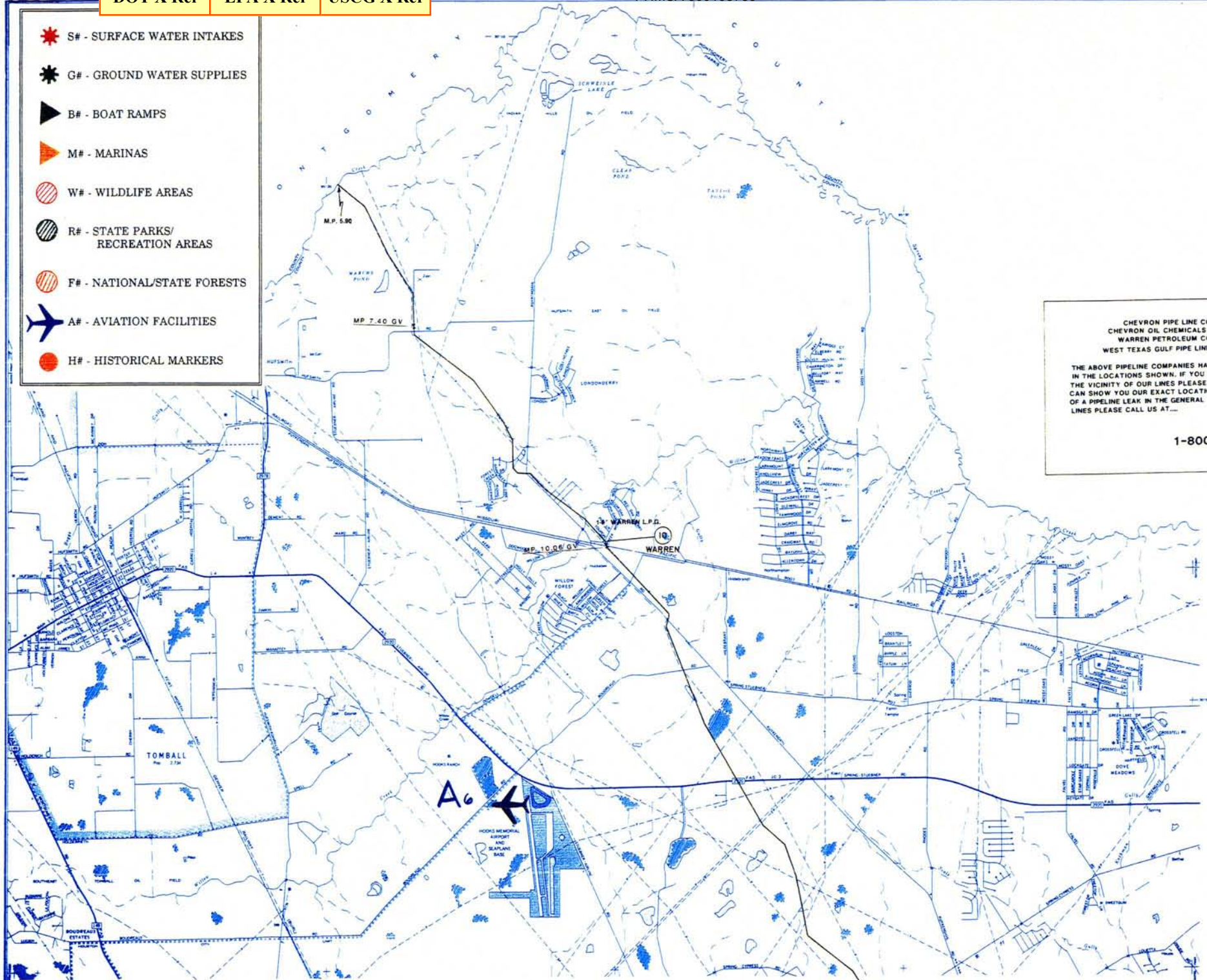
 A# - AVIATION FACILITIES

 H# - HISTORICAL MARKERS

CHEVRON PIPE LINE COMPANY
CHEVRON OIL CHEMICALS COMPANY
WARREN PETROLEUM COMPANY
WEST TEXAS GULF PIPE LINE COMPANY

THE ABOVE PIPELINE COMPANIES HAVE BURIED PIPELINES
IN THE LOCATIONS SHOWN. IF YOU PLAN TO EXCAVATE IN
THE VICINITY OF OUR LINES PLEASE CONTACT US SO WE
CAN SHOW YOU OUR EXACT LOCATION. OR IF YOU KNOW
OF A PIPELINE LEAK IN THE GENERAL VICINITY OF THESE
LINES PLEASE CALL US AT...

1-800-762-3404

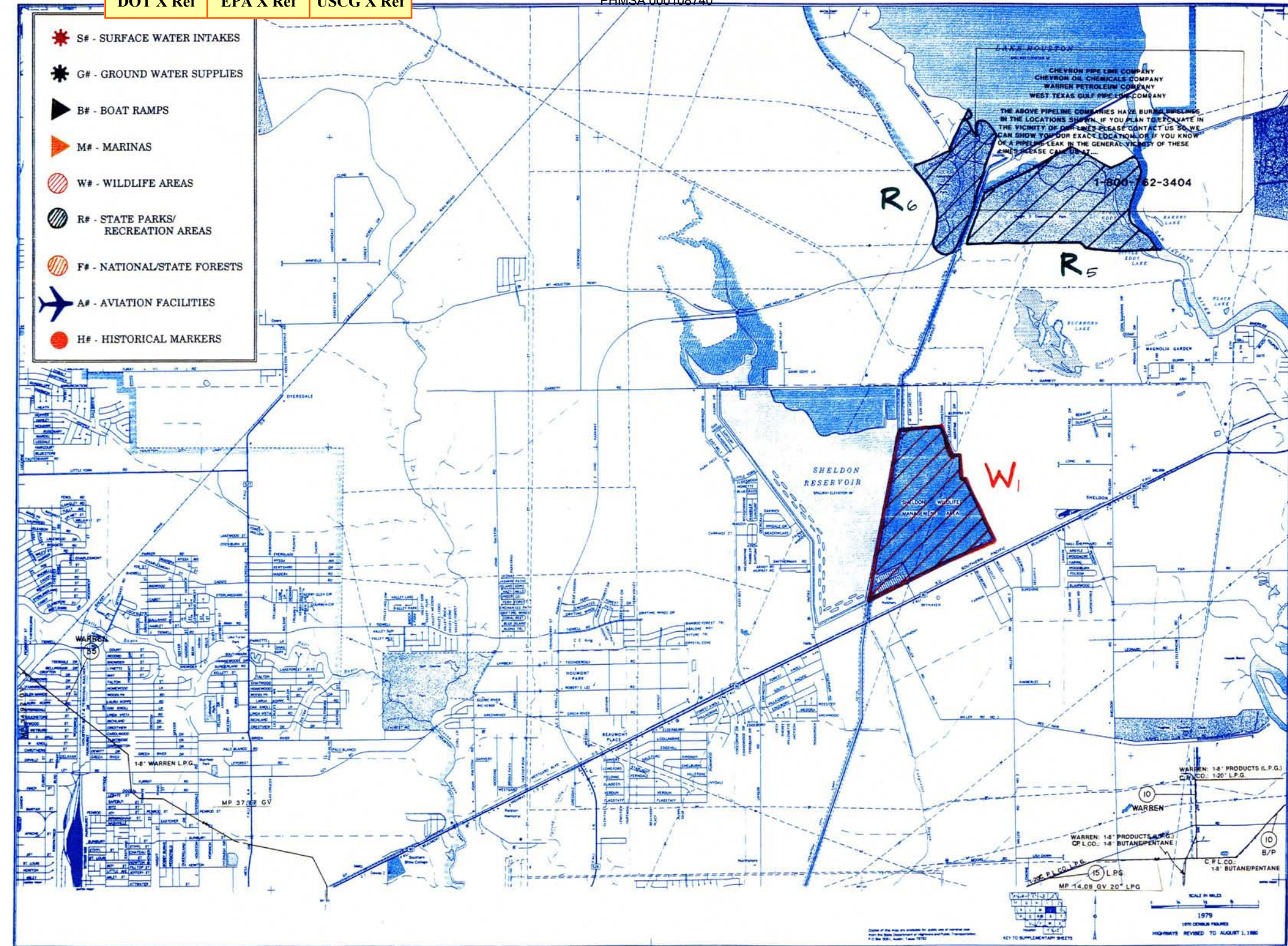


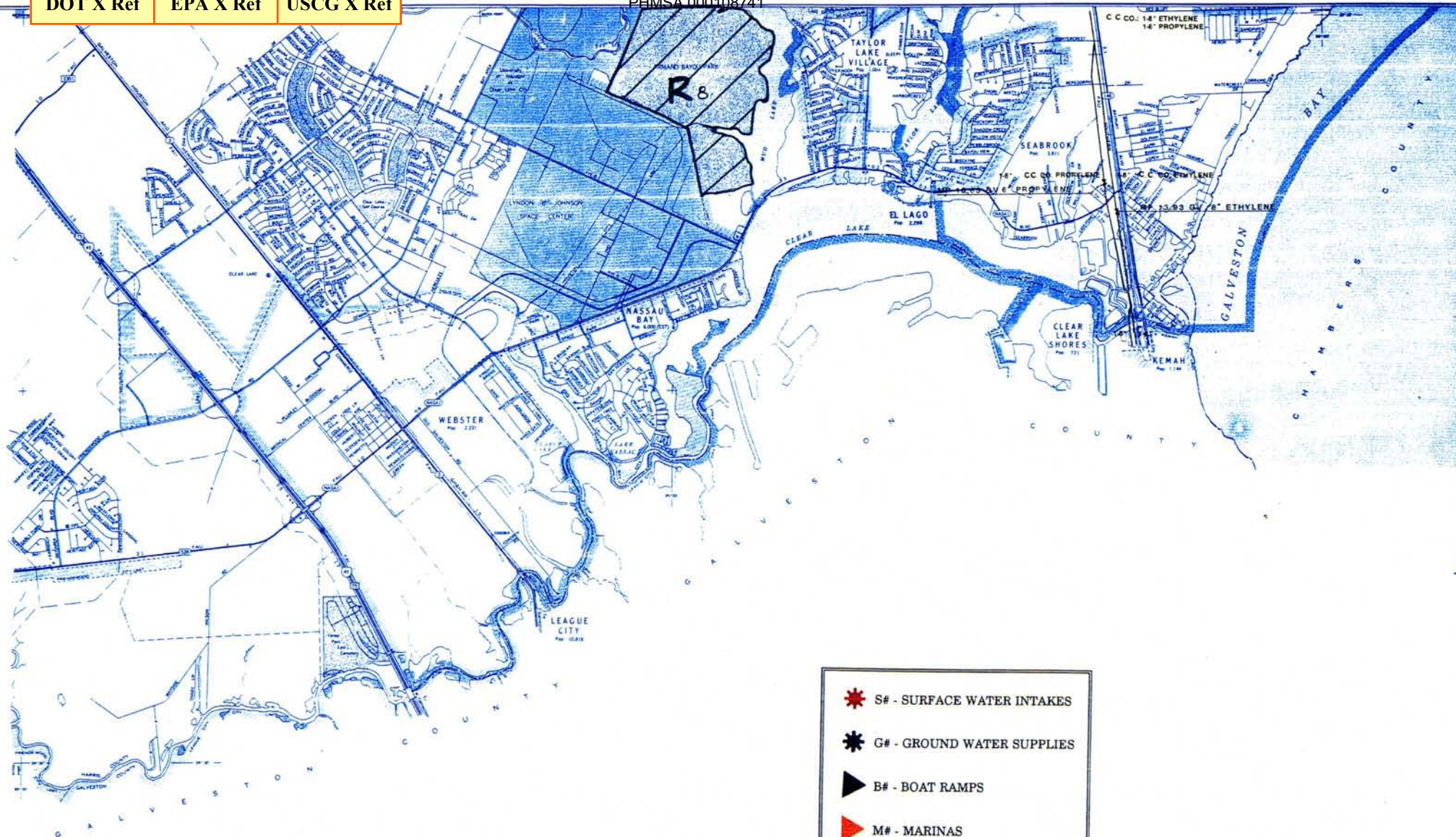
KEY TO SUPPLEMENTARY SHEET

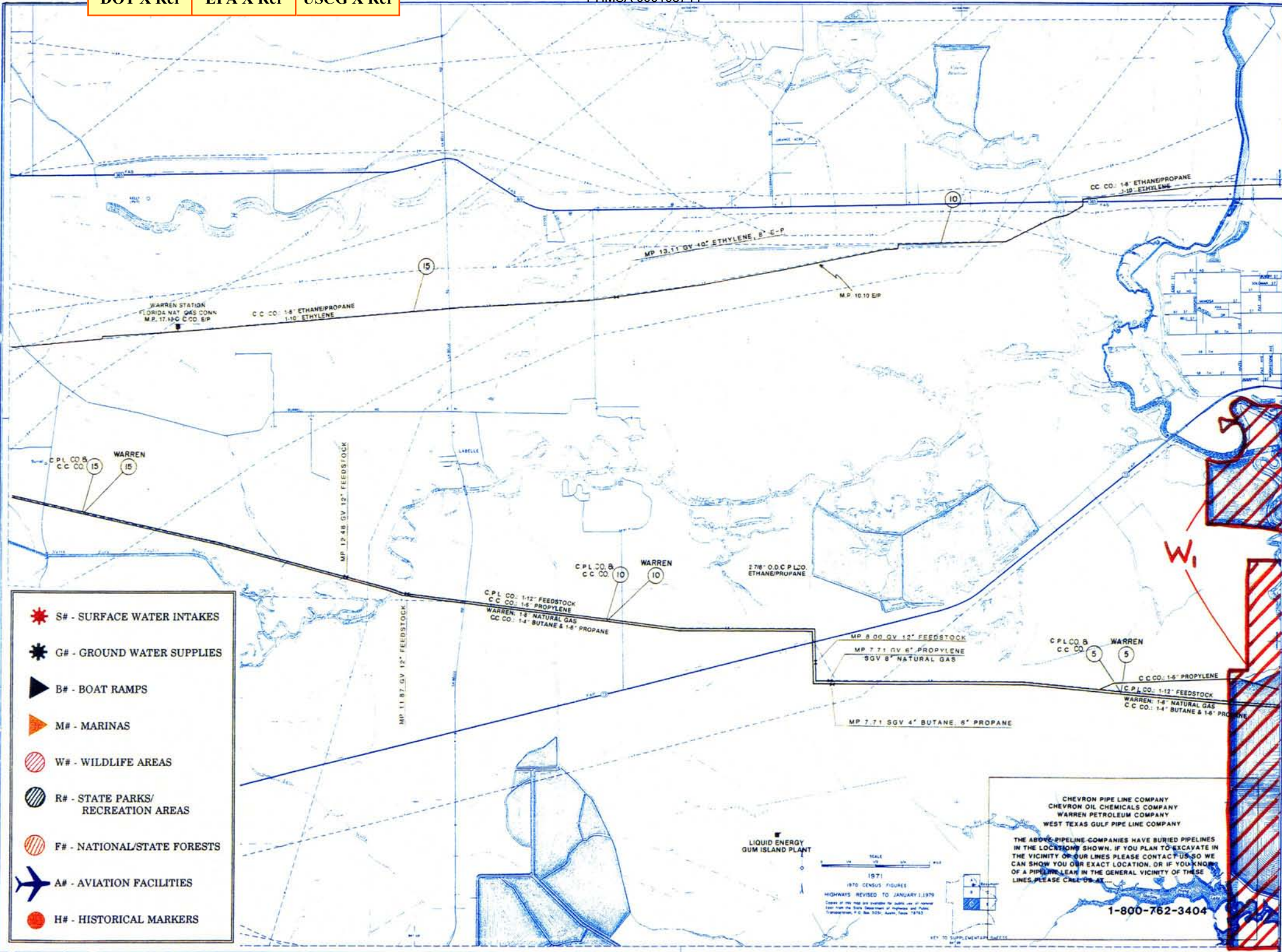
SCALE IN MILES
1979
1970 CENSUS FIGURES
HIGHWAYS REVISED TO AUGUST 1, 1980

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from the State Department of Information and Public Transportation
P.O. Box 999, Austin, Texas 78768

-  S# - SURFACE WATER INTAKES
-  G# - GROUND WATER SUPPLIES
-  B# - BOAT RAMPS
-  M# - MARINAS
-  W# - WILDLIFE AREAS
-  R# - STATE PARKS/
RECREATION AREAS
-  F# - NATIONAL/STATE FORESTS
-  A# - AVIATION FACILITIES
-  H# - HISTORICAL MARKERS









TEXAS SENSITIVE INFORMATION/MAPS

SECTION 8C SENSITIVE INFORMATION/MAPS

NAVARRO COUNTY MAP

PARKER COUNTY MAP

RUSK COUNTY MAP

SMITH COUNTY MAP

TARRANT COUNTY MAP

TYLER COUNTY MAP

UPSHUR COUNTY MAP

SABINE & GALVESTON SENSITIVE INFORMATION/MAPS

SECTION 8E SENSITIVE INFORMATION/MAPS**SABINE & GALVESTON SENSITIVE INFORMATION AND MAPS**

Map Key

Jefferson County Overview Map

Texas Point/Sabine Jetties Task Force 4 Map

Texas Point/Sabine Jetties Task Force 5 Map

Texas Point/Sabine Jetty Task Force 3 Equipment List

Texas Point/Sabine Jetty Task Force 4 Equipment List

Texas Point/Sabine Jetty Task Force 5 Equipment List

Cameron Parish Area 1 Map

Galveston County Map

West Galveston Beach Division Map

West Galveston Beach Task Force 1 Map

Galveston County Environmental Sensitivities



Coast of Texas



Environmental Sensitivity Index

- 1 - Exposed walls and other solid structures
- 2A - Scarps and steep slopes in clay
- 2B - Wave-cut clay platforms
- 3A - Fine-grained sand beaches
- 3B - Scarps and steep slopes in sand
- 5 - Mixed sand and gravel beaches
- 6A - Gravel Beaches
- 6B - Exposed riprap structures
- 7 - Exposed tidal flats
- 8A - Sheltered solid man-made structures
- 8B - Sheltered riprap structures
- 8C - Sheltered scarps
- 9 - Sheltered tidal flats
- 10A - Salt and brackish water marshes
- 10B - Freshwater marshes
- 10C - Freshwater swamps

Human Use Resources

- Aquaculture site
- Beach access
- Boat launch
- Heliport
- Lighthouse
- Marina
- USCG facility
- Water intake point
- Parks/wildlife management areas

Biological Resources

- Diving birds
- Gulls/terns
- Passerine birds
- Shorebirds
- Pelagic birds
- Raptors
- Wading birds
- Waterfowl
- Dolphins
- Rodents
- Alligators
- Other reptiles/amphibians
- Turtles
- Fish
- Shrimp
- Bivalves
- Crabs
- Gastropods
- Upland/wetland plants
- Submerged aquatic vegetation
- Threatened/Endangered

Streetmap USA

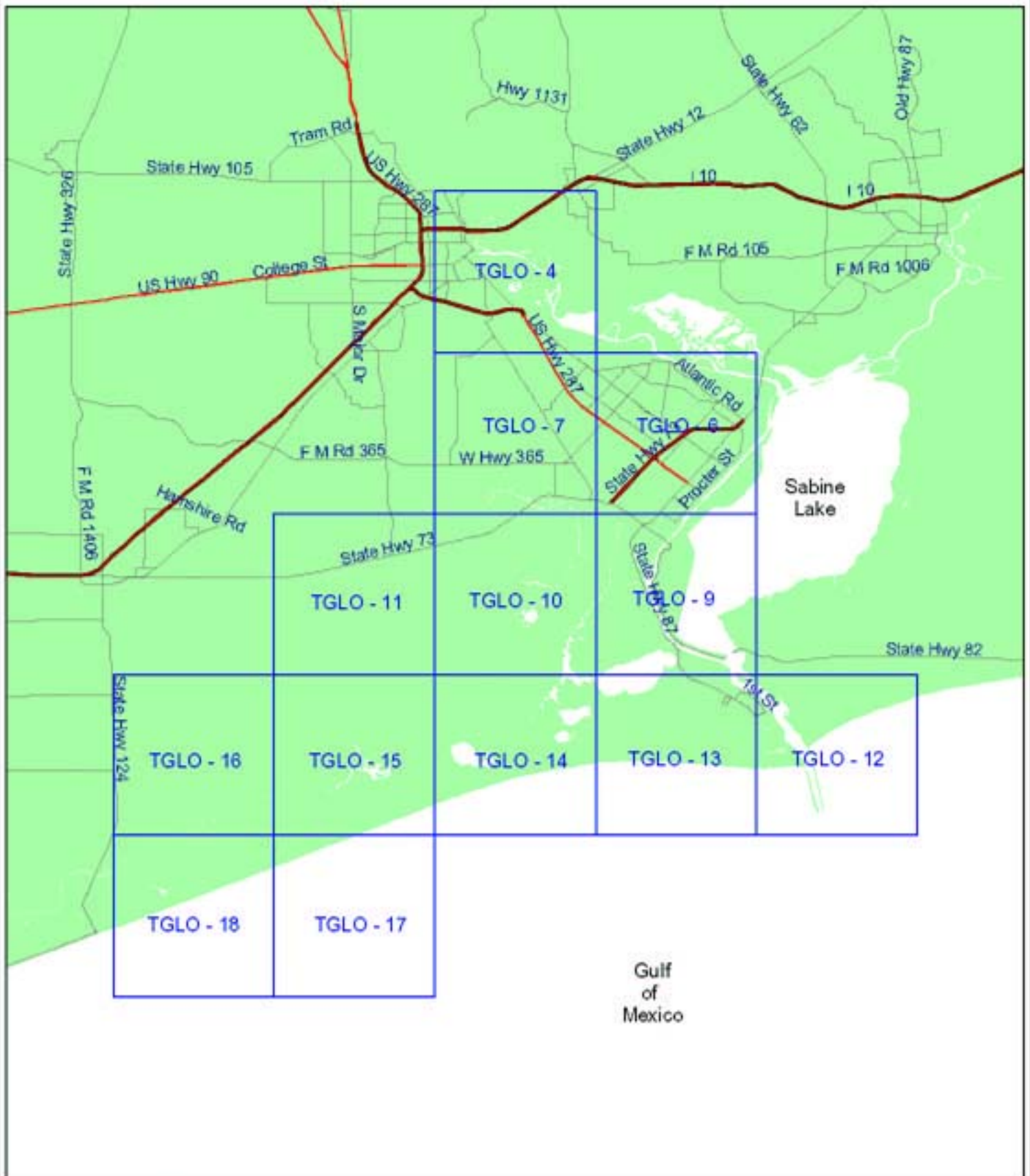
- Highway
- Primary road
- Secondary/connecting road
- Local road
- Access road

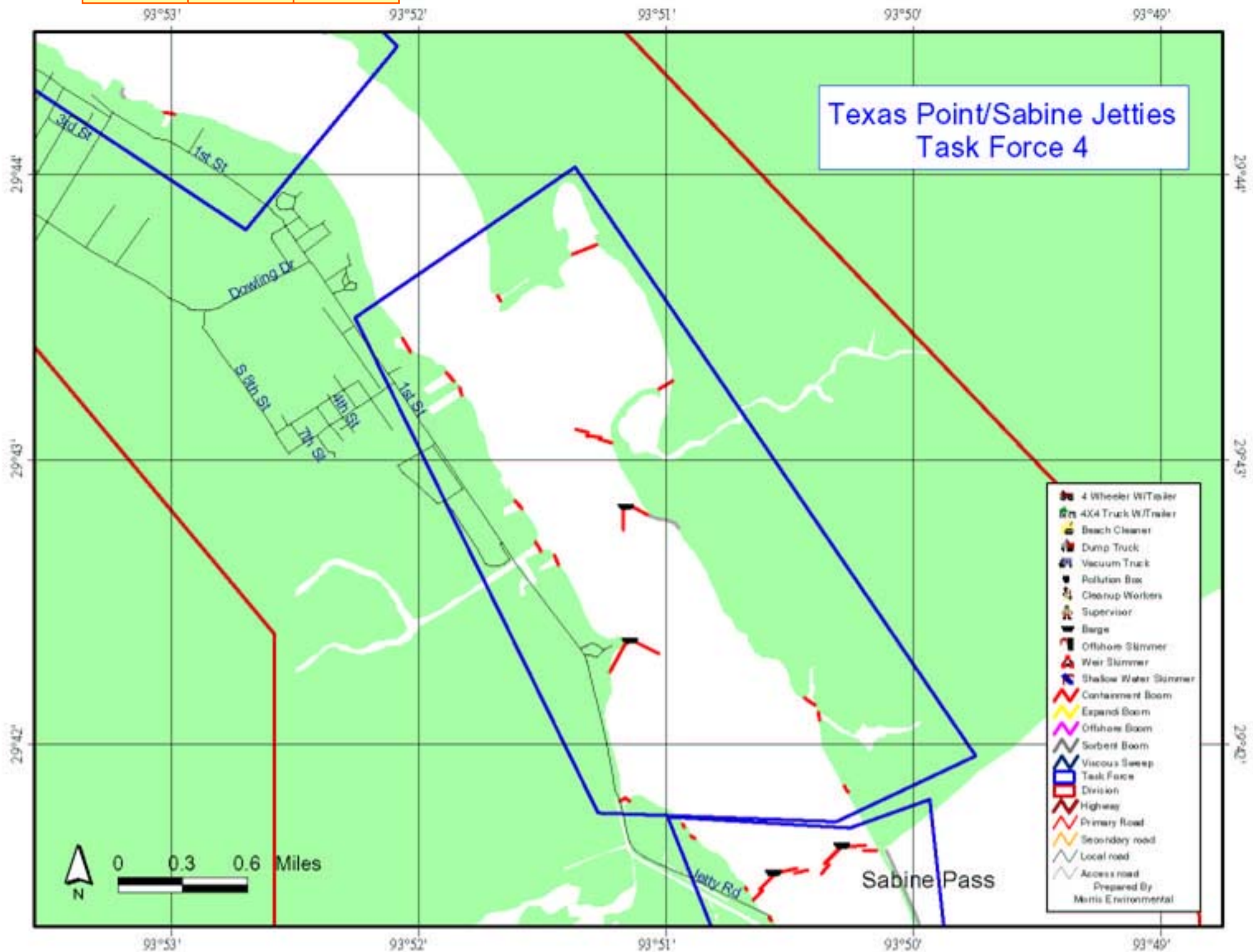
prepared by

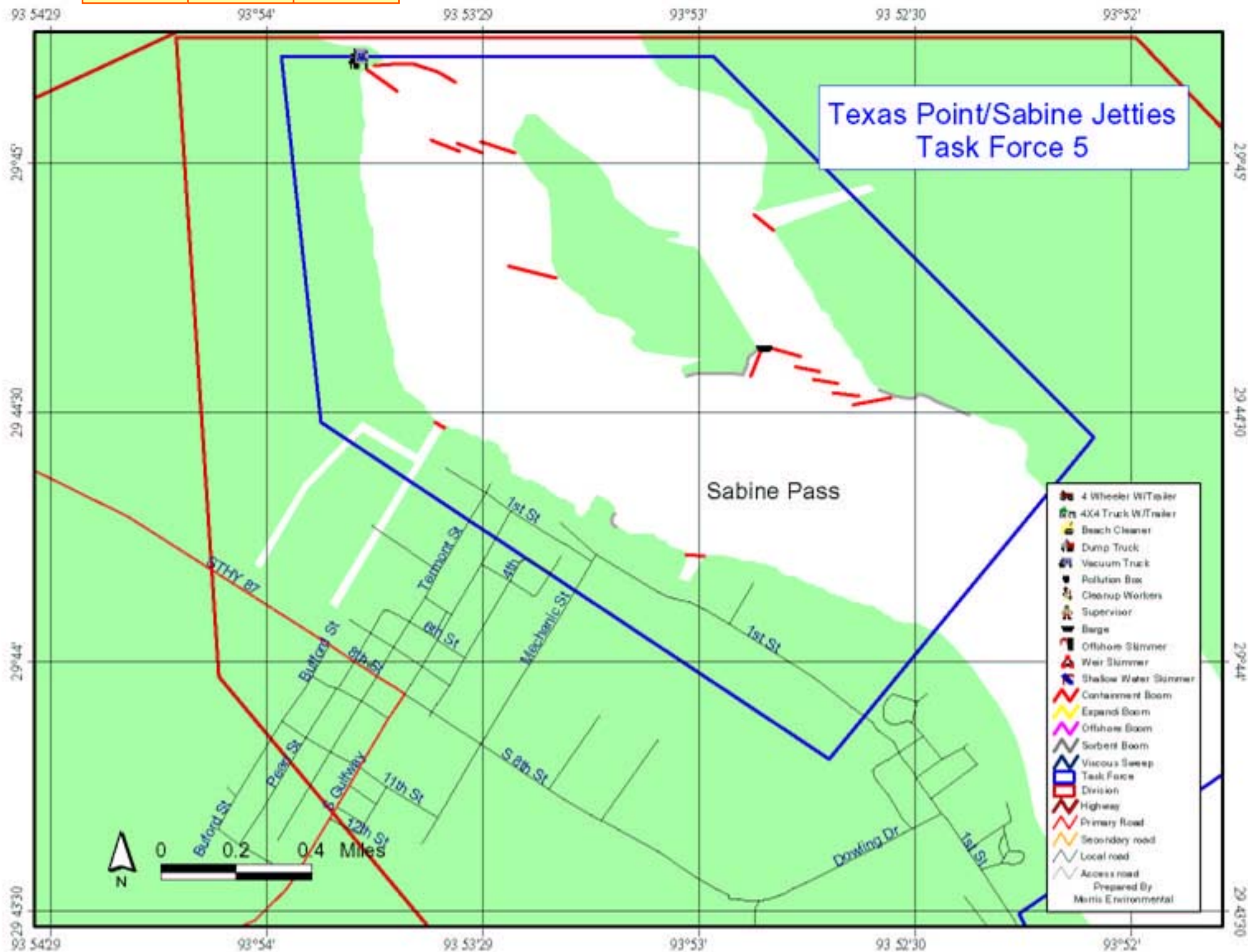
Morris Environmental, Inc.



Jefferson County Overview Map



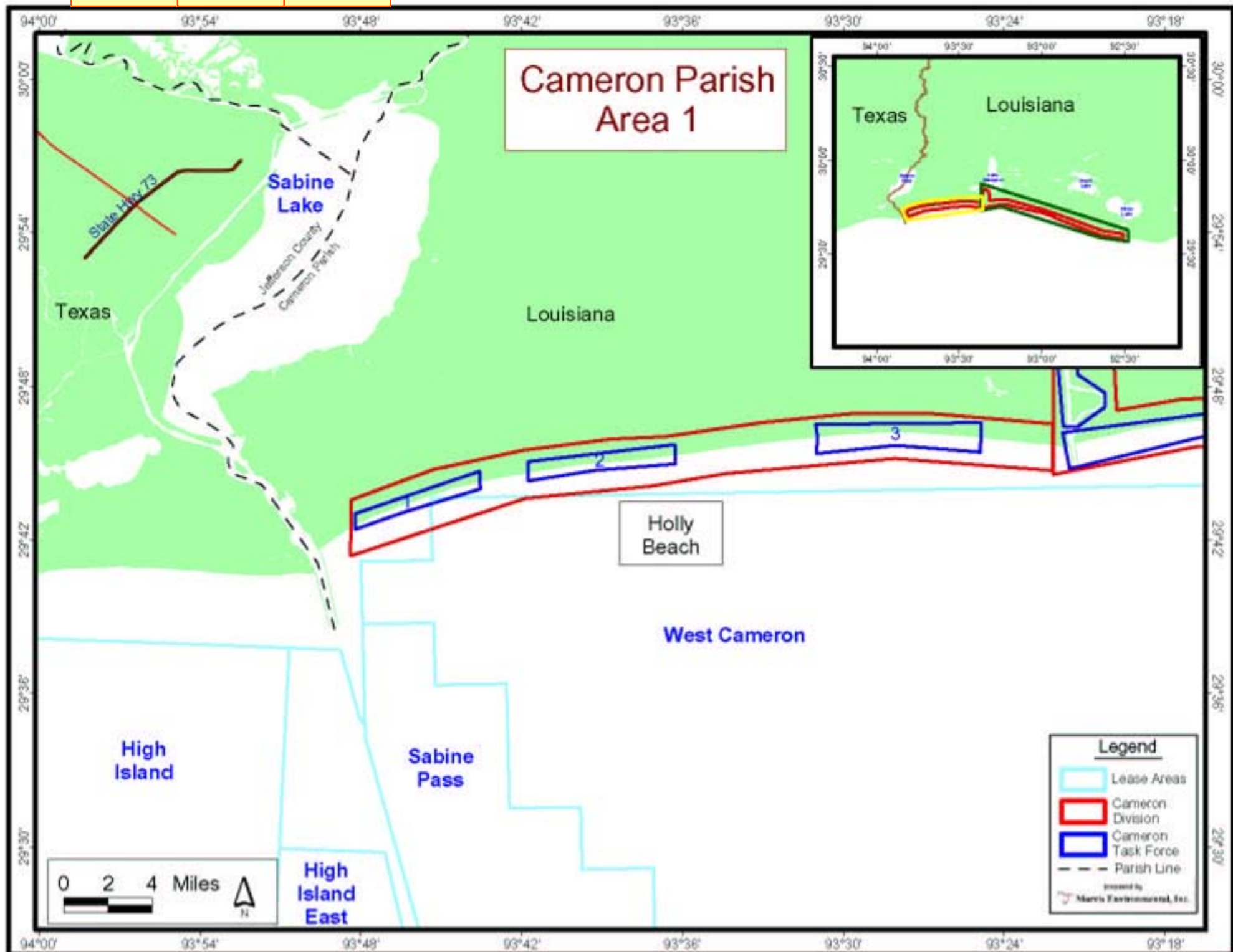




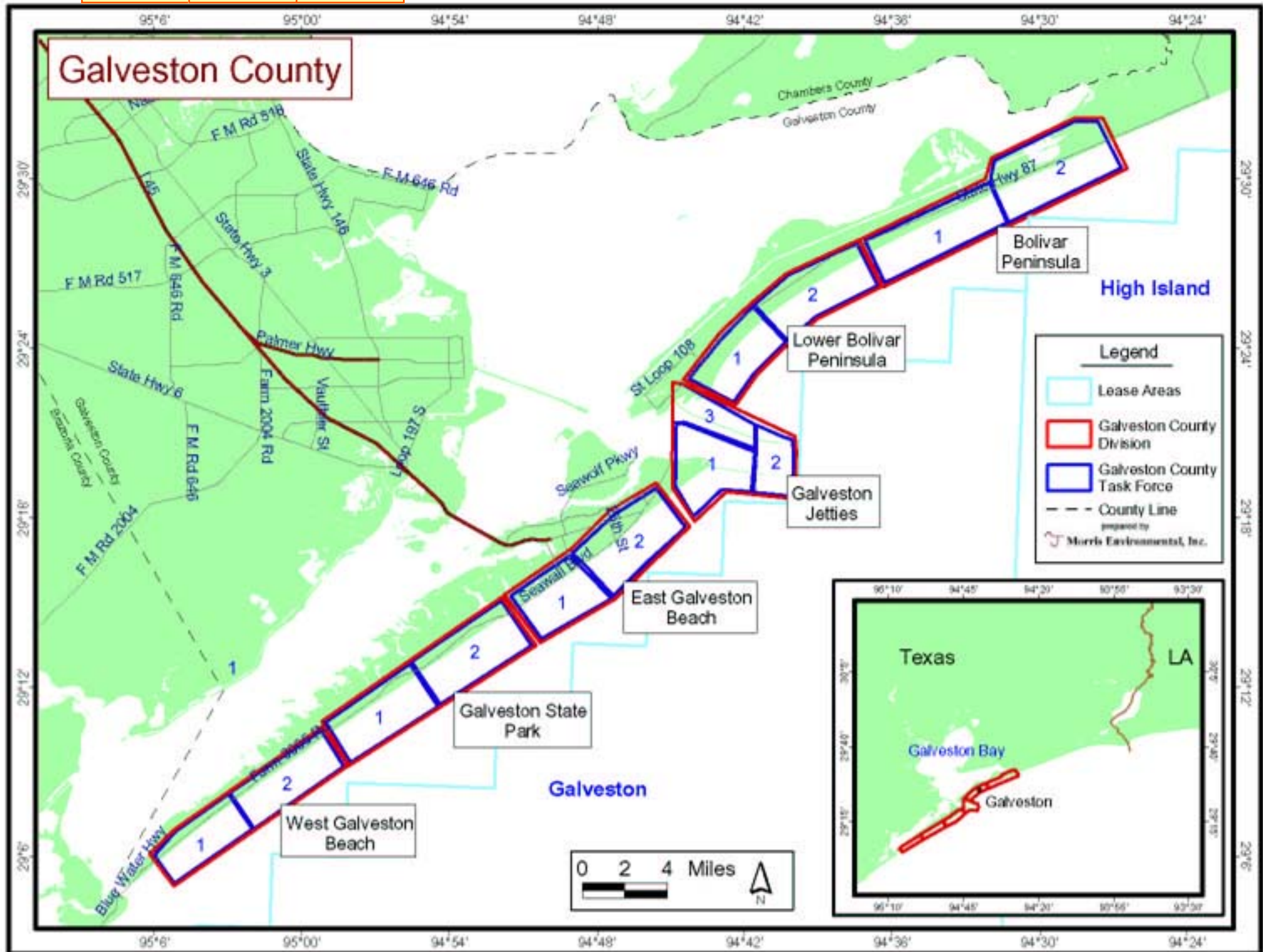
Texas Point/Sabine Jetty							Task Force #3	
Equipment	Type	Quantity	Description	Source	ETA	EDRR	Storage	Rate
Boom	Containment	1,200'	18"					
Boom	Sorbent	2,800'	8"					
Boom		0'						
Viscous Sweep		0'	Snare					
Anchors	Danforth\Stakes	20	22#					
Skimmers		0						
Aux. Boats	Workboat	4	16' or Greater					
Personnel	Responders	9						
Vacuum Trucks	70-100 bbl.	0						
Beach Cleaners	Excavator	0						
Dump Trucks	6-12 Cu. Yard	0						
Pollution Boxes	22 Cu. Yard	0						
4x4 Trucks	With Trailer	0						
ATV's	With Trailer	0						
Total Recovery Rate & Storage Capacity:								

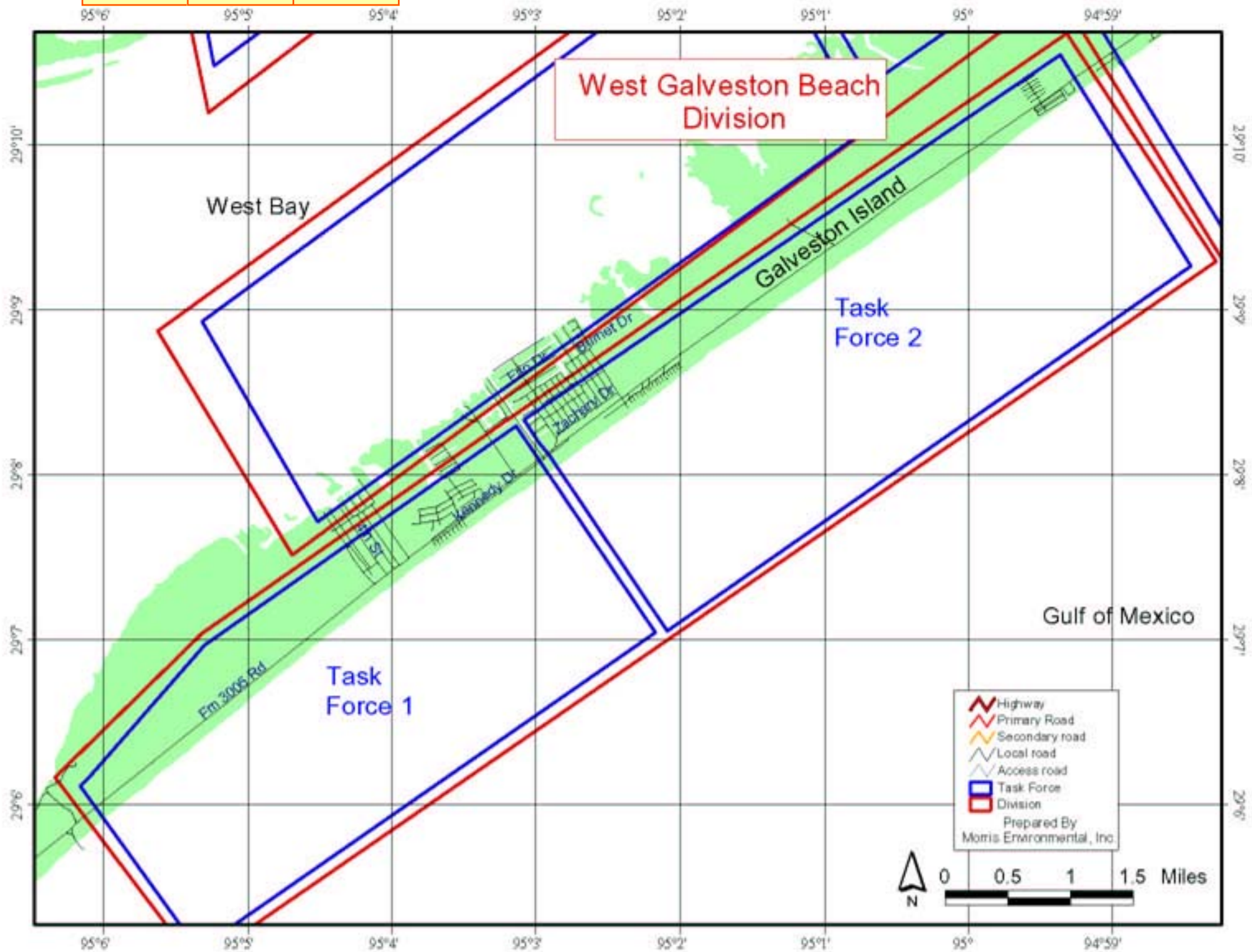
Texas Point/Sabine Jetty							Task Force #4	
Equipment	Type	Quantity	Description	Source	ETA	EDRR	Storage	Rate
Boom	Containment	6,850'	18"					
Boom	Sorbent	700'	8"					
Boom		0'						
Viscous Sweep		0'	Snare					
Anchors	Danforth\Stakes	37	22#					
Skimmers	BRG	2						
Aux. Boats	Workboat	8	16' or Greater					
Personnel	Responders	21						
Vacuum Trucks	70-100 bbl.	0						
Beach Cleaners	Excavator	0						
Dump Trucks	6-12 Cu. Yard	0						
Pollution Boxes	23 Cu. Yard	0						
4x4 Trucks	With Trailer	0						
ATV's	With Trailer	0						
Total Recovery Rate & Storage Capacity:								

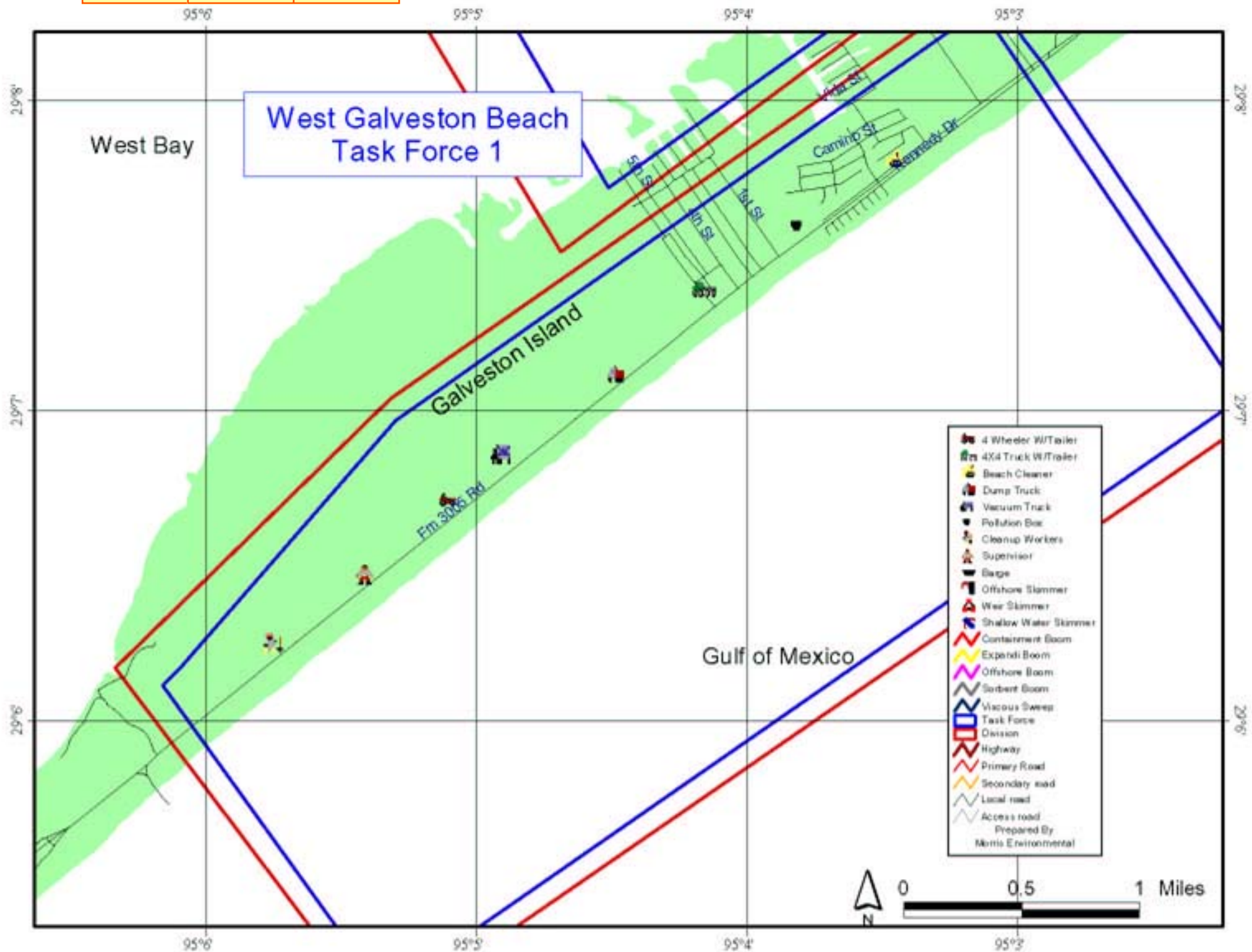
Texas Point/Sabine Jetty							Task Force #5	
Equipment	Type	Quantity	Description	Source	ETA	EDRR	Storage	Rate
Boom	Containment	6,000'	18"					
Boom	Sorbent	2,200'	8"					
Boom	Expandi	0'						
Viscous Sweep		0'	Snare					
Anchors	Danforth\Stakes	41	22#					
Skimmers	BRG	1						
Aux. Boats	Workboat	8	16' or Greater					
Personnel	Responders	20						
Vacuum Trucks	70-100 bbl.	1						
Beach Cleaners	Excavator	0						
Dump Trucks	6-12 Cu. Yard	0						
Pollution Boxes	23 Cu. Yard	0						
4x4 Trucks	With Trailer	0						
ATV's	With Trailer	0						
Total Recovery Rate & Storage Capacity:								



Galveston County







Galveston County Environmental Sensitivities

Name : GALVESTON ISLAND
Description: STATE PARK
GALVESTON ISLAND STATE PARK
MANAGER: ANGELA DEATON
PHONE: 409-737-1222 OR 409-737-3771
FAX: 409-737-5496
ACCESS BY CAR AND BOAT. SENSITIVE
SPECIES INCLUDE SHOREBIRDS, WADING
BIRDS, SONG BIRDS, AND WATERFOWL.

Name : GALVESTON IS.
Description: STATE PARK
ADULT CONCENTRATION AREA FOR
SHOREBIRDS.

Name : GALVESTON IS.
Description: STATE PARK
ADULT CONCENTRATION AREA FOR WADING
BIRDS.

Name : BIRD ISLAND
Description: SANCTUARY
BIRD ISLAND SANCTUARY
MANAGER: WINNIE BURKETT
PHONE: (281)992-5640 FAX: (281) 992-3549
ACCESS BY BOAT ONLY. SENSITIVE SPECIES
INCLUDE WADING BIRDS AND SHOREBIRDS.

Name : NORTH DEER ISLAND
Description: SANCTUARY
NORTH DEER ISLAND SANCTUARY
MANAGER: WINNIE BURKETT
PHONE: (281)992-5640 FAX: (281) 992-3549
ACCESS BY ONLY. SENSITIVE SPECIES
INCLUDE WADING BIRDS, SHOREBIRDS, AND
SEABIRDS.

Name : SNAKE ISLAND
Description: SANCTUARY
AREAS SNAKE ISLAND SANCTUARY
MANAGER: WINNIE BURKETT
PHONE: (281)992-5640 FAX: (281)992-3549
ACCESS BY BOAT ONLY. SENSITIVE SPECIES
INCLUDE WADING BIRDS AND SHOREBIRDS.

Name : SOUTH DEER ISLAND
Description: SANCTUARY
SOUTH DEER ISLAND SANCTUARY
MANAGER: WINNIE BURKETT
PHONE: (281)992-5640 FAX: (281) 992-3549
ALSO MANAGE ROLLOVER PASS AND ISLANDS
AT SMITH POINT
ACCESS BY BOAT ONLY. SENSITIVE SPECIES
INCLUDE WADING BIRDS AND SHOREBIRDS.

Name : BAFFLE POINT
Description: BLUE CRAB
SPORT FISHING AREA FOR BLUE CRABS.

Name : CHOCOLATE BAY
Description: EASTERN OYSTERS
BREEDING, NURSERY, AND COMMERCIAL
HARVESTING AREA FOR EASTERN OYSTERS.

Name : CHOCOLATE BAY
Description: FISH
NURSERY AREA FOR DRUM, SHEEPHEAD, AND
SOUTHERN FLOUNDER DURING THE SPRING,
SUMMER, AND FALL.

Name : CRAB LAKE
Description: VARIETY OF BIRDS
MIGRATORY AREA FOR CUCKOOS,
ROADRUNNERS, HUMMINGBIRDS, PERCHING
BIRDS, WARBLERS, GOATSUCKERS, AND
FRINGILLIDS.

Name : EAST BAY
Description: EASTERN OYSTERS
BREEDING, NURSERY, AND COMMERCIAL
HARVESTING AREA FOR EASTERN OYSTERS.

Name : EAST BAY
Description: VARIETY OF FISH
NURSERY AREA FOR DRUM, SHEEPSHEAD,
AND SOUTHERN FLOUNDER DURING THE
SPRING, SUMMER, AND FALL.

Name : EAST BEACH
Description: SHOREBIRDS
THIS AREA IS UTILIZED BY SHOREBIRDS.

Name : E. OF GREENS LAKE
Description: EASTERN OYSTERS
BREEDING, NURSERY, AND COMMERCIAL
HARVESTING AREA FOR EASTERN OYSTERS.

Name : E. OF N. DEER ISLAND
Description: EASTERN OYSTERS
BREEDING, NURSERY, AND COMMERCIAL
HARVESTING AREA FOR EASTERN OYSTERS.

Name : ELMGROVE PT
Description: EASTERN OYSTERS
BREEDING, NURSERY, AND COMMERCIAL
HARVESTING AREA FOR EASTERN OYSTERS.

Galveston County Environmental Sensitivities

Name : ELMGROVE PT
Description: VARIETY OF FISH
NURSERY AREA FOR DRUM, SHEEPSHEAD,
AND SOUTHERN FLOUNDER DURING THE
SPRING, SUMMER, AND FALL.

Name : FLAKE
Description: BIRDS
MIGRATORY AREA FOR SONGBIRDS.

Name : GAL. CHANNEL
Description: HERONS
THIS AREA IS UTILIZED BY HERON.

Name : GAL. CHANNEL
Description: LAUGHING GULL
THIS AREA IS UTILIZED BY LAUGHING GULLS.

Name : GALVESTON IS.
Description: VARIETY OF BIRDS
THIS AREA IS UTILIZED BY RAILS, LEAST
BITTERN, AND GALLINULE.

Name : GALVESTON IS.
Description: VARIETY OF DUCKS
THIS AREA IS UTILIZED BY DIVING AND
DABBLING DUCKS.

Name : GHOST BAYOU
Description: SHRIMP AND CRAB
NURSERY AREA FOR WHITE AND BROWN
SHRIMP AND BLUE CRAB.

Name : GHOST BAYOU
Description: VARIETY OF FISH
NURSERY AREA FOR DRUM, SHEEPSHEAD,
AND SOUTHERN FLOUNDER DURING THE
SPRING, SUMMER, AND FALL.

Name : HIGH ISLAND
Description: BIRD HAWKS
MIGRATORY AREA FOR BIRD HAWKS.

Name : HIGH ISLAND
Description: SHRIMP AND CRAB
NURSERY AREA FOR WHITE AND BROWN
SHRIMP AND BLUE CRAB.

Name : HIGH ISLAND
Description: VARIETY OF BIRDS
MIGRATORY AREA FOR CUCKOOS,
ROADRUNNERS, HUMMINGBIRDS, PERCHING
BIRDS, WARBLERS, GOATSUCKERS, AND
FRINGILLIDS.

Name : HIGH ISLAND
Description: VARIETY OF FISH
NURSERY AREA FOR DRUM, SHEEPSHEAD,
AND SOUTHERN FLOUNDER DURING THE
SPRING, SUMMER, AND FALL.

Name : HITCHCOCK
Description: SHOREBIRDS
THIS AREA IS UTILIZED BY SHOREBIRDS.

Name : HITCHCOCK
Description: VARIETY OF BIRDS
THIS AREA IS UTILIZED BY SEABIRDS.

Name : HITCHCOCK
Description: VARIETY OF BIRDS
THIS AREA IS UTILIZED BY SONGBIRDS.

Name : HITCHCOCK
Description: VARIETY OF DUCKS
ADULT CONCENTRATION AND MIGRATORY
AREA FOR DABBLING DUCKS AND SNOW
GEESE.

Name : HITCHCOCK
Description: WADING BIRDS
THIS AREA IS UTILIZED BY WADING BIRDS.

Name : HOECKERS COVE
Description: VARIETY OF BIRDS
BREEDING AREA FOR LEAST TERN,
FORSTER'S TERN, AND BLACK SKIMMER
DURING THE SPRING.

Name : JONES BAY
Description: TERN AND SKIMMER
BREEDING AREA FOR LEAST TERN AND BLACK
SKIMMER DURING THE SPRING.

Name : N. DEER ISLAND
Description: VARIETY OF BIRDS
BREEDING AREA FOR EGRET, HERON,
REDDISH EGRET, WHITE-FACED IBIS, GREAT
BLUE HERON, WHITE IBIS, ROSEATE
SPOONBILL, GREAT EGRET, SNOWY EGRET,
AND BLACK-CROWNED NIGHT HERON DURING
THE SPRING.

Galveston County Environmental Sensitivities

Name : N. DEER ISLAND
Description: VARIETY OF BIRDS
BREEDING AREA FOR FORSTER'S TERN.

BREEDING AREA FOR LAUGHING GULLS
DURING THE SPRING.

Name : N. OF DEER ISLAND
Description: EGRET AND HERON
BREEDING AREA FOR EGRET, HERON, AND
REDDISH EGRET DURING THE SPRING.

Name : N. OF DEER ISLAND
Description: REDDISH EGRET
BREEDING AREA FOR REDDISH EGRET
DURING THE SPRING.

Name : NORTH JETTY
Description: FISH
NURSERY AREA FOR SPOTTED SEATROUT,
SHEEPHEAD, AND SOUTHERN FLOUNDER
DURING THE SPRING, SUMMER, AND FALL.

Name : OFFATT BAYOU
Description: COMMON LOON
THIS AREA IS UTILIZED BY COMMON LOON.

Name : PELICAN ISLAND
Description: REDDISH EGRET
BREEDING AREA FOR REDDISH EGRET,
WHITE-
FACED IBIS, WHITE IBIS, AND ROSEATE
SPOONBILL. REDDISH EGRET ARE A RARE,
THREATENED, AND ENDANGERED SPECIE.

Name : PELICAN ISLAND
Description: TERN AND SKIMMERS
BREEDING AREA FOR GULLS, TERNS, BLACK
SKIMMER, AND LAUGHING GULLS.

Name : RED FISH COVE
Description: VARIETY OF FISH
UNUSUAL DISTRIBUTION FOR
BUTTERFLYFISH.
BREEDING AREA FOR DWARF SEAHORSE.

Name : ROLLOVER PASS
Description: SHRIMP AND CRAB
NURSERY AREA FOR WHITE AND BROWN
SHRIMP AND BLUE CRAB.

Name : ROLLOVER PASS
Description: VARIETY OF BIRDS
BREEDING AREA FOR HERONS AND EGRETS.
BREEDING AREA FOR GREAT EGRET, SNOWY
EGRET, LOUISIANA HERONS, AND BLACK-

CROWNED NIGHT HERONS DURING THE
SPRING.

Name : ROLLOVER PASS
Description: VARIETY OF FISH
NURSERY AREA FOR DRUM, SHEEPSHEAD,
AND SOUTHERN FLOUNDER DURING THE
SPRING, SUMMER, AND FALL.

Name : SAN LUIS PASS
Description: FISH
MIGRATORY AREA FOR SPOTTED SEATROUT,

SHEEPHEAD, AND SOUTHERN FLOUNDER
DURING THE SPRING, SUMMER, AND FALL.

Name : SAN LUIS PASS
Description: SHRIMP AND CRAB
MIGRATORY AREA FOR WHITE SHRIMP
DURING SUMMER. NURSERY AREA FOR
BROWN SHRIMP DURING THE SPRING AND
WINTER. NURSERY AREA FOR BLUE CRAB.

Name : SOUTH DEER ISLAND
Description: EGRET AND HERON
SOUTH DEER ISLAND IS UTILIZED BY EGRET
AND HERON.

Name : SOUTH DEER ISLAND
Description: SHOREBIRDS
SOUTH DEER ISLAND SANCTUARY IS UTILIZED
BY SHOREBIRDS.

Name : SOUTH JETTY
Description: SHRIMP AND CRAB
NURSERY AREA FOR WHITE SHRIMP DURING
THE SUMMER. NURSERY AREA FOR BROWN
SHRIMP DURING THE SPRING AND WINTER.
NURSERY AREA FOR BLUE CRAB.

Name : STEPHENSON POINT
Description: VARIETY OF FISH
NURSERY AREA FOR DRUM, SHEEPSHEAD,
AND SOUTHERN FLOUNDER DURING THE
SPRING, SUMMER, AND FALL.

Name : SWAN LAKE
Description: EGRET AND TERN
BREEDING AREA FOR EGRET AND HERON
DURING THE SPRING.

Name : SWAN LAKE
Description: GULLS AND TERNS

BREEDING AREA FOR GULLS AND TERNS

Galveston County Environmental Sensitivities

Name : SWEETWATER LAKE
Description: EARED GREBE
THIS AREA IS UTILIZED BY EARED GREBE.

Name : SWEETWATER LAKE
Description: VARIETY OF BIRDS
THIS AREA IS UTILIZED BY RAILS, LEAST
BITTERN, AND GALLINULE.

Name : SWEETWATER LAKE
Description: VARIETY OF DUCKS
THIS AREA IS UTILIZED BY DIVING AND
DABBLING DUCKS.

Name : TEXAS CITY
Description: RUDDY DUCK
WINTERING AREA FOR RUDDY DUCKS.

Name : TX CITY DIKE
Description: BLACK SKIMMER
BREEDING AREA FOR BLACK SKIMMER
DURING THE SPRING.

Name : TX. CITY SHIP CHAN.
Description: EASTERN OYSTERS
BREEDING, NURSERY, AND COMMERCIAL
HARVESTING AREA FOR EASTERN OYSTERS.

Name : TX CITY SHIP CHAN.
Description: FISH
THIS AREA IS UTILIZED BY SPOTTED
SEATROUT, DRUM, ATLANTIC CROAKER, AND
SPOT.

Name : TX CITY SHIP CHAN.
Description: SEABIRDS
THIS AREA IS UTILIZED BY CORMORANT,
WHITE PELICAN, AND EARED GREBE.

Name : VIRGINIA POINT
Description: TERN AND SKIMMER
BREEDING AREA FOR BLACK SKIMMER, LEAST
TERN, AND LAUGHING GULLS.

Name : WEST BAY
Description: FISH
NURSERY AREA FOR SPOTTED SEATROUT,
SHEEPHEAD, AND SOUTHERN FLOUNDER
DURING THE SPRING, SUMMER, AND FALL.

Name : WEST BAY
Description: SHRIMP AND CRAB
NURSERY AREA FOR WHITE SHRIMP DURING
THE SUMMER. NURSERY AREA FOR BROWN
SHRIMP DURING THE SPRING AND WINTER.
NURSERY AREA FOR BLUE CRAB.

HOUSTON AREA SENSITIVE INFORMATION/MAPS

SECTION 8F SENSITIVE INFORMATION/MAPS**HOUSTON AREA SENSITIVE INFORMATION/MAPS**

Anahuac

Baycliff

Brown Cedar Cut

Caplen

Cedar Lakes West

Christmas Point

Cove

Dressing Point

Flake

Frozen Point

Galveston

High Island

Highlands

Hitchcock

Hoskins Mound

Jacinto City

Jetties

Jones Creek

Lake Como

Lake Stephenson

La Porte

League City

Matagorda Southwest

Matagorda

Morgan's Point

Oak Island

Oyster Creek

Park Place

SENSITIVE INFORMATION/MAPS
SECTION 8F**TEXAS STATE APPENDIX**

Pasadena

Port Bolivar

San Luis Pass

Sargent

Sea Isle

Settegast

Smith Point

South of Galveston

Umbrella Point

Virginia Point

1. ANAHUAC

NE Trinity Bay and Trinity River

CHART(S): Nautical Chart (11326)
Upper Coast Atlas Page 19STAGING AREAS: Fort Anahuac Park public boat ramp (2)
(b) (7)(F), (b) (3)

ACCESS ROADS: Fort Anahuac Park: East on I-10 from Houston to Hwy 61. Exit right on Hwy 61 to Anahuac. Travel south on Hwy 61 to Fort Anahuac Park.

DESCRIPTION:

Boom to protect numerous coves, and sensitive marshes from the Trinity River west to Cove Bayou. During seasons when rainfall is abundant, the River and bayou's of in the area tend to flow into Trinity Bay pushing water and sediment away from the north shoreline. This could aid in spill response activities.

- 1-A Boom cut at Fort Anahuac Boat Ramps
- 1-B Boom Lake Anahuac Spillway
- 1-C Boom Brown's Pass at Trinity River
- 1-D Boom Lighthouse Pass at Trinity River
- 1-E Boom Jack's Pass at Trinity River
- 1-F Boom Old River Cutoff at Trinity River
- 1-G Boom to protect marsh area near Lake Charlotte.
- 1-H Boom Long Island Bayou at Old River
- 1-I Boom Trinity Bay entrance to Long Island Bayou
- 1-J Boom Trinity Bay entrance to Jack's Pass
- 1-K Boom Trinity Bay entrance to Triangle Pass
- 1-L Boom Trinity Bay entrance to Southwest Pass
- 1-M Boom Trinity Bay entrance to Bulkhead Cove
- 1-N Boom Trinity Bay entrance to Brown's Pass

NOTIFY:Texas Parks & Wildlife Dept.
U.S. Fish & Wildlife Service(281) 461-4071 Houston
(281) 286-8282 Houston**CAUTION:**

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. American Alligators and Bald Eagles have been sighted in this area.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted. Seagrass beds along Eastern Shore of Trinity bay should be avoided during response activities to prevent physical damage to vegetation.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 1-A TGLO Polygon # 3 Quad Name ANAHUAC

**Site information:**

Site Description: Cut at Fort Anahuac Boat Ramps

Boat ramps provide access to the Trinity River Channel along the eastern shore of Trinity Bay, or the Anahuac Channel that provides access to Trinity Bay south or the Trinity River and it's bayous to the north. Boom to protect sensitive marshes.

Latitude:

(b) (7)(F), (b) (3)

NOAA chart #

11326

Longitude:

W (b) (7)(F), (b) (3)

County:

Chambers

Date last visited:

19 April 2001

Access:**Closest Boat Ramp:**

Fort Anahuac Park

Distance:

0 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

Mottled duck, Waterfowl, Alligator, White shrimp, Grass shrimp.

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom at spill site to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:

30 ft

Current:

Moderate

Water depth at mouth:

3 ft

Safety / Cautionary notes:

Very shallow water near the shoreline. American alligators are in this area.

Site Specific Information**Site # 1-B TGLO Polygon # 3 Quad Name ANAHUAC****Site information:**

Site Description: Lake Anahuac Spillway

The Lake Anahuac Spillway separates the southern end of Lake Anahuac from the Trinity River. During seasons when rainfall is abundant, spillage from Lake Anahuac could add to the Trinity River/Anahuac Channel flow.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

W (b) (7)(F), (b) (3)

NOAA chart #

11326

County:

Chambers

Date last visited:

14 March 2001

Access:**Closest Boat Ramp:**

Fort Anahuac Park

Distance:

5 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport , (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

River otter, Mottled duck, Waterfowl, Alligator, Channel catfish, Blue catfish, Killifish, Mullet, White shrimp

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom below Spillway to prevent flow into Trinity River

Number of personnel:

2-4

Width of inlet:

100 ft

Current:

Slow

Water depth at mouth:

7 ft

Safety / Cautionary notes:
alligators are in this area.

Very shallow water near the shoreline. American

Site Specific Information**Site # 1-C TGLO Polygon # 3 Quad Name ANAHUAC****Site information:**

Site Description: Brown's Pass at Trinity River

Brown's Pass is a channel through the Trinity River Delta from the Trinity River to Trinity Bay, with sensitive marshes along both banks.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11326

County:

Chambers

Date last visited:

14 March 2001

Access:**Closest Boat Ramp:**

Fort Anahuac Park

Distance:

10 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

River otter, Mottled duck, Waterfowl, Alligator, Channel catfish, Blue catfish, Killifish, Mullet, White shrimp

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

The primary water flow is from the Trinity River, down these bayous, to Trinity Bay. Boom across entrance to bayou to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:

150 ft

Current:

High

Water depth at mouth:

6 ft

Safety / Cautionary notes:

Very shallow water near the shoreline. American alligators are in this area. Debris collects at the top of the bayou.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 1-D TGLO Polygon # 3 Quad Name ANAHUAC



Site information:

Site Description: Lighthouse Pass at Trinity River

Lighthouse Pass is a channel into the Trinity River Delta from the Trinity River with sensitive marshes along both banks.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11326

County:

Chambers

Date last visited:

14 March 2001

Access:

Closest Boat Ramp:

Fort Anahuac Park

Distance:

15 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

River otter, Mottled duck, Waterfowl, Alligator, Channel catfish, Blue catfish, Killifish, Mullet, White shrimp

Economic:

N/A

Booming strategy recommendations:

Recommendations:

The primary water flow is from the Trinity River, down these bayous, to Trinity Bay. Boom across entrance to bayou to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:

250 ft

Current:

Moderate

Water depth at mouth:

5 ft

Safety / Cautionary notes:

Very shallow water near the shoreline. American alligators are in this area. Debris collects at the top of the bayou.

Site Specific Information**Site # 1-E TGLO Polygon # 3 Quad Name ANAHUAC****Site information:**

Site Description: Jack's Pass at Trinity River

Jack's Pass is a channel through the Trinity River Delta from the Trinity River to Trinity Bay, with sensitive marshes along both banks.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11326

County:

Chambers

Date last visited:

14 March 2001

Access:**Closest Boat Ramp:**

Fort Anahuac Park

Distance:

20 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport , (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

River otter, Mottled duck, Waterfowl, Alligator, Channel catfish, Blue catfish, Killifish, Mullet, White shrimp

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

The primary water flow is from the Trinity River, down these bayous, to Trinity Bay. Boom across entrance to bayou to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:

50 ft

Current:

Moderate

Water depth at mouth:

5 ft

Safety / Cautionary notes:

Very shallow water near the shoreline. American alligators are in this area. Debris collects at the top of the bayou.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 1-F TGLO Polygon # 3 Quad Name ANAHUAC

**Site information:**

Site Description: Old River Cutoff at Trinity River

This is a cut between the Old and Trinity Rivers. Water flow can vary depending upon the flow rates of the rivers. The primary tendency is to flow from the Trinity River to Old River and out Long Island Bayou to Trinity Bay.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11326

County:

Chambers

Date last visited:

14 March 2001

Access:

Closest Boat Ramp:

Fort Anahuac Park

Distance:

25 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

River otter, Mottled duck, Waterfowl, Alligator, Channel catfish, Blue catfish, Killifish, Mullet, White shrimp

Economic:

N/A

Booming strategy recommendations:

Recommendations:

migration depending on flow.

Boom at 45 degree angles along banks to prevent

Number of personnel:

4-6

Width of inlet:

200 ft

Current:

Moderate

Water depth at mouth:

20 ft

Safety / Cautionary notes:

American alligators are in this area.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 1-G TGLO Polygon # 1 Quad Name ANAHUAC

**Site information:**

Site Description: Entrance to Marsh at Lake Charlotte

This is the entrance of Trinity River water to the sensitive marshes around Lake Charlotte and Lake Miller.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11326

County:

Chambers

Date last visited:

19 April 2001

Access:

Closest Boat Ramp:

I-10 Trinity River Ramp

Distance:

10 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to the Trinity River Turnaround. Exit and the ramp is under the bridge on the west bank.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

Several birds including Bald Eagles, Stripped Bass, Blue catfish, Channel catfish.

Economic:

N/A

Booming strategy recommendations:

Recommendations:

Boom across entrance to marsh to prevent migration from the Trinity River into the sensitive marshes.

Number of personnel:

2-4

Width of inlet:

150 ft

Current:

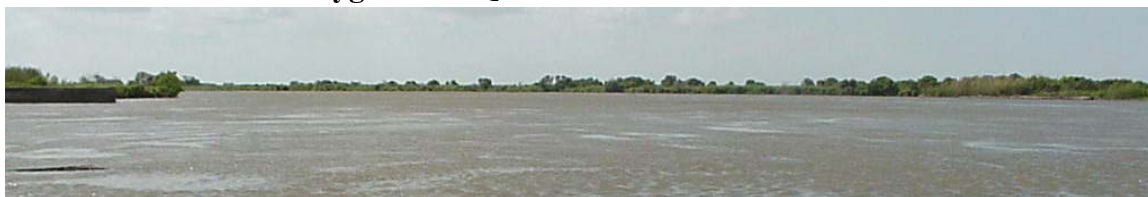
Slow

Water depth at mouth:

15 ft

Safety / Cautionary notes:

Bald eagles nest and feed in area.

Site Specific Information**Site # 1-H TGLO Polygon # 3 Quad Name ANAHUAC****Site information:**

Site Description: Long Island Bayou at Old River

Long Island Bayou is a channel through the Trinity River Delta from Old River to Trinity Bay, with sensitive marshes along both banks.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11326

County:

Chambers

Date last visited:

19 April 2001

Access:**Closest Boat Ramp:**

Fort Anahuac Park

Distance:

30 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

Mottled duck, Waterfowl, Alligator, Salt meadow cordgrass, California bulrush, Arrowhead.

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

The primary water flow is from Old River, down the bayou, to Trinity Bay. Boom at 45 degree angles to the bank to prevent migration down the bayou.

Number of personnel:

4-6

Width of inlet:

600 ft

Current:

Moderate

Water depth at mouth:

15 ft

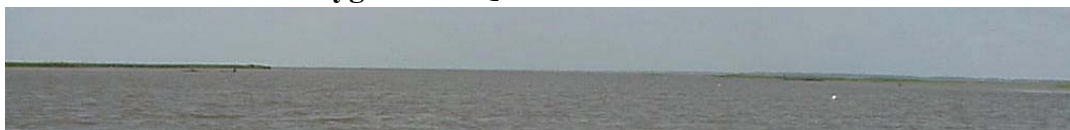
Safety / Cautionary notes:

American alligators have been seen in this area.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 1-I TGLO Polygon # 4 Quad Name ANAHUAC

**Site information:**

Site Description: Trinity Bay Entrance to Long Island Bayou
Long Island Bayou is a channel through the Trinity River Delta from Old River to Trinity Bay, with sensitive marshes along both banks. When rainfall is abundant, the river and bayous tend to flow into Trinity Bay, pushing water and sediment away from the north shoreline. This could aid in spill response activities.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)
NOAA chart #	11326	County:	Chambers
		Date last visited:	19 April 2001

Access:

Closest Boat Ramp:	Fort Anahuac Park
Distance:	40 minutes
Boat type recommended:	Shallow, aluminum hull
Closest Airport:	Chambers County Airport (TOO)
Closest Helicopter Landing:	Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

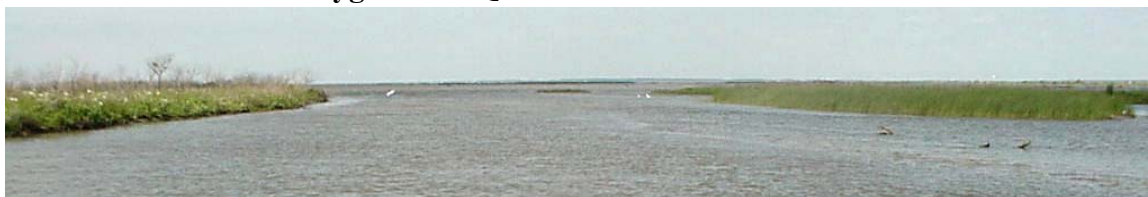
Resources at Risk:

Atlas Priority:	Medium
Environmental:	Mottled duck, Waterfowl, Alligator, Water celery, Widgeon grass, Southern naiad.
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	4-6	Width of inlet:	600 ft
Current:	Slow	Water depth at mouth:	2 ft

Safety / Cautionary notes: The Trinity River Delta is shallow, hazardous, and changes rapidly, especially on the Trinity Bay side. Airboats may be necessary in many areas.

Site Specific Information**Site # 1-J TGLO Polygon # 5 Quad Name ANAHUAC****Site information:**

Site Description: Trinity Bay Entrance to Jack's Pass

Jack's Pass is a channel through the Trinity River Delta from the Trinity River to Trinity Bay, with sensitive marshes along both banks.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11326

County:

Chambers

Date last visited:

19 April 2001

Access:**Closest Boat Ramp:**

Fort Anahuac Park

Distance:

30 minutes

Boat type recommended:

Airboat, too shallow for boats

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport , (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

SAV

Environmental:

Several birds including Osprey, Alligator, Gizzard shad, Blue catfish, Mullet, Killifish, White shrimp.

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

4-6

Width of inlet:

150 ft

Current:

Slow

Water depth at mouth:

1 ft

Safety / Cautionary notes:

The Trinity River Delta is shallow, hazardous, and changes rapidly , especially on the Trinity Bay side. Airboats may be necessary in many areas.

Site Specific Information**Site # 1-K TGLO Polygon # 5 Quad Name ANAHUAC****PICTURE NOT AVAILABLE****Site information:**

Site Description: Trinity Bay Entrance to Triangle Pass
 Triangle Pass is a channel through the Trinity River Delta from the Trinity River to Trinity Bay, with sensitive marshes along both banks.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11326
Longitude: (b) (7)(F), (b) (3)
County: Chambers
Date last visited: 19 April 2001

Access:

Closest Boat Ramp: Fort Anahuac Park
Distance: 30 minutes
Boat type recommended: Airboat, too shallow for boats
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **SAV**
 Environmental: Waterfowl, Wading birds, Long-billed curlew, Clapper rail, Alligator, Brackishwater clam, Oyster, Water celery.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 50 ft
Current: Slow **Water depth at mouth:** 1 ft

Safety / Cautionary notes: The Trinity River Delta is shallow, hazardous, and changes rapidly, especially on the Trinity Bay side. Airboats may be necessary in many areas.

Site Specific Information**Site # 1-L TGLO Polygon # 5 Quad Name ANAHUAC****Site information:**

Site Description: Trinity Bay Entrance to Southwest Pass

Southwest Pass is a cut into the Trinity River Delta from Trinity Bay, with sensitive marshes on all sides.

Latitude: N _____ **Longitude:** W _____ **Map #** 19
NOAA chart # 11326 **County:** Chambers
Date last visited: _____

Access:**Closest Boat Ramp:** Fort Anahuac Park**Distance:** _____ minutes**Boat type recommended:** Airboat, too shallow for boats**Closest Airport:** Chambers County Airport (TOO)**Closest Helicopter Landing:** Chambers County Airport , (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:Atlas Priority: **SAV**Environmental: Waterfowl, Alligator, Brackishwater clam, Oyster, Widgeon grass,
Water celery.

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** _____ **Width of inlet:** _____ ft**Current:** _____ **Water depth at mouth:** _____ ft

Safety / Cautionary notes: The Trinity River Delta is shallow, hazardous, and changes rapidly , especially on the Trinity Bay side. Airboats may be necessary in many areas.

Site Specific Information**Site # 1-M TGLO Polygon # 5 Quad Name ANAHUAC****Site information:**

Site Description: Trinity Bay Entrance to Bulkhead Cove

Bulkhead Cove is a cut into the Trinity River Delta from Trinity Bay, with sensitive marshes on all sides.

Latitude: N _____ **Longitude:** W _____ **Map #** 19
NOAA chart # 11326 **County:** Chambers
Date last visited: _____

Access:**Closest Boat Ramp:**

Fort Anahuac Park

Distance:

_____ minutes

Boat type recommended:

Airboat, too shallow for boats

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport , (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority:

SAV

Environmental:

Waterfowl, Alligator, Brackishwater clam, Oyster, Widgeon grass, Water celery.

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

Width of inlet:

_____ ft

Current:

Water depth at mouth:

_____ ft

Safety / Cautionary notes:

The Trinity River Delta is shallow, hazardous, and changes rapidly , especially on the Trinity Bay side. Airboats may be necessary in many areas.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 1-N TGLO Polygon # 5 Quad Name ANAHUAC

**Site information:**

Site Description: Trinity Bay Entrance to Brown's Pass

Brown's Pass is a channel through the Trinity River Delta from the Trinity River to Trinity Bay, with sensitive marshes along both banks.

Latitude:

NOAA chart #

(b) (7)(F), (b) (3)

11326

Longitude:

County:

Date last visited:

(b) (7)(F), (b) (3)

Chambers

19 April 2001

Access:

Closest Boat Ramp:

Distance:

Boat type recommended:

Closest Airport:

Closest Helicopter Landing:

Fort Anahuac Park

20 minutes

Airboat, too shallow for boats

Chambers County Airport (TOO)

Chambers County Airport , (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

TXGLO via Hotline

TNRCC

(800) 424-8802

(800) 832-8224

(512) 463-7727

Resources at Risk:

Atlas Priority:

Environmental:

Economic:

SAV

Waterfowl, Alligator, Brackishwater clam, Oyster, Widgeon grass, Water celery.

N/A

Booming strategy recommendations:

Recommendations:

Number of personnel:

Current:

Boom to protect sensitive marshes.

2-4

Slow

Width of inlet:

Water depth at mouth:

150 ft

1 ft

Safety / Cautionary notes:

The Trinity River Delta is shallow, hazardous, and changes rapidly , especially on the Trinity Bay side. Airboats may be necessary in many areas.

16. BAYCLIFF

W Galveston Bay

CHART(S): Nautical Chart (11326 & 11327)
Upper Coast Atlas Page 34

STAGING AREAS: 1. Spillway Park boat ramp (2)

(b) (7)(F), (b) (3)

Note: Swift water, caution is advised.

2. El Jardin Boat Ramp (1)

(b) (7)(F), (b) (3)

Note: shallow water ramp

ACCESS ROADS: 1. Hwy 146 South to FM 646, turn left, road will bend right,
proceed past HL&P outfall bridge, turn left on first road to ramp.2. Hwy 146 south exit Port Rd. proceed east road turns into Todville
Rd, turn left on El Jardin, road ends at boat ramp.

DESCRIPTION:

16-A Boom to protect Clifton Beach

16-B Boom entrance to Clifton Channel

16-C Boom entrance to Pine Gully (450' wide)

16-D Boom to protect marsh south of El Jardin Rd.

16-E Boom to protect East side of Island north of Five mile Pass

16-F Boom entrance to Bayport Ship Channel (960' wide)

16-G Boom to protect Houston Yacht Club

16-H Boom to protect Red Fish Island

CAUTION:

Numerous submerged pilings have been noted along shoreline. Avoid running aground on
Red Fish Island (submerged).

NATURAL COLLECTION AREA:

Debris has been noted north of Red Bluff, product tends to collect near the Five mile Pass
area.

Site Specific Information

Site # 16-A TGLO Polygon # 1 Quad Name Baycliff

**Site information:**

Site Description: Shoreline of Clifton Beach at end of Highway 646.

Latitude: (b) (7)(F), (b) (3)
 NOAA chart # 11326, 11327
 Nearest ICW Marker: N/A

Longitude: (b) (7)(F), (b) (3)
 County: Harris
 Date last visited: 05 Mar 01

Access:

Closest Boat Ramp: Clifton Beach
 Distance: 1 minute
 Boat type recommended: Shallow aluminum hull
 Closest Airport: William Hobby Airport HOU
 Closest Helicopter Landing: William Hobby Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Take Hwy 610 South, exit onto Hwy 225 east, exit onto Hwy 146 south, turn left onto Grand Ave., following it out to Galveston Bay, and turn left onto Bayshore.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: Habitat for turtles
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
 Number of personnel: 2-4 Width of inlet: N/A
 Current: Medium Water depth at mouth: N/A ft

Safety / Cautionary notes: Numerous submerged pilings have been noted along the shoreline.

Site Specific Information**Site # 16-B TGLO Polygon # 2 Quad Name Baycliff****Site information:**

Site Description: Entrance to Clifton Channel near Bayshore Park.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11326, 11327
Nearest ICW Marker: N/A

Longitude: (b) (7)(F), (b) (3)
County: Harris
Date last visited: 05 Mar 01

Access:

Closest Boat Ramp: Clifton Channel
Distance: 1 minute
Boat type recommended: Shallow Aluminum hull
Closest Airport: William Hobby Airport HOU
Closest Helicopter Landing: William Hobby Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take Hwy 610 south, exit onto Hwy 225 east, exit onto Hwy 146 south, turn left onto Grand Ave., following it out to Galveston Bay, turn right onto Bayshore.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TXGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** N/A
Current: Medium **Water depth at mouth:** N/A

Safety / Cautionary notes: Numerous submerged pilings have been noted along shoreline.

Site Specific Information**Site # 16-C TGLO Polygon # 3 Quad Name: Baycliff****Site information:**

Site Description: Seabrook shoreline and lower Pine Gully.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11326, 11327
Nearest ICW Marker: N/A

Longitude: (b) (7)(F), (b) (3)
County: Harris
Date last visited: 05 Mar 01

Access:

Closest Boat Ramp: Red Bluff
Distance: 5 minutes
Boat type recommended: Shallow Aluminum hull
Closest Airport: William Hobby Airport HOU
Closest Helicopter Landing: William Hobby Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Take Hwy 610 south, exit onto Hwy 225 east, exit onto Hwy 146 south, turn left onto Red Bluff, following it out to Galveston Bay. Pine Gully will be on the left.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TXGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 450 ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: Numerous submerged pilings have been noted along shoreline.

Site Specific Information**Site # 16-H TGLO Polygon # 4 Quad Name Baycliff****Site information:**

Site Description: Red Fish Island near the Houston Ship Channel.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11326, 11327
Nearest ICW Marker: N/A

Longitude: (b) (7)(F), (b) (3)
County: Harris
Date last visited: 05 Mar 01

Access:

Closest Boat Ramp: Clifton Channel
Distance: 10-15 minutes
Boat type recommended: Shallow hull
Closest Airport: William Hobby Airport HOU
Closest Helicopter Landing: William Hobby Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Red Fish Island can be reached by boat only.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for bivalves.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** N/A
Current: Medium **Water depth at mouth:** N/A

Safety / Cautionary notes: Avoid running aground on Red Fish Island, it may be submerged. Red Fish Island is transient and may or may not be emergent from year to year.

Site Specific Information**Site # 16-G TGLO Polygon # 5 Quad Name Baycliff****Site information:**

Site Description: Houston Yacht Club

Latitude: (b) (7)(F), (b) (3)
 NOAA chart # 11326, 11327
 Nearest ICW Marker: N/A

Longitude: (b) (7)(F), (b) (3)
 County: Harris
 Date last visited: 05 Mar 01

Access:

Closest Boat Ramp: Sylvan Beach
 Distance: 5 minutes
 Boat type recommended: Shallow hull
 Closest Airport: William Hobby Airport HOU
 Closest Helicopter Landing: William Hobby Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take Hwy 610 south, exit onto Hwy 225 east, exit onto Hwy 146 south, turn left onto Shoreacres, following it out to Galveston Bay, turn right onto Miramar. Houston Yacht Club will be on the left.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: Habitat for crabs
 Economic: Yacht club

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** 960 ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: Watch for recreational vessel traffic.

Site Specific Information

Site # 16-E TGLO Polygon # 6 Quad Name Baycliff

**Site information:**

Site Description: South end of Atkinson Island

Latitude: (b) (7)(F), (b) (3)
 NOAA chart # 11326, 11327
 Nearest ICW Marker: N/A

Longitude: (b) (7)(F), (b) (3)
 County: Harris
 Date last visited: 05 Mar 01

Access:

Closest Boat Ramp: Spillway Park and El Jardin
Distance: 5-10 minutes
Boat type recommended: Shallow hull
Closest Airport: William Hobby Airport HOU
Closest Helicopter Landing: William Hobby Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Atkinson Island can be reached by boat only.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: Habitat for fish, bivalves, shrimp, crabs
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** N/A
Current: Medium **Water depth at mouth:** N/A

Safety / Cautionary notes:

 ○

Site Specific Information**Site # 16-F TGLO Polygon # 7 Quad Name Bacliff****Site information:**

Site Description: Entrance to Bayport Inner Harbor. 1st view (south end) facing south of entrance to Bayport Inner Harbor. 2nd view (north end) facing southeast of entrance to Bayport Inner Harbor.

Latitude: (S)	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)
Latitude: (N)		Longitude:	
NOAA chart #	11326, 11327	County:	Harris
Nearest ICW Marker:	N/A	Date last visited:	23 Mar 01

Access:

Closest Boat Ramp:	Spillway Park and El Jardin
Distance:	5-10 minutes
Boat type recommended:	Shallow hull
Closest Airport:	William Hobby Airport HOU
Closest Helicopter Landing:	William Hobby Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take Hwy 610 south, exit onto Hwy 225 east, exit onto Hwy 146 south, turn left onto Todville Road.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	N/A
Environmental:	Habitat for crabs
Economic:	Petrochemical facilities

Booming strategy recommendations:

Recommendations:	Boom to protect the entrance to the Bayport Ship Channel.		
Number of personnel:	2-4	Width of inlet:	960 ft
Current:	Medium	Water depth at mouth:	N/A ft

Safety / Cautionary notes: Watch for large vessel traffic. Shallow water ramp at the El Jardin boat ramp. Swift water at the Spillway Park boat ramp, caution is advised.

35. BROWN CEDAR CUT

Gulf of Mexico, East Matagorda Bay and GIWW.

CHART(S): Nautical Chart (11319)
Upper Coast Atlas Page 58

STAGING AREAS: (See Sargent for sites)

ACCESS ROADS: N/A

DESCRIPTION:Gulf of Mexico

35-A Beach washout may form in this area, booming may be required. Beach access:
4X4 vehicles needed on Matagorda Peninsula.

East Matagorda Bay

35-B This bay complex is extremely sensitive, it contains numerous marsh & wetlands,
plus sheltered tidal flats. Every effort should be made to prevent any product from entering
this area.

GIWW

Note: Numerous spoil areas break to East Matagorda Bay from Mile 423 to Boggy Bayou.

35-C Boom entrance to Boggy Bayou (420' wide)

35-D Boom cut to East Matagorda Bay near Mile 425.1 (1, 450' wide)

35-E Boom entrance to Turkey Island Slough (220' wide)

35-F Boom entrance to Live Oak Bay (280' wide)

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Tide condition need to be monitored to prevent equipment loss, being stranded due to high
tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or
airboat may be required to respond.

NATURAL COLLECTION AREA:

A large amount of debris is almost always present on Matagorda Peninsula.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 35-D TGLO Polygon # N/A

Quad Name Brown Cedar Cut

Picture # 22

Site information:

Site Description: west of Boggy Bayou

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 58

NOAA chart # 11319

County: Galveston

Nearest ICW Marker: _____

Date last visited: _____

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLA

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 10 yds**Current:** Slow **Water depth at mouth:** 0 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboat may be required to respond.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 35-F TGLO Polygon # N/A

Quad Name Brown Cedar Cut

Picture # 23

Site information:

Site Description: Turkey Island Slough

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 58

NOAA chart # 11319

County: Galveston

Nearest ICW Marker: _____

Date last visited: _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field Airport GLA**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 west over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 110 yds**Current:** Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboat may be required to respond.

Site Specific Information

Site # 35-G TGLO Polygon # N/A Quad Name Brown Cedar Cut

Picture # 24

Site information:

Site Description: entrance to Live Oak Bay

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 58
 NOAA chart # 11319 County: Galveston
 Nearest ICW Marker: _____ Date last visited: _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field Airport GLA**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 west over the San Luis Pass Bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 131 yds
Current: Slow **Water depth at mouth:** 6 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboat may be required to respond.

18. CAPLEN

Gulf of Mexico, GIWW and S East Bay

CHART(S): Nautical Chart (11326 & 11331)
Upper Coast Atlas Page 36

STAGING AREAS: Stingaree Rd. Boat Ramp (1)

(b) (7)(F), (b) (3)

ACCESS ROADS: Hwy 87 east from Ferry Landing, turn left on Stingaree Rd, proceed to end of road to boat Ramp.

DESCRIPTION:

Gulf of Mexico

18-A Beach access: 4X4 vehicles needed east of Caplen Rd.

18-B Beach washout may form in this area, booming may be required.

GIWW

18-C Boom close to spill site to prevent migration.

18-D Boom to protect numerous marsh fringes Crab Lake to Mile 337

18-E Boom entrance to Crab Lake (950' wide)

18-F Boom entrance to housing area canals

18-G Boom entrance to East Bay (Stingaree Cut) (230' wide)

East Bay

18-H Boom entrance to Yates bayou

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 18-H TGLO Polygon # 3 Quad Name Caplen



Site information:

Site Description: Entrance to Yates Bayou in East Bay, Lat. & Long. Taken in Center of Bayou

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11331

Nearest ICW Marker: 335

Longitude: (b) (7)(F), (b) (3) Map# 36

County: Galveston

Date last visited: 3-13-01

Access:

Closest Boat Ramp:

Distance: _____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 East past the Bolivar ferry.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

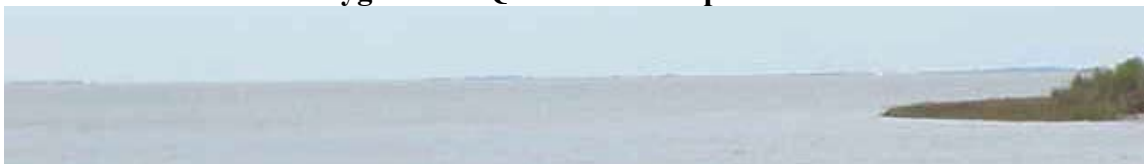
Resources at Risk:

Atlas Priority: High
Environmental: Habitat for fish
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Site Specific Information**Site # 18-G TGLO Polygon # 2 Quad Name Caplen****Site information:**

Site Description: Entrance to East Bay at Stingaree Cut, Lat. & Long. Taken in the Center of the Cut, Cut is approx 230' wide.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11331

Longitude: (b) (7)(F), (b) (3) Map# 36
County: Galveston
Date last visited: 03-13-01

Nearest ICW Marker: 335

Access:**Closest Boat Ramp:****Distance:** _____ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 East past the Bolivar ferry.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Habitat for fish
Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** _____ ft**Current:** High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Site Specific Information**Site # 18-D TGLO Polygon # 1 Quad Name Caplen****Site information:**

Site Description: Fringing Marshes from Crab Lake to State Mile Marker 337, Numerous fringing marshes exists along the East side of the ICWW. This photo is indicative of the common fringing marsh in this vicinity.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11331

Longitude: (b) (7)(F), (b) (3)
County: Galveston

Map# 36**Nearest ICW Marker:** 334**Date last visited:** 3-13-01**Access:****Closest Boat Ramp:****Distance:** _____ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 East past the Bolivar ferry.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium

Environmental: Habitat for fish

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.

Central Texas Coastal Geographic Response Plan

July 2001

Number of personnel:

2-4

Width of inlet:

_____ ft

Current:

High

Water depth at mouth:

_____ ft

Safety / Cautionary notes:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Site Specific Information

Site # 18-G TGLO Polygon # N/A

Quad Name Caplen

**Site information:**

Site Description: Typical housing canal entrance, this particular one is at the entrance to the area occupied by the Stingaree Restaurant

Latitude: (b) (7)(F), (b) (3)

NOAA chart # 11331

Nearest ICW Marker: 335

Longitude: (b) (7)(F), (b) (3)

County: Galveston

Date last visited: 3-13-01

Map# 36

Access:**Closest Boat Ramp:****Distance:**

_____ minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 East past the Bolivar ferry.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Central Texas Coastal Geographic Response Plan
July 2001**Resources at Risk:**

Atlas Priority: High
Environmental: Habitat for fish
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Site Specific Information**Site # 18-E TGLO Polygon # 4 Quad Name Caplen****Site information:**

Site Description: East edge of Crab Lake at (b) (7)(F), (b) (3) The West edge of the Lake's entrance is (b) (7)(F), (b) (3)

Latitude: N _____ **Longitude:** W _____ **Map# 36**
NOAA chart # 11331 **County:** Galveston
Nearest ICW Marker: 335 **Date last visited:** 3-13-01

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 East past the Bolivar ferry.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224

Resources at Risk:

Atlas Priority: **Medium**
Environmental: Habitat for fish
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

33. CEDAR LAKES WEST

Gulf of Mexico, GIWW, Cedar lakes and Cowtrap lake

CHART(S): Nautical Chart (11319)
Upper Coast Atlas Page 55

STAGING AREAS: Bait Camp ramp (1) (Shallow water ramp)

(b) (7)(F), (b)
(3)

See Sargent for additional site)

ACCESS ROADS: FM 457 from Bay City, proceed to the GIWW, ramp is located on the right side of the road just before swing bridge.

DESCRIPTION:Gulf of Mexico

33-A Beach washout may form in this area, booming may be required.

33-B Beach access: 4X4 vehicles needed on Matagorda Peninsula.

Cedar lakes/Cowtrap Lake

33-C These bay Lakes are extremely sensitive, it contains numerous marsh & wetlands. Every effort should be made to prevent any product from entering this area.

GIWW

33-D Boom entrance to Cedar lakes near Mile 409.3 (180' wide)

33-E Boom entrance to Cowtrap Lake (180' wide)

33-F Boom entrance to Cedar Lakes near Mile 411.2 (500' wide)

33-G Boom entrance to Cedar Lake Creek (180' wide)

33-H Boom entrance to Cedar Lakes near Mile 411.3 (350' wide)

33-I Boom culvert south GIWW near Mile 415.8 (150' wide)

33-J Boom entrance to marsh north GIWW near Mile 417.4 (270' wide)

Note: Small Response Trailer (Texas General Land Office) is staged at Swing Bridge, trailer contains 1000' of containment boom, assorted sorbents and boom anchoring equipment. Contact Swing Bridge for access to trailer.

NOTIFY:

Texas Parks & Wildlife Dept.	(281) 461-4071 Houston
U.S. Fish & Wildlife Service	(281) 286-8282 Houston
San Bernard National Wildlife Refuge Manager	(409) 964-3639

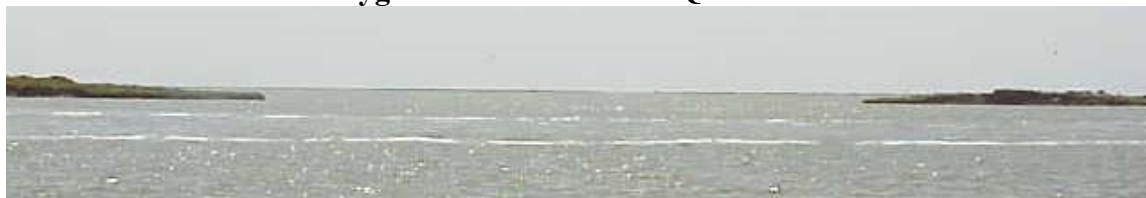
CAUTION:

Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

NATURAL COLLECTION AREA:

A large amount of debris is almost always present on Matagorda Peninsula.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 33-H TGLO Polygon # N/A****Quad Name Cedar Lake West****Site information:**

Site Description: Entrance to Cedar Lake @ MM 411.3

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map# 55****NOAA chart #** 11319**County:** Brazoria**Nearest ICW Marker:** 411.3**Date last visited:** 05-09-01**Access:****Closest Boat Ramp:** Private ramp**Distance:** ___ minutes**Boat type recommended:** Shallow, aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south across the San Luis Pass past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for waterfowl, gulls, terns, diving birds, wading birds, fish, bivalves, crabs, shrimp

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 350 ft**Current:** Medium **Water depth at mouth:** 6 ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 33-I

TGLO Polygon # N/A

Quad Name Cedar Lake West

**Site information:**

Site Description: Bridge South of GIWW near MM 415.8

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 55

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: 415.8

Date last visited: 05-09-01

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south across the San Luis Pass past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 150 ft**Current:**

Medium

Water depth at mouth: 6 ft**Safety / Cautionary notes:**

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 33-I-1 TGLO Polygon # N/A

Quad Name Cedar Lake West

**Site information:**

Site Description: Culvert South of ICWW @ MM 415.5

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 55

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: 415.5

Date last visited: 05-09-01

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south across the San Luis Pass past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 150 ft**Current:**

Medium

Water depth at mouth: 6 ft**Safety / Cautionary notes:**

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 33-D TGLO Polygon # N/A

Quad Name Cedar Lake West

**Site information:**

Site Description: Entrance to Cedar Lake @ MM 409.3

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 55

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: 409.3

Date last visited: 05-09-01

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south across the San Luis Pass past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for waterfowl, gulls, terns, diving birds, wading birds, fish, bivalves, crabs, shrimp

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 180 ft**Current:**

Medium

Water depth at mouth: 6 ft**Safety / Cautionary notes:**

Site Specific Information

Site # 33-D-1 TGLO Polygon # N/A

Quad Name Cedar Lake West

**Site information:**

Site Description: Entrance to Cedar Lake @ MM 409.3

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 55

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: 409.3

Date last visited: 05-09-01

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south across the San Luis Pass past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for waterfowl, gulls, terns, diving birds, wading birds, fish, bivalves, crabs, shrimp

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 180 ft**Current:**

Medium

Water depth at mouth: 6 ft**Safety / Cautionary notes:**

Site Specific Information

Site # 33-G

TGLO Polygon # N/A

Quad Name Cedar Lake West

**Site information:**

Site Description: Entrance to Cedar Lake Creek

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 55

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: _____

Date last visited: 05-09-01

Access:

Closest Boat Ramp:

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south across the San Luis Pass past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for waterfowl, wading birds

Economic: N/A

Booming strategy recommendations:

Recommendations:

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:

180

ft

Current:

Medium

Water depth at mouth:

3

ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 33-E TGLO Polygon # N/A

Quad Name Cedar Lake West

Site information:

Site Description: Entrance to Cow trap Lake

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 55

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: _____

Date last visited: 05-09-01

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south across the San Luis Pass past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for gulls, terns, raptors, wading birds, shorebirds, waterfowl

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 180 ft**Current:**

Medium

Water depth at mouth: 6 ft**Safety / Cautionary notes:** _____

Site Specific Information**Site # 33-J****TGLO Polygon # N/A****Quad Name Cedar Lake West****Site information:**

Site Description: Entrance to Marsh North of ICWW @ ICWW MM 417.4

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map# 55**NOAA chart #** 11319**County:**

Brazoria

Nearest ICW Marker: 417.4**Date last visited:**

05-09-01

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south across the San Luis Pass past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:**270**

ft

Current:

Medium

Water depth at mouth: 3

ft

Safety / Cautionary notes:

29. CHRISTMAS POINT

Gulf of Mexico, West Bay, Cold Pass and GIWW

CHART(S): Nautical Chart (11322)
Upper Coast Atlas Page 49

STAGING AREAS: San Luis County Park & Boat Ramp (2)

(b) (7)(F), (b) (3)

ACCESS ROADS: I-45 south for Houston to Seawall Blvd. (FM 3005), proceed west to the first exit after crossing the San Luis Pass bridge, take exit and turn north into the park area.

DESCRIPTION:

Gulf of Mexico

Beach washout may form in this area, booming may be required. Numerous Beach access areas are located in this area.

West BayExpect swift currents during peak Flood/Ebb. Cascading diversion boom will be required in this area to divert product away from sensitive areas, to collection points. Deploy cascading diversion boom north of San Luis Pass Bridge to guide oil into strategic pick-up areas along west side of pass. Prevent product from entering Cold Pass. Make every effort to prevent product from entering Christmas Bay.

29-A Boom to protect Bird Island

29-B Boom entrance to Guyton Cut (Mud Cut) (225' wide)

Cold Pass

Expect swift currents during peak Flood/Ebb. Cascading diversion boom will be required in this area to divert product away from sensitive areas to collection points (1,270' wide)

29-C Boom entrance to Titlum Tatlum Bayou (540' wide)

29-D Boom Mud Island marsh entrance (b) (7)(F), (b) (3)

GIWW

29-E Boom across GIWW close to spill site to prevent migration.

29-F Boom entrance to Alligator Slough (40' wide)

29-G Boom entrance to Bastrop Bay (1,450' wide)

29-H Boom entrance to Bastrop Bayou (1,250' wide)

29-I Boom entrance to Bastrop Bay at Mile 382.7 (330' wide)

29-J Boom canal to marsh south GIWW at Mile 383.2 (345' wide)

29-K Boom entrance to marsh south GIWW at Mile 384 (350' wide)

29-L Boom entrance to Drum Bay at Mile 387.5 (260' wide)

29-M Boom entrance to Nicks Cut (300' wide)

29-N Boom entrance to Drum Bay at Mile 387.8 (210' wide)

29-O Boom entrance to marsh north GIWW at Mile 388.4 (75' wide)

29-P Boom entrance to marsh north GIWW at Mile 399.7 (255' wide)

NOTIFY:

Brazoria National Wildlife Refuge Manager

(409) 849-7771

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond in this area. Extremely swift currents will occur during peak Flood/Ebb at San Luis Pass.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted

Site Specific Information**Site # 29-C TGLO Polygon # 2 Quad Name Christmas Point****Site information:**

Site Description: Titlum Tatum Bayou

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map# 49
NOAA chart #	11322	County:	Brazoria	
Nearest ICW Marker:	380	Date last visited:	04-06-01	

Access:**Closest Boat Ramp:** San Luis Pass**Distance:** 4 minutes**Boat type recommended:** Shallow hull**Closest Airport:** Scholes Field GLS**Closest Helicopter Landing:** Scholes Field, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:**Atlas Priority:** High**Environmental:** Habitat for fish, shrimp**Economic:** N/A**Booming strategy recommendations:****Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 540 ft**Current:** Slow **Water depth at mouth:** 3 ft**Safety / Cautionary notes:** _____

Site Specific Information**Site # 29-B TGLO Polygon # 2 Quad Name Christmas Point****Site information:**

Site Description: Mud Cut / Guyton Cut

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322
Nearest ICW Marker: 380

Longitude: (b) (7)(F), (b) (3) **Map# 49**
County: Brazoria
Date last visited: 04-06-01

Access:

Closest Boat Ramp: Bastrop Bayou @ Hoskins Mound Rd
Distance: ___ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field GLS
Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass Bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Habitat for fish, shrimp
Economic: N/A

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	2-6	Width of inlet:	225 ft
Current:	Slow	Water depth at mouth:	5 ft

Safety / Cautionary notes: _____

Site Specific Information

Site # 29-D TGLO Polygon # 2 Quad Name Christmas Point

**Site information:**

Site Description: Mud Island

Latitude: (b) (7)(F), (b) (3)
 NOAA chart # 11322
 Nearest ICW Marker: 380

Longitude: (b) (7)(F), (b) (3) Map# 49
 County: Brazoria
 Date last visited: 04-06-01

Access:

Closest Boat Ramp: San Luis Pass
 Distance: 5 minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field GLS
 Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: Habitat for fish, shrimp
 Economic: N/A

Booming strategy recommendations:

Recommendations:	Boom to protect Mud Island marsh entrance.		
Number of personnel:	2-4	Width of inlet:	ft
Current:	Slow	Water depth at mouth:	2 ft

Safety / Cautionary notes: _____

Site Specific Information

Site # 29-M TGLO Polygon # 2 Quad Name Christmas Point

**Site information:**

Site Description: Nick's Cut

Latitude: (b) (7)(F), (b) (3)
 NOAA chart # 11322
 Nearest ICW Marker: 387

Longitude: (b) (7)(F), (b) (3) Map# 49
 County: Brazoria
 Date last visited: 04-06-01

Access:

Closest Boat Ramp: San Luis Pass
 Distance: 15 minutes
 Boat type recommended: Shallow Hull or airboat
 Closest Airport: Scholes Field GLS°
 Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: Habitat for waterfowl
 Economic: N/A

Booming strategy recommendations:

Recommendations:	Boom to protect entrance to Nicks Cut		
Number of personnel:	2-4	Width of inlet:	300 ft
Current:	Slow	Water depth at mouth:	4 ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 29-F TGLO Polygon # 2 Quad Name Christmas Point****Site information:**

Site Description: Alligator Slough

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 49**
NOAA chart # 11322 **County:** Brazoria
Nearest ICW Marker: 382.5 **Date last visited:** 04-05-01

Access:**Closest Boat Ramp:** Bastrop Bayou @ Hoskins Mound Rd.**Distance:** ____ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field GLS**Closest Helicopter Landing:** Scholes Field, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:**Atlas Priority:** High**Environmental:** Habitat for mustelids or rodents, wading birds, waterfowl, raptors, shorebirds**Economic:** N/A**Booming strategy recommendations:****Recommendations:** Boom entrance to Alligator Slough.**Number of personnel:** 2-4 **Width of inlet:** 40 ft**Current:** Minimal **Water depth at mouth:** 4 ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 29- TGLO Polygon # 2 Quad Name Christmas Point

**Site information:**

Site Description: Oil Field Channel / Cut

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 49
 NOAA chart # 11322 County: Brazoria
 Nearest ICW Marker: 385 Date last visited: 04-06-01

Access:

Closest Boat Ramp: San Luis Pass
 Distance: ___ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field GLS
 Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: Habitat for fish, shrimp
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** 380 ft
Current: Slow **Water depth at mouth:** 6 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 29-J TGLO Polygon # 2 Quad Name Christmas Point

Site information:

Site Description: Marsh @ ICWW MM 383.2

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 49**
NOAA chart # 11322 **County:** Brazoria
Nearest ICW Marker: 383.2 **Date last visited:** 04-06-01

Access:

Closest Boat Ramp: San Luis Pass
Distance: 15 minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field GLS
Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Habitat for fish, shrimp
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect the entrance to marsh south of GICW at mile 383.2.
Number of personnel: 2-4 **Width of inlet:** 345 ft
Current: Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 29-K TGLO Polygon # 2 Quad Name Christmas Point****Site information:**

Site Description: Marsh @ ICWW MM 384

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map# 49
NOAA chart #	11322	County:	Brazoria	
Nearest ICW Marker:	384	Date last visited:	04-06-01	

Access:

Closest Boat Ramp:	San Luis Pass
Distance:	15 minutes
Boat type recommended:	Shallow hull or airboat
Closest Airport:	Scholes Field GLS
Closest Helicopter Landing:	Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	High
Environmental:	Habitat for fish, shrimp
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom entrance to marsh south of GICW at mile 384.		
Number of personnel:	2-4	Width of inlet:	380 ft
Current:	Slow	Water depth at mouth:	3 ft

Safety / Cautionary notes:

Site Specific Information**Site # 29-H TGLO Polygon # 4 Quad Name Christmas Point****Site information:**

Site Description: Entrance to Bastrop Bayou

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 49**
NOAA chart # 11322 **County:** Brazoria
Nearest ICW Marker: 382.5 **Date last visited:** 04-06-01

Access:

Closest Boat Ramp: Bastrop Bayou @ Hoskins Mound Road
Distance: ____ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field GLS
Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Habitat for fish, shrimp
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect entrance to Bastrop Bayou.
Number of personnel: 4-6 **Width of inlet:** 1250 ft
Current: Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 29-G TGLO Polygon # 5 Quad Name Christmas Point****Site information:**

Site Description: Bastrop Bay @ ICWW MM 382.7

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map# 49
NOAA chart #	11322	County:	Brazoria	
Nearest ICW Marker:	382.7	Date last visited:	04-05-01	

Access:**Closest Boat Ramp:** Bastrop Bayou @ Hoskins Mound Rd**Distance:** ____ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field GLS**Closest Helicopter Landing:** Scholes Field, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: Medium

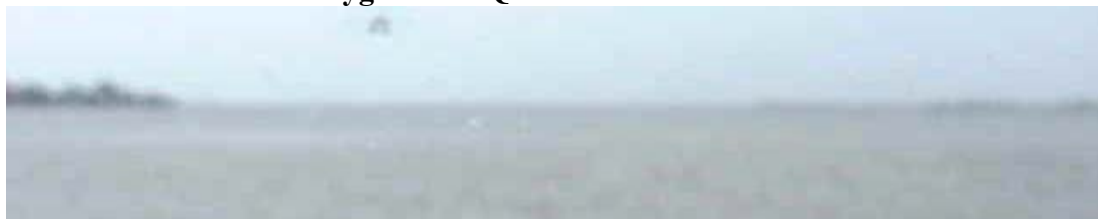
Environmental: Habitat for gulls, terns, wading birds

Economic: N/A

Booming strategy recommendations:

Recommendations:	Boom entrance at Bastrop Bay at mile 382.7		
Number of personnel:	2-4	Width of inlet:	330 ft
Current:	Slow	Water depth at mouth:	4 ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 29- TGLO Polygon # 5 Quad Name Christmas Point****Site information:**

Site Description: Cold Pass

South coordinate

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map# 49

North coordinate

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

NOAA chart #

11322

County:

Brazoria

Nearest ICW Marker:

380

Date last visited:

04-06-01

Access:**Closest Boat Ramp:**

San Luis Pass

Distance:

10-15 minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field GLS

Closest Helicopter Landing:

Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

Habitat for fish, shrimp

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom Cold Pass.

Number of personnel:

2-6

Width of inlet:

N/A ft

Current:

Slow

Water depth at mouth:

5 ft

Safety / Cautionary notes:

Expect swift currents during peak flood/edd.

Cascading diversion boom will be required in this area to divert product away from sensitive areas to collect points.

Site Specific Information**Site # 29-G TGLO Polygon # 5 Quad Name Christmas Point****Site information:**

Site Description: Entrance to Bastrop Bay

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map# 49
NOAA chart #	11322	County:	Brazoria	
Nearest ICW Marker:	382.5	Date last visited:	04-05-01	

Access:**Closest Boat Ramp:** Bastrop Bayou @ Hoskins Mound Road**Distance:** __ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field GLS**Closest Helicopter Landing:** Scholes Field, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: Medium

Environmental: Habitat for gulls, terns, wading birds

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect entrance to Bastrop Bay.**Number of personnel:** 4-6 **Width of inlet:** 1450 ft**Current:** Slow **Water depth at mouth:** 4 ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
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Site # 29- TGLO Polygon # 6 Quad Name Christmas Point



Site information:

Site Description: Marsh @ ICWW MM 390

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 49
NOAA chart # 11322 County: Brazoria
Nearest ICW Marker: 390 Date last visited: 04-06-01

Access:

Closest Boat Ramp: San Luis Pass
Distance: 10-15 minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field GLS
Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Habitat for wading birds, shorebirds, bivalves
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 Width of inlet: 50 ft
Current: Slow Water depth at mouth: 3 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 29- TGLO Polygon # 6 Quad Name Christmas Point

**Site information:**

Site Description: Marsh @ ICWW MM 388

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map# 49
NOAA chart #	11322	County:	Brazoria	
Nearest ICW Marker:	388	Date last visited:	04-06-01	

Access:

Closest Boat Ramp:	San Luis Pass
Distance:	10-15 minutes
Boat type recommended:	Shallow hull or airboat
Closest Airport:	Scholes Field GLS
Closest Helicopter Landing:	Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	High
Environmental:	Habitat for wading birds, shorebirds, bivalves
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	2-4	Width of inlet:	75 ft
Current:	Slow	Water depth at mouth:	2 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 29-L TGLO Polygon # 7 Quad Name Christmas Point

**Site information:**

Site Description: Drum Bay @ ICWW MM 387.5

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map# 49
NOAA chart #	11322	County:	Brazoria	
Nearest ICW Marker:	387.5	Date last visited:	04-06-01	

Access:

Closest Boat Ramp:	San Luis Pass
Distance:	10-15 minutes
Boat type recommended:	Shallow hull or airboat
Closest Airport:	Scholes Field GLS
Closest Helicopter Landing:	Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	SAV
Environmental:	Habitat for wading birds, gulls, terns, waterfowl, fish, shrimp, bivalves
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	2-4	Width of inlet:	260 ft
Current:	Slow	Water depth at mouth:	4 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 29-N TGLO Polygon # 7 Quad Name Christmas Point



Site information:

Site Description: Drum Bay @ ICWW MM 387 .8

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 49
NOAA chart # 11322 County: Brazoria
Nearest ICW Marker: 387.5 Date last visited: 04-06-01

Access:

Closest Boat Ramp: San Luis Pass
Distance: 10-15 minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field GLS
Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: SAV
Environmental: Habitat for wading birds, gulls, terns, waterfowl, fish, shrimp, bivalves
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 210 ft
Current: Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: _____

Site Specific Information

Site # 29- TGLO Polygon # 7 Quad Name Christmas Point

**Site information:**

Site Description: Marsh @ ICWW MM 389

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map#	49
NOAA chart #	11322	County:	Brazoria		
Nearest ICW Marker:	389	Date last visited:	04-06-01		

Access:

Closest Boat Ramp:	San Luis Pass
Distance:	10-15 minutes
Boat type recommended:	Shallow hull or airboat
Closest Airport:	Scholes Field GLS
Closest Helicopter Landing:	Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	SAV
Environmental:	Habitat for wading birds, gulls, terns, waterfowl, fish, shrimp, bivalves
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	2-4	Width of inlet:	ft
Current:	Slow	Water depth at mouth:	2 ft

Safety / Cautionary notes:

Site Specific Information

Site # 29- TGLO Polygon # 10

Quad Name Christmas Point

**Site information:**

Site Description: Churchill Bayou

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map# 49

NOAA chart #

11322

County:

Brazoria

Nearest ICW Marker:

380

Date last visited:

04-06-01

Access:

Closest Boat Ramp:

San Luis Pass

Distance:

10-15 minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field GLS

Closest Helicopter Landing:

Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

High

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:

Recommendations:

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:

150 ft

Current:

Slow

Water depth at mouth:

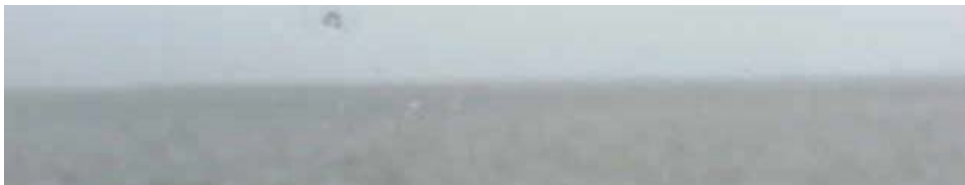
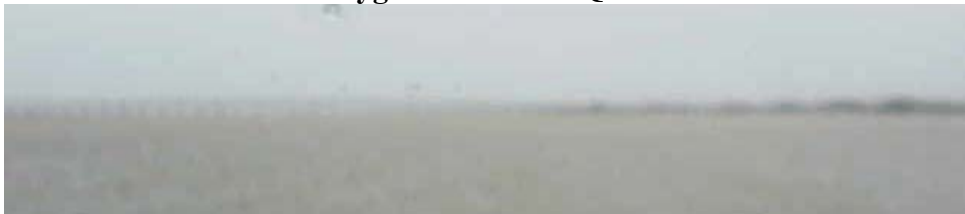
4 ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 29- TGLO Polygon # 14 Quad Name Christmas Point

**Site information:**

Site Description: San Luis Pass area

Latitude: (b) (7)(F), (b) (3)

NOAA chart # 11322

Nearest ICW Marker: 379

Longitude: (b) (7)(F), (b) (3) Map# 49

County: Brazoria

Date last visited: 04-06-01

Access:

Closest Boat Ramp: San Luis Pass

Distance: 10-15 minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field GLS

Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low

Environmental: N/A

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.

Number of personnel: 2-4 Width of inlet: ft

Current: Slow Water depth at mouth: ft

Safety / Cautionary notes: _____

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Site Specific Information

Site # 29- TGLO Polygon # 15 Quad Name Christmas Point

**Site information:**

Site Description: Bird Island

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 49
 NOAA chart # 11322 County: Brazoria
 Nearest ICW Marker: 380 Date last visited: 04-06-01

Access:

Closest Boat Ramp: Bastrop Bayou @ Hoskins Mound Rd

Distance: ___ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field GLS

Closest Helicopter Landing: Scholes Field, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on Hwy 87, crossing the San Luis Pass bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: Habitat for gulls, terns, wading birds
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 225 ft
Current: Slow **Water depth at mouth:** 5 ft

Safety / Cautionary notes: _____

2. COVE

N Trinity Bay (Cove Bayou to Baytown HL&P Spillway)

CHART(S): Nautical Chart (11326)
Upper Coast Atlas Page 20STAGING AREAS: Cotton Lake Boat Ramp (1)
(See Umbrella Point for additional sites)

ACCESS ROADS: I-10 to Farm Road 3246 South to Cotton Lake

DESCRIPTION:

*Note: The upper Trinity Bay area contains a large area of Salt and brackish water marshes from Cove Bayou to HL&P spillway, all effort should be made to prevent product from impacting this area.

- 2-A Boom entrance to Cove Bayou (340' wide)
- 2-B Boom east entrance to Dunn Lake (150' wide)
- 2-C Boom west entrance between Dunn Lake and Bayou (150' wide)
- 2-D Boom entrance to Dunn Bayou (285')
- 2-E Boom entrance to Cross Bayou
- 2-F Boom entrance to Double Bayou
- 2-G Boom entrance to Red Bayou
- 2-H Boom entrance to Baytown HL&P Spillway if no flow noted (600'wide)

NOTIFY:

Texas Parks & Wildlife Dept.	(281) 461-4071 Houston
U.S. Fish & Wildlife Service	(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. American Alligators and Bald Eagles have been sighted in this area.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

Site Specific Information

Site # 2-A TGLO Polygon # 1 Quad Name COVE

Site information:

Site Description: Entrance to Cove Bayou

The entrance to Cove Bayou enters a large area of salt and brackish marshes. All effort should be made to prevent product from impacting this area.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 20
 NOAA chart # 11326 County: Chambers
 Date last visited: _____

Access:

Closest Boat Ramp: Fort Anahuac Park
 Distance: 25 minutes
 Boat type recommended: Airboat, too shallow for boats
 Closest Airport: Chambers County Airport (TOO)
 Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **HIGH**
 Environmental: Waterfowl, Mottled duck, Alligator, Widgeon grass.
 Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom across entrance to bayou to protect sensitive marshes.

Number of personnel: 2-4 Width of inlet: 340 ft
 Current: Slow Water depth at mouth: _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline. American alligators are in this area.

Site Specific InformationSite # **2-B** TGLO Polygon # **1** Quad Name **COVE****Site information:**

Site Description: East entrance to Dunn Lake

The east entrance to Dunn Lake enters a large area of salt and brackish marshes. All effort should be made to prevent product from impacting this area.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 20
 NOAA chart # 11326 County: Chambers
 Date last visited: _____

Access:

Closest Boat Ramp: Fort Anahuac Park

Distance: 25 minutes

Boat type recommended: Airboat, too shallow for boats

Closest Airport: Chambers County Airport (TOO)

Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:Atlas Priority: **HIGH**

Environmental: Waterfowl, Mottled duck, Alligator, Widgeon grass.

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom across entrance to bayou to protect sensitive marshes.

Number of personnel: 2-4 **Width of inlet:** 150 ft
Current: Slow **Water depth at mouth:** ____ ft

Safety / Cautionary notes: Very shallow water near the shoreline. American alligators are in this area.

Site Specific Information

Site # 2-C TGLO Polygon # 1 Quad Name COVE

Site information:

Site Description: West entrance to Dunn Lake

The west entrance to Dunn Lake enters a large area of salt and brackish marshes. All effort should be made to prevent product from impacting this area.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 20
NOAA chart # 11326 **County:** Chambers
Date last visited: _____

Access:

Closest Boat Ramp: Fort Anahuac Park
Distance: 25 minutes
Boat type recommended: Airboat, too shallow for boats
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: HIGH
Environmental: Waterfowl, Mottled duck, Alligator, Widgeon grass.
Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom across entrance to bayou to protect sensitive marshes.

Number of personnel: 2-4 **Width of inlet:** 150 ft
Current: Slow **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline. American alligators are in this area.

Site Specific InformationSite # **2-D** TGLO Polygon # **5** Quad Name **COVE****Site information:**

Site Description: Entrance to Dunn Bayou

The entrance to Dunn Bayou enters a large area of salt and brackish marshes. All effort should be made to prevent product from impacting this area.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 20
 NOAA chart # 11326 County: Chambers
 Date last visited: _____

Access:

Closest Boat Ramp: Fort Anahuac Park
 Distance: _____ minutes
 Boat type recommended: Airboat, too shallow for boats
 Closest Airport: Chambers County Airport (TOO)
 Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **SAV**
 Environmental: Waterfowl, Mottled duck, Alligator, Widgeon grass.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to bayou to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 285 ft
Current: Slow **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline. American alligators are in this area.

Site Specific Information

Site # 2-E TGLO Polygon # 5 Quad Name COVE

Site information:

Site Description: Entrance to Cross Bayou

The entrance to Cross Bayou enters a large area of salt and brackish marshes. All effort should be made to prevent product from impacting this area.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 20
 NOAA chart # 11326 County: Chambers
 Date last visited: _____

Access:

Closest Boat Ramp: Fort Anahuac Park
 Distance: 25 minutes
 Boat type recommended: Airboat, too shallow for boats
 Closest Airport: Chambers County Airport (TOO)
 Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: SAV
 Environmental: Waterfowl, Mottled duck, Alligator, Widgeon grass.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to bayou to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: Slow **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline. American alligators are in this area.

Site Specific Information

Site # 2-F TGLO Polygon # 5 Quad Name COVE

Site information:

Site Description: Entrance to Double Bayou

The entrance to Double Bayou enters a large area of salt and brackish marshes. All effort should be made to prevent product from impacting this area.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) 1" Map # 20
 NOAA chart # 11326 County: Chambers
 Date last visited: _____

Access:

Closest Boat Ramp: Fort Anahuac Park
 Distance: 25 minutes
 Boat type recommended: Airboat, too shallow for boats
 Closest Airport: Chambers County Airport (TOO)
 Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: SAV
 Environmental: Waterfowl, Mottled duck, Alligator, Widgeon grass.
 Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom across entrance to bayou to protect sensitive marshes.

Number of personnel: 2-4 Width of inlet: _____ ft
 Current: Slow Water depth at mouth: _____ ft

Safety / Cautionary notes: Very shallow water near the shoreline. American alligators are in this area.

Site Specific Information**Site # 2-G TGLO Polygon # 5 Quad Name COVE****Site information:**

Site Description: Entrance to Red Bayou

The entrance to Red Bayou enters a large area of salt and brackish marshes. All effort should be made to prevent product from impacting this area.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 20
NOAA chart # 11326 **County:** Chambers
Date last visited: 25 April 2001

Access:

Closest Boat Ramp: Fort Anahuac Park
Distance: 25 minutes
Boat type recommended: Airboat, too shallow for boats
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: SAV
Environmental: Waterfowl, Mottled duck, Alligator, Atlantic croaker, Brown shrimp, Widgeon grass.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to bayou to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 300 ft
Current: Slow **Water depth at mouth:** 1 ft

Safety / Cautionary notes: Very shallow water near the shoreline. American alligators are in this area.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 2-H TGLO Polygon #

Quad Name COVE

**Site information:**

Site Description: HL&P Spillway

This is the flow through point between the large HL&P Cooling Pond and Trinity Bay.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map #	20
NOAA chart #	11326	County:	Chambers		
		Date last visited:	25 April 2001		

Access:**Closest Boat Ramp:**

Fort Anahuac Park

Distance:

30 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Chambers County Airport (TOO)

Closest Helicopter Landing:

Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TXGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:

SAV

Environmental:

Waterfowl, Mottled duck, Alligator, Atlantic croaker, Brown shrimp, Widgeon grass.

Economic:

N/A

Booming strategy recommendations:**Recommendations:** Boom across entrance to bayou to protect sensitive marshes.**Number of personnel:**

2-4

Width of inlet:

600 ft

Current:

Slow

Water depth at mouth:

2 ft

Safety / Cautionary notes:

36. DRESSING POINT

Gulf of Mexico, East Matagorda Bay and GIWW.

CHART(S): Nautical Chart (11319)
Upper Coast Atlas Page 59

STAGING AREAS: (See Matagorda for site)

ACCESS ROADS: N/A

DESCRIPTION:Gulf of Mexico

36-A Beach washout may form in this area, booming may be required. Beach access:
4X4 vehicles needed on Matagorda Peninsula.

East Matagorda Bay

36-B This bay complex is extremely sensitive, it contains numerous marsh & wetlands,
plus sheltered tidal flats. Every effort should be made to prevent any product from entering
this area.

GIWW

36-C Boom entrance to marsh north GIWW near Mile 427.4 (150' wide).

36-D Boom entrance to Live Oak Bayou south GIWW (420' wide).

36-E Boom entrance to Live Oak Bayou north GIWW (195' wide).

Note: Numerous spoil areas break to East Matagorda Bay from Live Oak Bayou to Mile
431.

36-F Boom entrance to Big Boggy Creek (180' wide)

36-G Boom entrance to Big Boggy Cut (1,150' wide)

36-H Boom entrance to marsh north GIWW near Mile 432.8 (225' wide)

NOTIFY:

Texas Parks & Wildlife Dept.	(281) 461-4071 Houston
U.S. Fish & Wildlife Service	(281) 286-8282 Houston
Big Boggy National Wildlife Refuge Manager	(409) 849-7771

CAUTION:

Tide condition need to be monitored to prevent equipment loss, or being stranded due to
high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats,
or airboats may be required to respond.

NATURAL COLLECTION AREA:

A large amount of debris is almost always present on Matagorda Peninsula.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 36-H TGLO Polygon # N/A Quad Name Dressing Point

Site information:

Site Description: North Marsh of ICW

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 59
 NOAA chart # 11319 County: Brazoria
 Nearest ICW Marker: 435 Date last visited: _____

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west over the San Luis Pass down past Freeport.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish, wading birds, upland/wetland plants

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.

Number of personnel: 2-4 **Width of inlet:** 40 ft

Current: Medium **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 36-G TGLO Polygon # N/A Quad Name Dressing Point

Site information:

Site Description: Big Boggy Cut

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map # 59**
NOAA chart # 11319 **County:** Brazoria
Nearest ICW Marker: _____ **Date last visited:** _____

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west over the San Luis Pass down past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish, wading birds, upland/wetland plants

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.

Number of personnel: 2-4 **Width of inlet:** 370 ft

Current: Medium **Water depth at mouth:** 4 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 36-F **TGLO Polygon #** N/A **Quad Name** Dressing Point

Site information:

Site Description: Big Boggy Creek

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 59
NOAA chart # 11319 **County:** Brazoria
Nearest ICW Marker: _____ **Date last visited:** _____

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west over the San Luis Pass down past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish, wading birds, upland/wetland plants

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.

Number of personnel: 2-4 **Width of inlet:** 106 ft

Current: Medium **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 36-D TGLO Polygon # N/A

Quad Name Dressing Point

Site information:

Site Description: Line Oak Bayou South

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11319
Nearest ICW Marker: _____

Longitude: (b) (7)(F), (b) (3) Map 59
County: Brazoria
Date last visited: _____

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west over the San Luis Pass down past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish, wading birds, upland/wetland plants

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 165 ft**Current:** Medium **Water depth at mouth:** 4 ft**Safety / Cautionary notes:**

Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 36-E TGLO Polygon # N/A Quad Name Dressing Point

Site information:

Site Description: Line Oak Bayou North

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 59
NOAA chart # 11319 County: Brazoria
Nearest ICW Marker: _____ Date last visited: _____

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west over the San Luis Pass down past Freeport.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish, wading birds, upland/wetland plants

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.

Number of personnel: 2-4 **Width of inlet:** 135 ft

Current: Medium **Water depth at mouth:** 5 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 36-B****TGLO Polygon # N/A****Quad Name Dressing Point****Site information:**

Site Description: Cut into Marsh

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11319
Nearest ICW Marker: _____

Longitude: (b) (7)(F), (b) (3)
County: Brazoria
Date last visited: _____

Map # 59**Access:****Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 west over the San Luis Pass down past Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for fish, wading birds, upland/wetland plants

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 75 ft**Current:** Medium **Water depth at mouth:** 3 ft**Safety / Cautionary notes:**

Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

19. FLAKE

Gulf of Mexico, GIWW, SW East Bay and Galveston Bay

CHART(S): Nautical Chart (11326 & 11331)
Upper Coast Atlas Page 37

STAGING AREA: Shirley's Bait Camp (2) (b) (7)(F), (b) (3)

ACCESS ROADS: Hwy 87 east from ferry landing to Boyt Road, turn left and follow signs to boat ramp.

DESCRIPTION:Gulf of Mexico

Beach washout may form in this area, booming may be required.

19-A Boom Freshwater Bayou at (b) (7)(F), (b) (3)

19-B Boom or fill beach washout at (b) (7)(F), (b) (3)

19-C Boom or fill beach washout at

19-D Boom or fill beach washout at

GIWW

19-E Boom close to spill site to prevent migration.

19-F Boom to protect numerous marshes from Mile 337 to Mile 346

19-G Boom entrance to housing area canals

19-H Boom entrance to Dredgeboat Slough

19-I Boom entrance to East Bay at Sievers Cove (3,600' wide)

East Bay

19-J Boom to protect Stingaree Cove

19-K Boom entrance to Big Elmgrove Bayou

19-L Boom entrance to Little Elmgrove Bayou

19-M Boom entrance to Pepper Grove Cove Bayou

NOTIFY:

Texas Parks & Wildlife Dept. (281) 461-4071 Houston

U.S. Fish & Wildlife Service (281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline and near Hanna Reef of East Bay, shallow draft boats, or airboats may be required to respond.

Note: Piping plover have been spotted along west Bolivar Peninsula beachfront.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

Site Specific Information**Site # 19-K TGLO Polygon # 1 Quad Name Flake****Site information:**

Site Description: Big Elmgrove Bayou, view of left photo facing east, view of right photo facing southeast

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 37**
NOAA chart # 11331 **County:** Galveston
Nearest ICW Marker: 340 **Date last visited:** 3-22-01
 By Jay Veselka (TGLO)

Access:

Closest Boat Ramp: Sievers Cove
Distance: 1-6 minutes
Boat type recommended: Shallow, aluminum hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **High**
Environmental: Habitat for Passerine birds, fish, shrimp, crabs, shorebirds, upland/wetlands plants
Economic: Along the Gulf Intracoastal Waterway

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes
Number of personnel: 4-8 **Width of inlet:** 90 ft
Current: Minimal **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

Site Specific Information**Site # 19-J TGLO Polygon # 1 Quad Name Flake****Site information:**

Site Description: Stingaree Cove view facing southeast.

Latitude: (b) (7)(F), (b) (3)**NOAA chart #** 11331**Nearest ICW Marker:** 340**Longitude:** (b) (7)(F), (b) (3) **Map# 37****County:** Galveston**Date last visited:** 3-22-01

By Jay Veselka (TGLO)

Access:**Closest Boat Ramp:** Blue Beacon Bait Camp**Distance:** ____ minutes**Boat type recommended:** Shallow, aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:**Atlas Priority:** **High****Environmental:** Habitat for Passerine birds, fish, shrimp, crabs, shorebirds, upland/wetlands plants**Economic:** Along the Gulf Intracoastal Waterway**Booming strategy recommendations:****Recommendations:** Boom to protect sensitive marshes**Number of personnel:** 4-8 **Width of inlet:** 90 ft**Current:** Minimal **Water depth at mouth:** 3 ft**Safety / Cautionary notes:** Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

Site Specific Information**Site # 19-L TGLO Polygon # 1 Quad Name Flake****Site information:**

Site Description: Little ElmGrove Bayou, view facing east.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11326
Nearest ICW Marker: 340

Longitude: (b) (7)(F), (b) (3) **Map# 37**
County: Galveston
Date last visited: 3-22-01
 By Jay Veselka (TGLO)

Access:

Closest Boat Ramp: Blue Beacon Bait Camp
Distance: ____ minutes
Boat type recommended: Shallow, aluminum hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Shallow, aluminum hull or airboat
Economic: Along Gulf Intracoastal Waterway

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** 40 ft
Current: Minimal **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 19-M TGLO Polygon # 1 Quad Name Flake



Site information:

Site Description: West edge of entrance to Pepper Grove Cove, top photo - view facing southwest, middle photo - view facing east, bottom photo - view facing east.

West End

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3) **Map# 37**

East End

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

NOAA chart # 11326

County: Galveston

Nearest ICW Marker: 340

Date last visited: 3-22-01

By Jay Veselka (TGLO)

Access:

Closest Boat Ramp:

Blue Beacon Bait Camp

Distance:

__ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

Central Texas Coastal Geographic Response Plan
July 2001TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727**Resources at Risk:**

Atlas Priority: High
Environmental: Habitat for Passerine birds, fish, shrimp, crabs, shorebirds,
upland/wetlands plants
Economic: Along the Gulf Intracoastal Waterway

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes		
Number of personnel:	4-6	Width of inlet:	N/A ft
Current:	Minimal	Water depth at mouth:	2 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping
plover have been spotted along the west Bolivar Peninsula beachfront.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 19- TGLO Polygon # N/A

Quad Name Flake

**Site information:**

Site Description: Example of a beach wash-over area, right photo view facing west, left photo view facing south

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11326, 11334
Nearest ICW Marker: 340

Longitude: (b) (7)(F), (b) (3) Map# 37
County: Galveston
Date last visited: 3-22-01
By Jay Veselka (TGLO)

Access:

Closest Boat Ramp: Sievers Cove
Distance: 1-6 minutes
Boat type recommended: Shallow, aluminum hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes
Number of personnel: 4-6 **Width of inlet:** 12 ft
Current: Minimal **Water depth at mouth:** 0.5 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

Site Specific Information**Site # 19-G TGLO Polygon # 3, 4, & 6 Quad Name Flake****Site information:**

Site Description: Example of an entrance to a housing area canal.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 37**
NOAA chart # 11326, 11331 **County: Galveston**
Nearest ICW Marker: MM 340 & 345 **Date last visited: 3-22-01**
 By Jay Veselka (TGLO)

Access:

Closest Boat Ramp: Blue Beacon Bait Camp
Distance: __ minutes
Boat type recommended: Shallow, aluminum hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Polygon 3 – Low, Polygon 4 – Medium, Polygon 6 - High
Environmental: Habitat for shorebirds, wading birds, gulls, terns, diving birds
Economic: Along the Gulf Intracoastal Waterway

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** 150 ft
Current: Minimal **Water depth at mouth:** 6 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

Site Specific Information**Site # 19-F TGLO Polygon # 3, 4, & 6 Quad Name Flake****Site information:**

Site Description: Example of a Marsh between Mile Markers 337-346.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11326, 11331
Nearest ICW Marker: MM 337 - 346
Longitude: (b) (7)(F), (b) (3)
County: Galveston
Date last visited: 3-22-01
 By Jay Veselka (TGLO)

Access:

Closest Boat Ramp: Blue Beacon Bait Camp
Distance: __ minutes
Boat type recommended: Shallow, aluminum hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Polygon 3 – Low, Polygon 4 – Medium, Polygon 6 - High
 Environmental: Habitat for shorebirds, wading birds, gulls, terns, diving birds
 Economic: Along the Gulf Intracoastal Waterway

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** 40 ft
Current: Minimal **Water depth at mouth:** 1.5 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

Site Specific Information**Site # 19-H TGLO Polygon # 4 & 5****Quad Name Flake****Site information:**

Site Description: Entrance to Dredgeboat Slough facing southeast.

Latitude: (b) (7)(F), (b) (3)**NOAA chart #** 11326**Nearest ICW Marker:** 335**Longitude:** (b) (7)(F), (b) (3)**County:** Galveston**Date last visited:** 3-22-01

By Jay Veselka (TGLO)

Map# 37**Access:****Closest Boat Ramp:** Sievers Cove**Distance:** 1-6 minutes**Boat type recommended:** Shallow, aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:**Atlas Priority:** Polygon 4 – Medium, Polygon 5 - High**Environmental:** Habitat for Passerine birds, raptors, wading birds**Economic:** Along the Gulf Intracoastal Waterway**Booming strategy recommendations:****Recommendations:** Boom to protect sensitive marshes**Number of personnel:** 4-6 **Width of inlet:** 350 ft**Current:** Minimal **Water depth at mouth:** 2.5 ft**Safety / Cautionary notes:** Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

Site Specific Information**Site # 19-H-1 TGLO Polygon # 5 Quad Name Flake****Site information:**

Site Description: Slough # 1 west of dredgeboat slough

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map#	37
NOAA chart #	11326, 11331	County:	Galveston		
Nearest ICW Marker:	340	Date last visited:	4-5-01		

Access:

Closest Boat Ramp:	Shirely's Blue Beacon
Distance:	___ minutes
Boat type recommended:	Shallow, aluminum hull or airboat
Closest Airport:	Scholes Field Airport GLS
Closest Helicopter Landing:	Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	High
Environmental:	Habitat for passerine birds, wading birds, raptors
Economic:	Along the Gulf Intracoastal Waterway.

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	4-6	Width of inlet:	400 ft
Current:	Minimal	Water depth at mouth:	3 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

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Site Specific Information**Site # 19-H-2 TGLO Polygon # 5 Quad Name Flake****Site information:**

Site Description: Slough # 2 west of dredgeboat slough.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map#	37
NOAA chart #	11326, 11331	County:	Galveston		
Nearest ICW Marker:	340	Date last visited:	4-05-01		

Access:

Closest Boat Ramp:	Shirely's Blue Beacon
Distance:	___ minutes
Boat type recommended:	Shallow, aluminum hull or airboat
Closest Airport:	Scholes Field Airport GLS
Closest Helicopter Landing:	Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	High
Environmental:	Habitat for passerine birds, wading birds, raptors
Economic:	Along the Gulf Intracoastal Waterway.

Booming strategy recommendations:

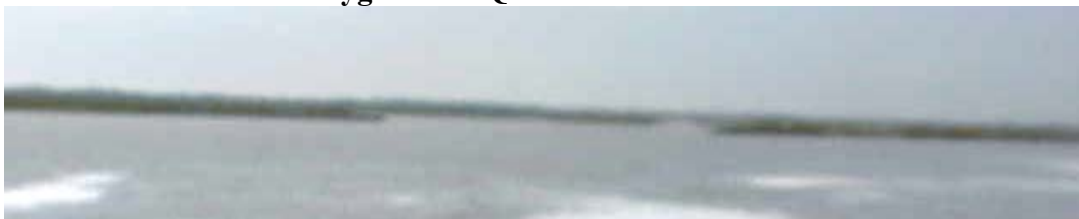
Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	4-6	Width of inlet:	300 ft
Current:	Minimal	Water depth at mouth:	3 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 19-H-3 TGLO Polygon # 5 Quad Name Flake

**Site information:**

Site Description: Slough # 3 west of dredgeboat.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map#	37
NOAA chart #	11326, 11331	County:	Galveston		
Nearest ICW Marker:	340	Date last visited:	4-05-01		

Access:

Closest Boat Ramp:	Shirely's Blue Beacon
Distance:	___ minutes
Boat type recommended:	Shallow, Aluminum hull or airboat
Closest Airport:	Scholes Field Airport GLS
Closest Helicopter Landing:	Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:**Resources at Risk:**

Atlas Priority:	High
Environmental:	Habitat for passerine birds, wading birds, raptors
Economic:	Along the Gulf Intracoastal Waterway.

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	4-6	Width of inlet:	500 ft
Current:	Minimal	Water depth at mouth:	3 ft

Safety / Cautionary notes: Very shallow water near the shoreline. Piping plover have been spotted along the west Bolivar Peninsula beachfront.

Site Specific Information**Site # 19-I TGLO Polygon # 8 Quad Name Flake****Site information:**

Site Description: East Bay at Sievers Cove, top photo is a view of the west end of Sievers Cove facing west, middle photo is a view of the east end of Sievers Cove facing west, bottom photo is a view of the Center of Sievers Cove facing southwest.

West end at ICWW Marker # 4

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3) **Map# 37**

East end at ICWW Marker # 2

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)

NOAA chart # 11326

County: Galveston

Nearest ICW Marker: 340

Date last visited: 3-22-01

By Jay Veselka (TGLO)

Access:**Closest Boat Ramp:**

Blue Beacon Marina

Distance:

___ minutes

Boat type recommended:

Shallow, aluminum hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 across the Bolivar Ferry crossing landing on the Bolivar side.

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Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TXGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:

High

Environmental:

Habitat for Passerine birds, fish, shrimp, crabs, shorebirds,
upland/wetlands plants

Economic:

Along the Gulf Intracoastal Waterway

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes

Number of personnel:

4-8

Width of inlet:

3,600 ft

Current:

Minimal

Water depth at mouth:

4 ft

Safety / Cautionary notes:Very shallow water near the shoreline. Piping
plover have been spotted along the west Bolivar Peninsula beachfront.

Map #31 - FROZEN POINT

Rollover Bay, GIWW and East Bay

CHARTS(S): Nautical Chart (11331)

Upper Coast Atlas Page 31

STAGING AREA: Public boat ramp on the GIWW at Mile 329.7 at end of Yacht Basin Rd.

(b) (7)(F), (b) (3)

ACCESS ROAD: Public boat ramp on the GIWW at Mile 336, I-45 south from Houston to seawall on Galveston Island. Turn left on Seawall Blvd. (FM 3005) and proceed east to the Bolivar Ferry located at the east end of the Island. Cross the ferry to Hwy 87. Proceed to Rollover Pass, turn left and proceed north to the boat ramp located on Yacht Basin Rd.

DESCRIPTION:Rollover Bay

Boom to protect Islands on north side of Rollover Bay

Boom Rollover Bay: Rollover Pass currents can exceed 5+ knots during peak Ebb/Flood.

Offshore diversion boom should be considered depending on surf conditions. Flood

Currents in Rollover Bay tend to run to the N NW. Diversion boom should be placed north of Rollover pass to direct product to the west side of Rollover Bay. Rollover Bay is very sensitive, marshes are located all along the shoreline, plus numerous bird rookery areas have been identified. Protect the Spoil Islands located within Rollover Bay and north of the GIWW. Make every attempt to prevent product from entering East Bay and protecting Anahuac National Wildlife Refuge

Boom cut which crosses under Yacht Basin Rd. (30' wide)

GICW

Boom GIWW near spill site to prevent migration.

Rollover Bay to Caplen is an extremely sensitive marsh area, Boom to prevent impact to south shoreline.

East Bay

East Bay is very environmentally sensitive; most of the shoreline is salt and brackish water marshes.

Boom to protect numerous unnamed coves, and marshes on Long Point

Boom entrance to Little Pasture Bayou

Boom entrance to Sun Oil Company canal

Boom entrance to Ghost Bayou

Boom entrance to Big Pasture Bayou

Boom entrance to Robinson Bayou

Boom entrance to Robinson Lake

Map #31 - FROZEN POINT (continued)**NOTIFY:**

Anahuac National Wildlife Refuge Manager (409) 267-3337

Texas Parks & Wildlife Dept. (281) 461-4071 Houston

US Fish & Wildlife Service (281) 286-8282 Houston

CAUTION:

Very shallow water near the shore line, shallow draft boats, or airboats may be required to respond. American Alligators have been sighted in this area.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

23. GALVESTON

Gulf of Mexico, Bolivar Roads and S Galveston Bay

CHART(S): Nautical Chart (11324 & 11326)
Upper Coast Atlas Page 41

STAGING AREA: 1. Galveston Yacht Basin (2) (b) (7)(F), (b) (3)

2. Erman Pilsner Boat Ramp (2)

3. Pleasure Island Boat Ramp (2)

ACCESS ROAD: 1. I-45 south from Houston to Harbor Drive, turn left and proceed to N. Holiday Dr., turn left and proceed to marina gate.

2. Bolivar Ferry Landing proceed east on Hwy 87 to 16th. Street, turn right and proceed to end of road boat ramp.

3. I-45 south from Houston to Teichman Rd., turn right and proceed to Blume Dr., turn right and proceed to end of road boat ramp.

DISCRIPTION:

Swift currents (3+) in this area will require cascading diversion boom techniques to divert product away form sensitive areas, or to collection sites.

Bolivar Roads

23-A Boom entrance to The Lagoon (50' wide)

23-B Boom to protect marsh northeast of Fort Travis Seashore Park

23-C Boom entrance to Horseshoe Lake (100' wide)

Galveston Bay

23-D Boom to protect northeast shore of Pelican Island

23-E Boom to protect northwest shore of Pelican Island

23-F Boom to protect southwest shore of Pelican Island Spit

23-G Boom entrance to march on Pelican Island east of bridge (40' wide)

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Large swells may develop near deep draft vessel movement, extra caution is recommended while operating near the Texas City Dike and Pelican Island areas. Very shallow water near the shoreline of Pelican Island and Pelican Island Spit.

NATURAL COLLECTION AREA:

Debris has been noted on the southwest beach of Bolivar Peninsula. The east shore of Pelican Island tends to collect large quantities of debris.

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Site Specific Information

Site # 23- TGLO Polygon # 13 Quad Name Galveston

**Site information:**

Site Description: 61st street boat ramp, Offatts Bayou.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 41
NOAA chart # 11324,11326 County: Galveston
Nearest ICW Marker: 358 Date last visited: 4 April 2001

Access:

Closest Boat Ramp: 61st street boat ramp

Distance: 0 minutes

Boat type recommended: Any

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Go Broadway north and exit 61st , then go left. The boat ramp is half mile on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low

Environmental: Habitat for dolphins, waterfowl, diving birds, fish, shrimp

Economic: Recreational boating

Booming strategy recommendations:

Recommendations: Boom entrance to Offatts Bayou.

Number of personnel: 2-4 Width of inlet: _____ ft

Current: Minimal Water depth at mouth: _____ ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 23-A TGLO Polygon # 12 Quad Name Galveston

**Site information:**

Site Description: boom entrance to the lagoon.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 41
NOAA chart # 11324,11326 County: Galveston
Nearest ICW Marker: 348 Date last visited: 4 April 2001

Access:

Closest Boat Ramp: Galveston Yacht Basin
Distance: 10 minutes
Boat type recommended: V-hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
[REDACTED]

From MSU Galveston:

Same as new area

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: Habitat for fish
Economic: Recreational boating

Booming strategy recommendations:

Recommendations: Boom entrance to the Lagoon
Number of personnel: 2-4 Width of inlet: _____ ft
Current: Medium Water depth at mouth: _____ ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 23- TGLO Polygon # 15 Quad Name Galveston

**Site information:**

Site Description: east shore of Sydnor Bayou, wetlands on east and west shore.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 41
NOAA chart # 11324, 11326 **County:** Galveston
Nearest ICW Marker: 357 **Date last visited:** 4 April 2001

Access:

Closest Boat Ramp: Turtle Lake Apartments
Distance: 20 minutes
Boat type recommended: Flat bottom
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Take Seawall toward Freeport to 89th St. and turn right to Stewart. Then go left to 99th St. Go right to Sydnor Rd. go right and the Lake is on the right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
Environmental: N/A
Economic: Near Scholes Field Airport

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: Minimal **Water depth at mouth:** _____ ft

Safety / Cautionary notes:

Site Specific Information**Site # 23-C TGLO Polygon # 11****Quad Name Galveston****Site information:**

Site Description: boom entrance to Horseshoe Lake.

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map # 41****NOAA chart #** 11324,11326**County:** Galveston**Nearest ICW Marker:** 348**Date last visited:** 4 April 2001**Access:****Closest Boat Ramp:**

Erman Picsner

Distance:

10 minutes

Boat type recommended:

V-hull

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Cross Ferry and take 87 to first left onto French Town Rd. Entrance is first small bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

Habitat for turtles

Economic:

Commercial-fishing boats

Booming strategy recommendations:**Recommendations:**

Boom entrance to Horseshoe Lake

Number of personnel:

2-4

Width of inlet:

____ ft

Current:

Medium

Water depth at mouth:

____ ft

Safety / Cautionary notes:

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Site Specific Information

Site # 23-G TGLO Polygon # 8 Quad Name Galveston



Site information:

Site Description: boom entrance to marsh on Pelican Island east of bridge (40' wide).

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 41
NOAA chart # 11324,11326 County: Galveston
Nearest ICW Marker: 352 Date last visited: 4 April 2001

Access:

Closest Boat Ramp: TAMU oil spill control school
Distance: 2 minutes
Boat type recommended: V-hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport (b) (7)(F), (b) (3)
[REDACTED]

From MSU Galveston:

From MSU, take Harborside to 51st turn right. Just past the bridge turn right into TAMU. Follow road to right. Marsh on right

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: Habitat for wading birds, gulls, terns, diving birds, upland/wetland plants
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 Width of inlet: _____ ft
Current: High Water depth at mouth: _____ ft

Safety / Cautionary notes: Large swells may develop near deep draft vessel movement, extra caution is recommended while operating near the Texas City Dike and Pelican Island areas. Very shallow water near the shoreline of Pelican Island and Pelican Island Spit.

Site Specific Information**Site # 23-B TGLO Polygon # 10 Quad Name Galveston****Site information:**

Site Description: boom to protect marsh northeast of Ft. Travis Seashore Park. No marsh found. All beach VP to north jetty.

Latitude: (b) (7)(F), (b) (3) **Longitude:** W (b) (7)(F), (b) (3) **Map # 41**
NOAA chart # 11324,11326 **County:** Galveston
Nearest ICW Marker: 349 **Date last visited:** 4 April 2001

Access:

Closest Boat Ramp: Pilsner Boat Ramp
Distance: 1 minutes
Boat type recommended: V-hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 (b) (7)(F), (b) (3)

From MSU Galveston:

Cross Ferry. Take 87 east to 16th St. go right, go to beach make right and follow Fort Travis.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: Habitat for turtles, fish, wading birds
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: Medium **Water depth at mouth:** _____ ft

Safety / Cautionary notes:

Site Specific Information**Site # 23-C-1 TGLO Polygon # 10 Quad Name Galveston****Site information:**

Site Description: marsh surrounding Horseshoe Lake.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 41
NOAA chart # 11324,11326 **County:** Galveston
Nearest ICW Marker: 348 **Date last visited:** 4 April 2001

Access:

Closest Boat Ramp: Erman Pilsner
Distance: 10 minutes
Boat type recommended: Shallow, flat bottom
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:Cross Ferry. Take 87 east. Take 1st left onto Frenchtown Rd. Marsh is on the right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
Environmental: Habitat for turtles
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom entrance to Horseshoe Lake and sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: Slow **Water depth at mouth:** _____ ft

Safety / Cautionary notes:

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Site Specific Information**Site # 23-C-2 TGLO Polygon # 11 Quad Name Galveston****Site information:**

Site Description: Horseshoe Lake area.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 41
NOAA chart # 11324, 11326 **County:** Galveston
Nearest ICW Marker: 348 **Date last visited:** 4 April 2001

Access:

Closest Boat Ramp: Erman Pilsner
Distance: 10 minutes
Boat type recommended: Shallow, flat bottom
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:Cross Ferry. Take 87 east take 1st left onto Frenchtown Rd. Lake on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
Environmental: Turtles
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: Slow **Water depth at mouth:** _____ ft

Safety / Cautionary notes:

Site Specific Information**Site # 23-D TGLO Polygon # 1 Quad Name Galveston****Site information:**

Site Description: Pelican island spit north of GIWW.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 41
NOAA chart # 11324, 11326 **County:** Galveston
Nearest ICW Marker: 352 **Date last visited:** 16 May 2001

Access:

Closest Boat Ramp: Texas City Dike Marina
Distance: 10 minutes
Boat type recommended: V-Hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

No land access

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
Environmental: Nursery and fishing, rookery, and smooth cordgrass.
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Large swells may develop near deep draft vessel movement, extra caution is recommended while operating near the Texas City Dike and Pelican Island areas. Very shallow water near the shoreline of Pelican Island and Pelican Island Spit.

Site Specific Information**Site # 23-D-1 TGLO Polygon # 6 Quad Name Galveston****Site information:**

Site Description: Pelican island spit north of GIWW.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 41
NOAA chart # 11324,11326 **County:** Galveston
Nearest ICW Marker: 352 **Date last visited:** 16 May 2001

Access:

Closest Boat Ramp: Texas City Dike Marina
Distance: 10 minutes
Boat type recommended: V-Hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport (b) (7)(F), (b) (3)

From MSU Galveston:

Take Broadway south from I-45 to 51st St. go left across the bridge. Various dirt roads lead to north side of island.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
 Environmental: large rookery area
 Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Large swells may develop near deep draft vessel movement, extra caution is recommended while operating near Pelican Island areas. Very shallow water near the shoreline of Pelican Island and Pelican Island Spit.

Site Specific Information**Site # 23-D TGLO Polygon # 7 Quad Name Galveston****Site information:**

Site Description: northeastern shore of Pelican Island.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 41
NOAA chart # 11324,11326 **County:** Galveston
Nearest ICW Marker: 352 **Date last visited:** 16 May 2001

Access:

Closest Boat Ramp: Texas City Dike Marina
Distance: 10 minutes
Boat type recommended: V-Hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Broadway south from I-45 to 51st St. go left across the bridge. Various dirt roads lead to north side of island.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **High**
Environmental: Wetlands; nursery; rookery
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Large swells may develop near deep draft vessel movement, extra caution is recommended while operating near Pelican Island areas.

Site Specific Information**Site # 23-E TGLO Polygon # 8 Quad Name Galveston****Site information:**

Site Description: off north shore of Pelican Island.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 41
NOAA chart # 11324,11326 **County:** Galveston
Nearest ICW Marker: 352 **Date last visited:** 16 May 2001

Access:

Closest Boat Ramp: Texas City Dike Marina
Distance: 10 minutes
Boat type recommended: V-Hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Broadway south from I-45 to 51st St. go left across the bridge. Various dirt roads lead to north side of island.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
Environmental: Fishing area; nursery; rookery
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Large swells may develop near deep draft vessel movement, extra caution is recommended while operating near Pelican Island areas. Very shallow water near the shoreline of Pelican Island and Pelican Island Spit.

Site Specific Information**Site # 23-D-1 TGLO Polygon # 9 Quad Name Galveston****Site information:**

Site Description: Eastern Shore of Pelican Island.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 41
NOAA chart # 11324,11326 **County:** Galveston
Nearest ICW Marker: 352 **Date last visited:** 16 May 2001

Access:

Closest Boat Ramp: Texas City Dike Marina
Distance: 10 minutes
Boat type recommended: V-Hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Broadway south from I-45 to 51st St. go left across the bridge. Various dirt roads lead to north side of island.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
Environmental: Fishing area; nursery; rookery
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: Large swells may develop near deep draft vessel movement, extra caution is recommended while operating near the Texas City Dike and Pelican Island areas. Very shallow water near the shoreline of Pelican Island and Pelican Island Spit.

Map #30 - HIGH ISLAND

Gulf of Mexico, GIWW, E East Bay and Rollover Bay

CHART(S): Nautical Chart (11331)
Upper Coast Atlas page 30

STAGING AREA: High Island State Park public boat ramp(2)
(b) (7)(F), (b) (3)

ACCESS ROAD: East on I-10 from Houston to Hwy 124, exit to Winnie.
Turn right on Hwy 124 and proceed south to the High Island Bridge. Cross the bridge and exit right to the boat ramp located on the south side of the bridge. Note: ramp is not in good shape

DESCRIPTION:GICW

Boom GIWW near spill site to prevent migration.
Boom entrances of East Bay Bayou NWR (195' & 240' wide)
Boom entrances of Horseshoe Bend NWR (180' & 195' wide)
Boom entrance of Small Horseshoe Bend NWR (285' wide)
Boom cut to marsh Mile 322 south side (135' wide)
Boom cut to marsh Mile 323.2 NWR (75' wide)
Boom entrance of Stough Bayou (120' wide)
Boom entrance of Brushy Bend Bayou (105' wide)
Boom cut leading to East Bay W Brant Island (1,065' wide)
Boom cut leading to East Bay at Buoy "6" (540' wide)
Boom canals to housing Mile 326.5 to 327 (150' wide each)
Boom canal to housing Buoy "2" Rollover Bay (150' wide)

East Bay

Boom entrance to Oyster Bayou (350' wide)

Rollover Bay

Boom to protect Islands on north side of Rollover Bay
Booming Rollover Bay: Rollover Pass currents can exceed 5+ knots during peak Ebb/Flood. Offshore diversion boom should be considered depending on surf conditions. Flood Currents in Rollover Bay tend to run to the N NW. Diversion boom should be placed north of Rollover pass to direct product to the west side of Rollover Bay. Rollover Bay is very sensitive, marshes are located all along the shoreline, plus numerous bird rookery areas have been identified. Protect the Spoil Islands located within Rollover Bay and north of the GIWW. Make every attempt to prevent product from entering East Bay and protecting Anahuac National Wildlife Refuge

NOTIFY:

Anahuac National Wildlife Refuge Manager (409) 267-3337
Texas Parks & Wildlife Dept. (281) 461-4071 Houston

US Fish & Wildlife Service (281) 286-8282 Houston

Map #30 - HIGH ISLAND (continued)

CAUTION:

Very shallow water near the shoreline and in Rollover Bay, shallow draft boats, or airboats may be required to respond. American Alligators have been sighted in this area. Numerous canals and housing areas near Rollover Bay are present. Passing emergency information in this area is slow. Beach driving in this area can be hazardous during high tide conditions, some areas require four wheel drive vehicles.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

3. HIGHLANDS

Houston Ship Channel (Crystal Bay to San Jacinto State Park, including the San Jacinto River)

CHART(S): Nautical Chart (11326,11329)
Upper Coast Atlas page 21

STAGING AREA: 1. Public boat ramp (4) located on East side of San Jacinto River at I-10. *Note: Ramp is no longer present, small boats can still be launched at this site.

(b) (7)(F), (b) (3)

2. Riverside Marina (2) located on the San Jacinto River on River Rd

(b) (7)(F), (b) (3)

3. River Terrace Park (2) located on Old River off Market street

ACCESS ROADS: 1. San Jacinto River boat ramp: East from Houston on Interstate 10 to the San Jacinto River bridge. Cross-river to East side of bridge, exit on FM 2100 and turn right to boat ramp entrance.

2. West on Interstate 10 to Monmouth Rd. Turn right on Monmouth Rd go T in road, turn left and take first street to right Park Rd. Proceed down road to Riverside Marina.

3. West of Interstate 10 to Monmouth Rd. Turn left on Monmouth to Market, turn right on Market look for park entrance on the left.

DESCRIPTION:Crystal Bay

3-A Boom cut to marsh (b) (7)(F), (b) (3) (100' wide)

3-B Boom park area west of Bayshore Rd. (500' wide)

Burnet Bay

3-C Boom to protect marsh at Brownwood Subdivision Nature Preserve

3-D Boom entrance to Freshwater Bayou (450' wide)

3-E Boom entrance to Spring Bayou (600' wide)

3-F Boom entrance to marsh east of Lakeview Rd. (330' wide)

San Jacinto River

3-G Boom to protect marsh area south of I-10 east bank (2000' wide)

3-H Boom to protect Parkers Cove (300' wide)

3-I Boom cut to facility at (b) (7)(F), (b) (3) (400' wide)

3-J Boom entrance to Bear Bayou (1000' wide)

3-K Boom to protect R/R entrance to Whites Lake (225' wide)

3-L Boom to protect Small Islands south of Grennel Slouth

Houston Ship Channel

3-M Boom Battleship Texas (State Historical Park) (200' wide)

3-N Boom entrance to San Jacinto River (900' wide)

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3-O Boom entrance to Old River (1,500' wide)

3-P Boom entrance to Carpenters Bayou (650' wide)

CAUTION:

Very shallow water near the shore line, shallow draft boats, or airboats may be required to respond. Numerous tree stumps are located on the San Jacinto River. Swift current has been noted on the San Jacinto River near I-10.

NATURAL COLLECTION AREA:

Debris has been noted on the shoreline near Santa Anna Bayou. River debris tends to collect on the West bank on the river south of Rio Villa Rd.

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Site Specific Information

Site # 3-A TGLO Polygon # 2 Quad Name HIGHLANDS



Site information:

Site Description: Marsh at Crystal Bay

This marsh is along the southeast shore of Crystal Bay in Baytown, TX.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 21
NOAA chart # 11329 County: Harris
Date last visited: 24 April 2001

Access:

Closest Boat Ramp: River Terrace Park
Distance: 20 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **LOW**
Environmental: Gulf menhaden, Seatrout, Croaker, White shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect marsh.
Number of personnel: 2-4 Width of marsh: 200 ft
Current: N/A Water depth at mouth: N/A

Safety / Cautionary notes: All approaches to Crystal Bay are through shallow water.

Site Specific InformationSite # **3-B** TGLO Polygon # **7** Quad Name **HIGHLANDS****Site information:**

Site Description: Crystal Bay- Park west of Bayshore Road

This park is on an isthmus between Crystal and Burnet Bays. There is fringe marsh around most of it that needs protecting.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 21
NOAA chart # 11329 **County:** Harris
Date last visited: 24 April 2001

Access:

Closest Boat Ramp: River Terrace Park
Distance: 20 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **MEDIUM**
 Environmental: Gulf menhaden, Seatrout, Croaker, White shrimp.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom with 1500' of boom to protect exposed fringe marsh.
Number of personnel: 2-4 **Width of inlet:** N/A
Current: N/A **Water depth at mouth:** N/A

Safety / Cautionary notes: Approaches from Houston Ship Channel are through shallow water. Very shallow near shore, airboats may be needed.

Site Specific Information

Site # 3-C TGLO Polygon # 7 Quad Name HIGHLANDS

**Site information:**

Site Description: Burnet Bay- Marsh at Brownwood Subdivision Nature Preserve
This sensitive marsh is along the south shore of Burnet Bay near Freshwater Bayou.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 21
NOAA chart # 11329 **County:** Harris
Date last visited: 24 April 2001

Access:

Closest Boat Ramp: River Terrace Park
Distance: 20 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: MEDIUM
Environmental: Gulf menhaden, Seatrout, Croaker, White shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom with 1000' of boom to protect exposed fringe marsh.
Number of personnel: 2-4 **Width of inlet:** N/A
Current: Slow **Water depth at mouth:** N/A

Safety / Cautionary notes: Approaches from Houston Ship Channel are through shallow water. Very shallow near shore, airboats may be needed.

Site Specific InformationSite # **3-D** TGLO Polygon # **N/A** Quad Name **HIGHLANDS****Site information:**

Site Description: Burnet Bay- Entrance to Freshwater Bayou
Freshwater Bayou is at the southeast corner of Burnet Bay and leads into housing in Baytown. Along the banks are fringe marshes that need protecting.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 21
NOAA chart # 11329 County: Harris
Date last visited: 24 April 2001

Access:

Closest Boat Ramp: River Terrace Park
Distance: 25 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **LOW**
Environmental: Gulf menhaden, Seatrout, Croaker, White shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 400 ft
Current: Slow **Water depth at mouth:** 4 ft

Safety / Cautionary notes: Approaches from Houston Ship Channel are through shallow water. Very shallow near shore, airboats may be needed.

Site Specific InformationSite # **3-E** TGLO Polygon # **N/A** Quad Name **HIGHLANDS****Site information:**

Site Description: Burnet Bay- Entrance to Spring Bayou
Spring Bayou is at the northeast corner of Burnet Bay and leads into housing in Baytown.
Along the banks are fringe marshes that need protecting.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 21
NOAA chart # N/A County: Harris
Date last visited: 24 April 2001

Access:

Closest Boat Ramp: River Terrace Park
Distance: 30 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **LOW**
Environmental: Gulf menhaden, Seatrout, Croaker, White shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to prevent migration inland.
Number of personnel: 2-4 Width of inlet: 400 ft
Current: Slow Water depth at mouth: 1 ft

Safety / Cautionary notes: Approaches from Houston Ship Channel are through shallow water. Very shallow near shore, airboats may be needed.

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Site Specific Information

Site # 3-F TGLO Polygon # N/A Quad Name HIGHLANDS

**Site information:**

Site Description: Burnet Bay- Marsh east of Lakeview Road

This sensitive marsh is along the northwest shore of Burnet Bay near Spring Bayou.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 21
 NOAA chart # N/A County: Harris
 Date last visited: 24 April 2001

Access:

Closest Boat Ramp: River Terrace Park
 Distance: 30 minutes
 Boat type recommended: Shallow, aluminum hull
 Closest Airport: Baytown Airport, Baytown (HPY)
 Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **LOW**
 Environmental: Gulf menhaden, Seatrout, Croaker, White shrimp.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom with 1000' of boom to protect exposed fringe marsh.
 Number of personnel: 2-4 Width of inlet: N/A
 Current: N/A Water depth at mouth: N/A

Safety / Cautionary notes: Approaches from Houston Ship Channel are through shallow water. Very shallow near shore, airboats may be needed.

Site Specific Information**Site # 3-G TGLO Polygon # 3 Quad Name HIGHLANDS****Site information:**

Site Description: Marshes along East Bank south of I-10 in San Jac River
 These marshes are along the east bank of the San Jacinto River just below I-10. There are some barrier islands that boom could be anchored to, to protect the interior marshes.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 21
NOAA chart # 11329 **County:** Harris
Date last visited: 26 March 2001

Access:

Closest Boat Ramp: Riverside Marina
Distance: 10 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to Monmouth Road. North on Monmouth Rd. to T in road. Turn left and take first right, ark Rd. Proceed down Park Rd. to riverside Marina.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **MEDIUM**
 Environmental: Nursery, Wetlands.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom with 2000' of boom .
Number of personnel: 4-6 **Width of inlet:** N/A
Current: Moderate **Water depth at mouth:** N/A

Safety / Cautionary notes: Swift current has been noted on the San Jacinto River near I-10.

Site Specific InformationSite # **3-H** TGLO Polygon # **4** Quad Name **HIGHLANDS****Site information:**

Site Description: Bridge above Parker's Cove

This Railroad Bridge spans the main channel of the San Jacinto River and is a good choke point to prevent product migration downstream.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 21
 NOAA chart # 11329 County: Harris
 Date last visited: 26 March 2001

Access:

Closest Boat Ramp: Riverside Marina
Distance: 2 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **MEDIUM**
 Environmental: Osprey, Atlantic croaker, Grass shrimp, Smooth cordgrass.
 Economic: N/A

Booming strategy recommendations:

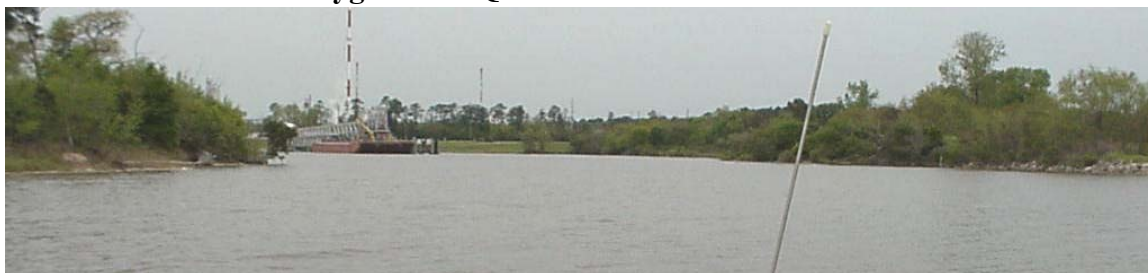
Recommendations: Boom at 45 degree angle with 1000' of boom to collect along west bank.
Number of personnel: 4-6 **Width of inlet:** 500 ft
Current: Moderate **Water depth at mouth:** 16 ft

Safety / Cautionary notes: Very shallow water near the shoreline, airboats may be needed. Numerous tree stumps are located on the San Jacinto River. During periods of heavy rainfall, the river current can be swift.

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 3-I TGLO Polygon # 2 Quad Name HIGHLANDS

**Site information:**

Site Description: Entrance to Lyondell Plant in San Jac River

This cut leads from the main channel of the San Jacinto River to the Lyondel Plant.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map #	21
NOAA chart #	11329	County:	Harris		
		Date last visited:	26 March 2001		

Access:

Closest Boat Ramp:	Riverside Marina
Distance:	10 minutes
Boat type recommended:	Shallow, aluminum hull
Closest Airport:	Baytown Airport, Baytown (HPY)
Closest Helicopter Landing:	Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	LOW
Environmental:	Osprey, Atlantic croaker, Grass shrimp, Smooth cordgrass.
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom across entrance to prevent migration		
Number of personnel:	2-4	Width of inlet:	400 ft
Current:	Slow	Water depth at mouth:	15 ft

Safety / Cautionary notes: Very shallow water near the shoreline, airboats may be needed. Numerous tree stumps are located on the San Jacinto River. During periods of heavy rainfall, the river current can be swift.

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 3-J TGLO Polygon # 2 Quad Name HIGHLANDS

**Site information:**

Site Description: Bear Bayou in San Jac River

Bear Bayou is a sensitive area just up channel of Lyondel. The bayou is full of stumps.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 21
NOAA chart # 11329 **County:** Harris
Date last visited: 26 March 2001

Access:

Closest Boat Ramp: Riverside Marina
Distance: 15 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

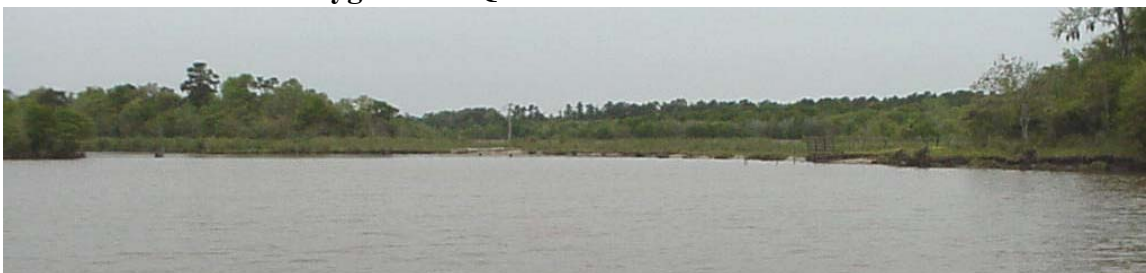
Resources at Risk:

Atlas Priority: **LOW**
 Environmental: Osprey, Atlantic croaker, Grass shrimp, Smooth cordgrass.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom shallows on west side of channel to prevent migration into the bayou. Bear Bayou is very shallow numerous tree stumps.
Number of personnel: 4-8 **Width of inlet:** 1000 ft
Current: Moderate **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Very shallow water near the shoreline, airboats may be needed. Numerous tree stumps are located on the San Jacinto River. During periods of heavy rainfall, the river current can be swift.

Site Specific Information**Site # 3-K TGLO Polygon # 1 Quad Name HIGHLANDS****Site information:**

Site Description: Entrance to George White Lake

George White Lake is a sensitive marsh area off of the San Jacinto River.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map #	21
NOAA chart #	11329	County:	Harris		
		Date last visited:	26 March 2001		

Access:

Closest Boat Ramp:	Riverside Marina
Distance:	25 minutes
Boat type recommended:	Shallow, aluminum hull
Closest Airport:	Baytown Airport, Baytown (HPY)
Closest Helicopter Landing:	Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	MEDIUM
Environmental:	Osprey, Wading birds, Arrowhead.
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom across entrance to prevent migration into the marsh.		
Number of personnel:	2-4	Width of inlet:	225 ft
Current:	Slow	Water depth at mouth:	6 ft

Safety / Cautionary notes: Very shallow water near the shoreline, airboats may be needed. Numerous tree stumps are located on the San Jacinto River. During periods of heavy rainfall, the river current can be swift.

Site Specific Information**Site # 3-L TGLO Polygon # 2 Quad Name HIGHLANDS****Site information:**

Site Description: Grennel Slough Islands in San Jac River

These islands act as a barrier for the sensitive shallows from the main channel of the San Jacinto River.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map #	21
NOAA chart #	11329	County:	Harris		
		Date last visited:	26 March 2001		

Access:

Closest Boat Ramp:	Riverside Marina
Distance:	15 minutes
Boat type recommended:	Shallow, aluminum hull
Closest Airport:	Baytown Airport, Baytown (HPY)
Closest Helicopter Landing:	Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	Low
Environmental:	Osprey, Atlantic croaker, Grass shrimp, Smooth cordgrass.
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom between islands to protect shallows, and place cascading diversion boom to prevent migration down channel.		
Number of personnel:	4-8	Width of inlet:	N/At
Current:	Moderate	Water depth at mouth:	N/A

Safety / Cautionary notes: Very shallow water near the shoreline, airboats may be needed. Numerous tree stumps are located on the San Jacinto River. During periods of heavy rainfall, the river current can be swift.

Site Specific Information

Site # 3-M TGLO Polygon # N/A

Quad Name HIGHLANDS

**Site information:**

Site Description: Battleship Texas (State Historic Park)

The Battleship Texas is in a cut off of the Houston Ship Channel.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 21**NOAA chart #**

11329

County:

Harris

Date last visited:

26 March 2001

Access:**Closest Boat Ramp:**

River Terrace Park

Distance:

10 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Baytown Airport, Baytown (HPY)

Closest Helicopter Landing:

Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom across entrance to prevent migration.

Number of personnel:

2-4

Width of inlet:

200 ft

Current:

Moderate

Water depth at mouth:

23 ft

Safety / Cautionary notes:

Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

Site Specific Information

Site # 3-N TGLO Polygon # N/A Quad Name Highlands

**Site information:**

Site Description: Entrance to San Jacinto River

This is where the San Jacinto River joins the Houston Ship Channel. The area is congested with vessel traffic.

Latitude: (b) (7)(F), (b) (3) Longitude: W (b) (7)(F), (b) (3) Map # 21
 NOAA chart # 11329 County: Harris
 Date last visited: 24 April 2001

Access:

Closest Boat Ramp: River Terrace Park
 Distance: 20 minutes
 Boat type recommended: Shallow, aluminum hull
 Closest Airport: Baytown Airport, Baytown (HPY)
 Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Place cascading diversion boom along the western bank to prevent product migration.
Number of personnel: 4-8 **Width of inlet:** 700 ft
Current: Moderate **Water depth at mouth:** 35 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

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Site Specific Information

Site # 3-O TGLO Polygon # N/A Quad Name HIGHLANDS

**Site information:**

Site Description: Entrance to Old River

This is where Old River joins the Houston Ship Channel. The area is congested with vessel traffic.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map # 21**
NOAA chart # 11329 **County:** Harris
Date last visited: 26 March 2001

Access:

Closest Boat Ramp: River Terrace Park
Distance: 5 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to prevent migration.
Number of personnel: 4-8 **Width of inlet:** 1500 ft
Current: Moderate **Water depth at mouth:** 17 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 3-P TGLO Polygon # N/A Quad Name HIGHLANDS

**Site information:**

Site Description: Entrance to Carpenter's Bayou

This is where Carpenter's Bayou joins the Houston Ship Channel. The area is congested with vessel traffic.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map #	21
NOAA chart #	11329	County:	Harris		
		Date last visited:	26 March 2001		

Access:

Closest Boat Ramp:	River Terrace Park
Distance:	15 minutes
Boat type recommended:	Shallow, aluminum hull
Closest Airport:	Baytown Airport, Baytown (HPY)
Closest Helicopter Landing:	Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

610 North to I-10 East to Sheldon Rd. exit. Right on Sheldon Rd. to Market. Left on Market and look for park entrance on right.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	N/A
Environmental:	N/A
Economic:	N/A

Booming strategy recommendations:

Recommendations:	Boom across entrance to prevent migration.		
Number of personnel:	2-4	Width of inlet:	650 ft
Current:	Slow	Water depth at mouth:	15 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

39. HITCHCOCK

Texas City

CHART(S): Nautical Chart (11324 & 11322)
Upper Coast Atlas Page 43

STAGING AREA: 1. Fat Boy's Bait & Boat Ramp (2) (b) (7)(F), (b) (3)

2. Teakwood Marina (1) (b) (7)(F), (b) (3)

3. T&T Marine (Staging Area)

ACCESS ROAD: 1.

DISCRIPTION:

39-A Entrance to Greens Bayou

NOTIFY:

Texas Parks & Wildlife Dept.
U.S. Fish & Wildlife Service(281) 461-4071 Houston
(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 39-A TGLO Polygon # N/A

Quad Name Hitchcock

**Site information:**

Site Description: Green's Lake and sample of what area looks like

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 43

NOAA chart # 11320, 11322

County: Galveston

Nearest ICW Marker: N/A

Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp

Distance: ___ minutes

Boat type recommended: Shallow draft or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 2850 ft**Current:** Slow **Water depth at mouth:** 5 ft**Safety / Cautionary notes:**

27. HOSKINS MOUND

Chocolate Bay, NW West Bay and GIWW

CHART(S): Nautical Chart (11322)
Upper Coast Atlas Page 47STAGING AREAS: Chocolate Bayou Bridge Boat Ramp (2)
[REDACTED] See Christmas Point for additional sites)(b) (7)(F), (b)
(3)ACCESS ROADS: FM 2004 south from Houston to Chocolate Bayou bridge, cross
bridge and take first road on the right, boat ramp located under bridge.**DESCRIPTION:**Chocolate Bay

- 27-A Boom to protect Spoil Islands at the entrance of Chocolate Bay
- 27-B Boom entrance to New Bayou (195' wide)
- 27-C Boom entrance to Humble Cut (162' wide)
- 27-D Boom entrance to Wharton Bayou (120' wide)
- 27-E Boom canal entrance at (b) (7)(F), (b) (3)
- 27-F Boom across channel at [REDACTED]
- 27-G Boom across channel near markers "39" & "40" (470' wide)
- 27-H Boom east side of Horseshoe Bend east of marker "39" (450' wide)
- 27-I Boom west side of Horseshoe Bend east of marker "39" (1,100 wide)
- 27-J Boom southwest entrance to Lost Bay (570' wide)
- 27-K Boom across channel near FM 2004 bridge (670' wide)

NOTIFY:

Brazoria National Wildlife Refuge Manager	(409) 849-7771
Texas Parks & Wildlife Dept.	(281) 461-4071 Houston
U.S. Fish & Wildlife Service	(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Seagrass beds along west Chocolate Bay should be avoided during response activities to prevent physical damage to vegetation.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

Site Specific Information

Site # 27-K TGLO Polygon # N/A

Quad Name Hoskin's Mound

**Site information:**

Site Description: FM 2004 Bridge

Latitude: (b) (7)(F), (b) (3)

NOAA chart # 11322

Nearest ICW Marker: N/A

Longitude: (b) (7)(F), (b) (3)

County: Brazoria

Date last visited: 05-10-01

Map# 47

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow draft or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: Habitat for shorebirds

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-6

Width of inlet: 1500 ft**Current:**

Slow

Water depth at mouth: 14 ft**Safety / Cautionary notes:**

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Site Specific Information**Site # 27-I TGLO Polygon # 11****Quad Name Hoskin's Mound****Site information:**

Site Description: West Side of Horseshoe Bend

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map# 47****NOAA chart #** 11322**County:** Brazoria**Nearest ICW Marker:** N/A**Date last visited:** 05-10-01**Access:****Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow draft or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: High

Environmental: Habitat for birds

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 2000 ft**Current:**

Slow

Water depth at mouth: 3 ft**Safety / Cautionary notes:**

Site Specific Information**Site # 27-G TGLO Polygon # 8****Quad Name Hoskin's Mound****Site information:**

Site Description: Christmas Bay Channel @ markers 39 & 40

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map# 47****NOAA chart #** 11322**County:** Brazoria**Nearest ICW Marker:** N/A**Date last visited:** 05-10-01**Access:****Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow draft or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: Low

Environmental: Habitat for fish, bivalves, shrimp, crabs

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 300 ft**Current:**

Slow

Water depth at mouth: 14 ft**Safety / Cautionary notes:**

Central Texas Coastal Geographic Response Plan
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Site Specific Information**Site # 27-H TGLO Polygon # 11****Quad Name Hoskin's Mound****Site information:**

Site Description: East Side of Horseshoe Bend

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 47

NOAA chart # 11322

County: Brazoria

Nearest ICW Marker: N/A

Date last visited: 05-10-01

Access:**Closest Boat Ramp:** Private ramp**Distance:** ____ minutes**Boat type recommended:** Shallow draft or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:****Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High

Environmental: Habitat for birds

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 1000 ft**Current:** Slow **Water depth at mouth:** 3 ft**Safety / Cautionary notes:**

Site Specific Information**Site # 27-C TGLO Polygon # 11****Quad Name Hoskin's Mound****Site information:**

Site Description: Humble Cut

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322Longitude: (b) (7)(F), (b) (3)
County: Brazoria

Map# 47

Nearest ICW Marker: N/A

Date last visited: 05-10-01

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow draft or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC	(800) 424-8802
TXGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: High

Environmental: Habitat for wading birds, fish

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 200 ft**Current:** Slow **Water depth at mouth:** 4 ft**Safety / Cautionary notes:** _____

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Site Specific Information**Site # 27-A TGLO Polygon # 10****Quad Name Hoskin's Mound****Site information:**

Site Description: Island in the mouth of Chocolate Bayou

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map# 47****NOAA chart #** 11322**County:** Brazoria**Nearest ICW Marker:** N/A**Date last visited:** 05-10-01**Access:****Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow draft or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:**Atlas Priority:** High**Environmental:** Habitat for fish, turtles, wading birds, gulls, terns, shrimp, crabs, bivalves**Economic:** N/A**Booming strategy recommendations:****Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: ft**Current:**

slow

Water depth at mouth: ft**Safety / Cautionary notes:**

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Site Specific Information**Site # 27-J TGLO Polygon # 10****Quad Name Hoskin's Mound****Site information:**

Site Description: Lost Bay

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322

Longitude: (b) (7)(F), (b) (3)
County: Brazoria

Map# 47**Nearest ICW Marker:** N/A**Date last visited:** 05-10-01**Access:****Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow draft or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:**Atlas Priority:** High**Environmental:** Habitat for wading birds, fish, gulls, terns, turtles, shrimp, bivalves, crabs**Economic:** N/A**Booming strategy recommendations:****Recommendations:** Boom to protect sensitive marshes.**Number of personnel:**

2-4

Width of inlet: 400 ft**Current:**

Slow

Water depth at mouth: 3 ft**Safety / Cautionary notes:**

Central Texas Coastal Geographic Response Plan
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Site Specific Information**Site # 27-B TGLO Polygon # 13****Quad Name Hoskin's Mound****Site information:**

Site Description: New Bayou

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322

Longitude: (b) (7)(F), (b) (3)
County:

Map# 47**Nearest ICW Marker:** N/A**Date last visited:** 05-10-01

Brazoria

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow draft or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium

Environmental: Habitat for wading birds, fish, crabs, shrimp

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 200 ft**Current:**

Slow

Water depth at mouth: 5 ft**Safety / Cautionary notes:**

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Site Specific Information

Site # 27- TGLO Polygon # 1 Quad Name Hoskin's Mound

**Site information:**

Site Description: Oyster Lake

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 47

NOAA chart # 11322

County: Brazoria

Nearest ICW Marker: N/A

Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp

Distance: ____ minutes

Boat type recommended: Shallow draft or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High

Environmental: Habitat for birds

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.

Number of personnel: 2-6 Width of inlet: 3000 ft

Current: Slow Water depth at mouth: 4 ft

Safety / Cautionary notes: _____

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Site Specific Information**Site # 27-D TGLO Polygon # 6****Quad Name Hoskin's Mound****Site information:**

Site Description: Wharton Bayou

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map# 47****NOAA chart #** 11322**County:** Brazoria**Nearest ICW Marker:** N/A**Date last visited:** 05-10-01**Access:****Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow draft or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High

Environmental: Habitat for wading birds, wetlands/uplands plants, fish, shrimp

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 120 ft**Current:** Slow **Water depth at mouth:** 4 ft**Safety / Cautionary notes:** _____

4. JACINTO CITY

Greens Bayou to Halls Bayou

CHART(S): Nautical Chart (None available)
Upper Coast Atlas page 22

STAGING AREAS: I-10 at Greens Bayou

ACCESS ROADS: I-10 under Bridge at Greens Bayou Note: no boat ramps available.

DESCRIPTION:

4-A Boom Greens Bayou close to spill site to prevent migration.

4-B Boom marsh area east bank south of R/R crossing (3,000 wide)

CAUTION:

During heavy rain fall currents can become dangerous. Watch out
For transients known to frequent area.

Site Specific Information

Site # 4-A TGLO Polygon # N/A

Quad Name JACINTO CITY

**Site information:**

Site Description: Upper Green's Bayou

Green's Bayou extends from the Houston Ship Channel inland for several miles into Northeast Houston. It is fairly deep, but narrow with mud and grass banks.

Latitude:

(b) (7)(F), (b) (7)(C)

Longitude:

(b) (7)(F), (b) (7)(C)

Map # 22**NOAA chart #**

N/A

County:

Harris

Date last visited:

17 April 2001

Access:**Closest Boat Ramp:**

No public ramps in area, however, private ramps due

exist at Facilities.

Distance:

30 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

William P. Hobby, Houston (HOU)

Closest Helicopter Landing:

H1274, Mr. McHazzlett

From MSO Houston-Galveston:

No ramps available. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom close to spill site to prevent migration.

Number of personnel:

2-4

Width of inlet:

200 ft

Current:

Moderate

Water depth at mouth:

20 ft

Safety / Cautionary notes:

During heavy rainfalls currents can become dangerous. Watch out for transients known to frequent area.

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Site Specific Information

Site # 4-B TGLO Polygon # N/A

Quad Name JACINTO CITY

**Site information:**

Site Description: Marsh in Green's Bayou

½ NM in from the mouth of Green's Bayou is a sensitive marsh area inside a sharp bend of the bayou.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 22**NOAA chart #**

N/A

County:

Harris

Date last visited:

24 April 2001

Access:**Closest Boat Ramp:**

No public ramps in area, however, private ramps due

exist at Facilities.

Distance:

30 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

William P. Hobby, Houston (HOU)

Closest Helicopter Landing:

H1274, Mr. McHazlett

From MSO Houston-Galveston:

No ramps available. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom with 2000' of boom to protect sensitive marsh.

Number of personnel:

2-4

Width of inlet:

200 ft

Current:

Moderate

Water depth mid-channel: 20 ft**Safety / Cautionary notes:**

During heavy rainfalls currents can become dangerous. Watch out for transients known to frequent area.

22. THE JETTIES

Gulf of Mexico and Bolivar Roads

CHART(S): Nautical Chart (11324)
Upper Coast Atlas Page 40

STAGING AREA: (See Galveston for site)

ACCESS ROAD: N/A

DISCRIPTION:Gulf of Mexico

22-A Boom to protect Bolivar Flats. Cascading diversion boom can work in calm sea conditions.

Bolivar Roads

22-B Boom entrance to The Lagoon (50' wide)

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

Houston Audubon Society

(713) 932-1392

CAUTION:

Access to Bolivar Flats in strictly controlled. Tide conditions must be monitored to prevent loss of equipment.

NATURAL COLLECTION AREA:

Big Reef and the S Jetty tends to collect debris.

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Site Specific Information

Site # 22-A

TGLO Polygon # N/A

Quad Name The Jetties

**Site information:**

Site Description: marsh located on the north side of the bodeller drive. North shore line marsh; south shore line rock and marsh. Lake is one mile long. South/north entrances open at high tide. (b) (7)(F), (b) (3)

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 40

NOAA chart #

11224

County:

Galveston

Nearest ICW Marker:

350

Date last visited:

4 April 2001

Access:

Closest Boat Ramp:

Galveston Yacht Basin

Distance:

10 minutes

Boat type recommended:

Air boat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Rosenberg to the Seawall Blvd. then make left on Seawall to Jetty.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Medium

Environmental:

Birds; reptiles; amphibians; fish; shell fish; marsh land

Economic:

Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations:

Boom to protect sensitive marshes.

Number of personnel:

4-6

Width of inlet:

_____ ft

Current:

High

Water depth at mouth:

_____ ft

Safety / Cautionary notes:

Site Specific Information**Site # 22-A-2 TGLO Polygon # 5 Quad Name The Jetties****Site information:**

Site Description: unnamed inlet at Old Fort San Jacinto

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map # 40****NOAA chart #** 11324**County:** Galveston**Nearest ICW Marker:** 350**Date last visited:** 3 April 2001**Access:****Closest Boat Ramp:**

Galveston Yacht Basin

Distance:

10 minutes

Boat type recommended:

V-hull

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport (b) (7)(F), (b) (3)

From MSU Galveston:

Same as new area

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Low

Environmental:

Birds; reptiles; amphibians; fish shell fish; marsh

Economic:

Along the Houston Ship Channel

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

4-6

Width of inlet:

_____ ft

Current:

High

Water depth at mouth:

_____ ft

Safety / Cautionary notes:

Site Specific Information

Site # 22-B TGLO Polygon # 3 Quad Name The Jetties

**Site information:**

Site Description: Galveston Island sand pit.

Latitude: (b) (7)(F), (b) (3)
 NOAA chart # 11324
 Nearest ICW Marker: 350

Longitude: (b) (7)(F), (b) (3) Map # 40
 County: Galveston
 Date last visited: 4 April 2001

Access:

Closest Boat Ramp: Galveston Yacht Basin
 Distance: 10 minutes
 Boat type recommended: Air boat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [Redacted]

From MSU Galveston:

Same as new area

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Low**
 Environmental: Birds; reptiles; amphibians; fish; shell fish
 Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: _____

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Site Specific Information

Site # 22-B-2 TGLO Polygon # N/A Quad Name The Jetties



Site information:

Site Description: the lagoon entrance soft wide with rock shoreline

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 40
NOAA chart # 11324 County: Galveston
Nearest ICW Marker: 350 Date last visited: 3 April 2001

Access:

Closest Boat Ramp: Galveston Yatch Basin
Distance: 10 minutes
Boat type recommended: V-hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
[REDACTED]

From MSU Galveston:

Same as new area

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

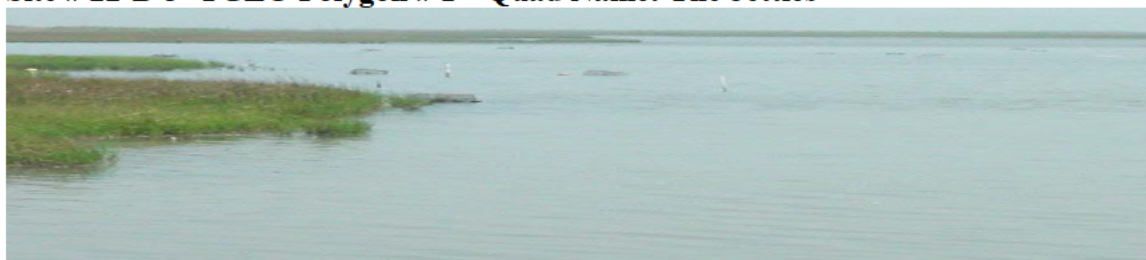
Resources at Risk:

Atlas Priority: N/A
Environmental: Birds; reptiles; amphibians; fish; shell fish
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 Width of inlet: 50 ft
Current: High Water depth at mouth: ____ ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 22-B-3 TGLO Polygon # 1 Quad Name: The Jetties****Site information:**

Site Description: marsh south of Route 87 (from Flake quad.)

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map #	40
NOAA chart #	11324	County:	Galveston		
Nearest ICW Marker:	350	Date last visited:	4 April 2001		

Access:

Closest Boat Ramp:	Erman Pilsner Boat Ramp
Distance:	10 minutes
Boat type recommended:	Air boat
Closest Airport:	Scholes Field Airport GLS
Closest Helicopter Landing:	Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:Take Ferry to Bolivar; exit State Hwy 87 and take a left on 7th Loop 108.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	High
Environmental:	Birds; reptiles; amphibians; fish; shell fish; marsh land
Economic:	Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations:	Boom to protect sensitive marshes.		
Number of personnel:	4-6	Width of inlet:	_____ ft
Current:	High	Water depth at mouth:	_____ ft

Safety / Cautionary notes:

31. JONES CREEK

Brazos River, GIWW and San Bernard River

CHART(S): Nautical Chart (11322)
Upper Coast Atlas Page 53

STAGING AREAS: New Brazos River boat ramp (2)

(b) (7)(F), (b) (3)

Note: Tends to silt in during flood

ACCESS ROADS: Hwy 36 to FM 242A, south to boat ramp south of Bryan Mound.

DESCRIPTION:Brazos River

31-A Seal off the GIWW by asking the U.S. Army Corps of Engineers to close the East and West floodgates.

GIWW

31-B Boom entrance to old channel (150' wide)

31-C Boom entrance to Jones Lake (2,250' wide)

San Bernard River

31-D Boom canal to Housing Development off CR 307 (80' wide)

31-E Boom entrance to Redfish Bayou (105' wide)

31-F Boom canal to Housing Area of CR 307 (126' wide)

31-G Boom Loop in the River south (360' wide) north (315' wide)

31-H Boom canal to Housing Area CR 469 (45' wide)

31-I Boom canal to Housing Area CR 868A (75' wide)

31-J Boom canal at (b) (7)(F), (b) (3)

31-K Boom cut E. bank at (b) (7)(F), (b) (3)

31-L Boom cut W. bank at

31-M Boom cut W. bank at

31-N Boom cut E. Bank at

31-O Protect Dido's Restaurant & Fuel CR 519

31-P Secondary Boat Ramp at Riverview Ranch Estates CR 661

31-Q Boom Phillips Climmins water intake (30'wide)

31-R Boom cut W. bank at (b) (7)(F), (b) (3)

31-S Boom cut W. bank at

NOTIFY:

East Floodgate operator	(409) 233-1251
West Floodgate operator	(409) 233-5161
Texas Parks & Wildlife Dept.	(281) 461-4071 Houston
U.S. Fish & Wildlife Service	(281) 286-8282 Houston

CAUTION:

Swift water conditions are present on the Brazos & San Bernard Rivers. Tide condition needs to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Watch for drifting logs on the rivers.

NATURAL COLLECTION AREA:

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A large amount of debris is almost always present on Matagorda Peninsula and Wolf Island.

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Site Specific Information**Site # 31-B****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Site Description: Boom entrance to old channel near Bryan Mound. Take Hwy 36 to FM 242a south to boat ramp then south of Bryan Mound.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322

Longitude: (b) (7)(F), (b) (3)
County: Brazoria

Map # 53**Nearest ICW Marker:** _____**Date last visited:** _____**Access:****Closest Boat Ramp:**

Bryan Mound boat ramp

Distance:

10 minutes

Boat type recommended:

any

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6**Width of inlet:** 150 ft**Current:** Slow**Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

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Site Specific Information**Site # 31-C****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Boom entrance to Jones Lake. Take 3005 from Galveston to CR 257, proceed on CR 257 to Bay Street CR 2575, and turn right to boat ramp.

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map # 53****NOAA chart #** 11322**County:** Brazoria**Nearest ICW Marker:** _____**Date last visited:** 4/17/00**Access:****Closest Boat Ramp:**

Swan lake boat ramp

Distance:

15 minutes

Boat type recommended:

Flat bottom, airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

The entrance is only accessible by boat.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:**

2-6

Width of inlet:

2,250 ft

Current:

Slow

Water depth at mouth:

N/A ft

Safety / Cautionary notes: _____

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Site Specific Information**Site # 31-D****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming canal to the housing development off the CR 307.

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map # 53****NOAA chart #** 11322**County:** Brazoria**Nearest ICW Marker:** _____**Date last visited:** 4/17/00**Access:****Closest Boat Ramp:****Distance:**

15 minutes

Boat type recommended:

Any

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6**Width of inlet:** 80 ft**Current:** Slow**Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

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Site Specific Information**Site # 31-E TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

The boat ramp to boom entrance Redfish Bayou. Take 3005 from Galveston to CR 257. Then proceed on CR 257 to Bay Street CR 2575; turn right to boat ramp.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322
Nearest ICW Marker: _____

Longitude: (b) (7)(F), (b) (3)
County: Brazoria
Date last visited: _____

Map # 53**Access:****Closest Boat Ramp:**

Jones creek boat ramp

Distance:

5 minutes

Boat type recommended:

any

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
TGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protective sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** 105 ft
Current: Slow **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

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Site Specific Information

Site # 31-F

TGLO Polygon # N/A

Quad Name Jones Creek



Site information:

Booming canal to housing development off CR 307.

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map # 53

NOAA chart # 11322

County: Brazoria

Nearest ICW Marker: _____

Date last visited: 4/17/00

Access:

Closest Boat Ramp:

Distance: 15 minutes

Boat type recommended: Any

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority:	N/A
Environmental:	N/A
Economic:	N/A

Booming strategy recommendations:

Recommendations: Boom to protective sensitive marshes.

Number of personnel:	2-6	Width of inlet:	126 ft
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Current:	Slow	Water depth at mouth:	N/A ft
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Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
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Site Specific Information**Site # 31-G****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming cut at the east bank Loop in the river.

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map # 53****NOAA chart #** 11322**County:** Brazoria**Nearest ICW Marker:** _____**Date last visited:** 4/17/00**Access:****Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 360 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-H****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming canal to housing area CR 469.

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322

Longitude: (b) (7)(F), (b) (3)
County: Brazoria

Map # 53**Nearest ICW Marker:** _____**Date last visited:** 4/17/00**Access:****Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
 TGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 45 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-I****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming canal CR 868-A

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 53**NOAA chart #** 11322**County:**

Brazoria

Nearest ICW Marker: _____**Date last visited:**

4/17/00

Access:**Closest Boat Ramp:****Distance:**

15 minutes

Boat type recommended:

Any

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6**Width of inlet:** 75 ft**Current:** Slow**Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-J****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming canal at (b) (7)(F), (b) (3)

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322

Longitude: (b) (7)(F), (b) (3)

Map # 53

Nearest ICW Marker: _____

County: Brazoria

Date last visited: 4/17/00

Access:**Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
TGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 60 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-K****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming cut at east bank at (b) (7)(F), (b) (3)

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322
Nearest ICW Marker: _____

Longitude: (b) (7)(F), (b) (3)
County: Brazoria
Date last visited: 4/17/00

Map # 53**Access:****Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

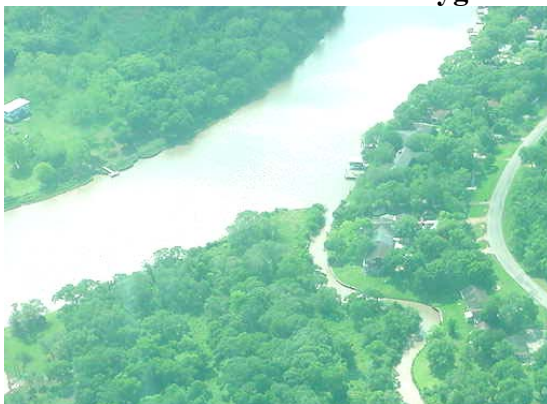
U.S.C.G. via NRC (800) 424-8802
 TGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 60 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-L****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming cut at the west bank (b) (7)(F), (b) (3)

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322

Longitude: (b) (7)(F), (b) (3)
County: Brazoria

Map # 53**Nearest ICW Marker:** _____**Date last visited:** 4/17/00**Access:****Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
 TGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 50 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-M****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming cut at the west bank (b) (7)(F), (b) (3)

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322

Longitude: (b) (7)(F), (b) (3)

Map # 53**Nearest ICW Marker:** _____**County:** Brazoria**Date last visited:** 4/17/00**Access:****Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 50 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Site Specific Information

Site # 31-N

TGLO Polygon # N/A

Quad Name Jones Creek

**Site information:**

Booming cut at the west bank (b) (7)(F), (b) (3)

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322Longitude: (b) (7)(F), (b) (3)
County: Brazoria

Map # 53

Nearest ICW Marker: _____

Date last visited: 4/17/00

Access:**Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 50 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 31-N

TGLO Polygon # N/A

Quad Name Jones Creek

**Site information:**

Booming cut at east bank at (b) (7)(F), (b) (3)

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map # 53

NOAA chart # 11322

County: Brazoria

Nearest ICW Marker: _____

Date last visited: 4/17/00

Access:**Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 50 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-O****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Site Description: under the bridge near Bryan Mound. Take Hwy 36 to FM 242a.

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map # 53****NOAA chart #** 11322**County:** Brazoria**Nearest ICW Marker:** _____**Date last visited:** _____**Access:****Closest Boat Ramp:**

Brazos River Boat Ramp

Distance:

15 minutes

Boat type recommended:

Any

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6**Width of inlet:** N/A ft**Current:**

Slow

Water depth at mouth:

N/A ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-R****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming cut at the west bank (b) (7)(F), (b) (3)

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322

Longitude: (b) (7)(F), (b) (3)
County: Brazoria

Map # 53**Nearest ICW Marker:** _____**Date last visited:** 4/17/00**Access:****Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
 TGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:**Atlas Priority:** N/A**Environmental:** Oil tank near boom cut**Economic:** N/A**Booming strategy recommendations:****Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6**Width of inlet:** 30 ft**Current:** Slow**Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 31-S****TGLO Polygon # N/A****Quad Name Jones Creek****Site information:**

Booming cut at the west bank (b) (7)(F), (b) (3)

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322
Nearest ICW Marker: _____

Longitude: (b) (7)(F), (b) (3)
County: Brazoria
Date last visited: 4/17/00

Map # 53**Access:****Closest Boat Ramp:****Distance:** 15 minutes**Boat type recommended:** Any**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Take Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
 TGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protective sensitive marshes.**Number of personnel:** 2-6 **Width of inlet:** 30 ft**Current:** Slow **Water depth at mouth:** N/A ft**Safety / Cautionary notes:** _____

25. LAKE COMO

Gulf of Mexico and West Bay

CHART(S): Nautical Chart (11322)
Upper Coast Atlas Page 45

STAGING AREAS: Jamaica Beach Boat Ramp (1)

ACCESS ROADS: 3005 from Galveston to Jamaica Beach, turn right on Bob Smith Rd, Proceed to Jolly Roger Rd, turn left and proceed to Basin Rd. turn left and proceed to boat ramp.

DESCRIPTION:

Gulf of Mexico

Beach washout may form in this area, booming may be required. Numerous Beach access areas are located in this area.

West Bay

26-A Boom to protect numerous coves, and sensitive marshes from Oxen Bayou west to Jumbile Cove.

NOTIFY:

Texas Parks & Wildlife Dept.
U.S. Fish & Wildlife Service(281) 461-4071 Houston
(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Seagrass beds along south West Bay should be avoided during response activities to prevent physical damage to vegetation.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

Site Specific Information**Site # 25-A TGLO Polygon # 1 Quad Name Lake Como****Site information:**

Site Description: Jumbile Cove at West Bay

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 45**
NOAA chart # 11322 **County:** Galveston
Nearest ICW Marker: 369 **Date last visited:** 4-05-01

Access:

Closest Boat Ramp: Pirates Cove Marina
Distance: ___ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

West on Hwy 87.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: Habitat for wading birds, gulls, terns, upland/wetland plants, fish, crabs
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** N/A ft
Current: Minimal **Water depth at mouth:** N/A ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 25-B TGLO Polygon # N/A

Quad Name Lake Como

**Site information:**

Site Description: Housing area southwest of Galveston Island State Park

Latitude: (b) (7)(F), (b) (3)
NOAA chart # 11322
Nearest ICW Marker: N/A

Longitude: (b) (7)(F), (b) (3) Map# 45
County: Galveston
Date last visited: 4-05-01

Access:**Closest Boat Ramp:**

Pirates Cove Marina

Distance:

___ minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

West on Hwy 87.

From MSU Galveston:

West on Hwy 87.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:

N/A ft

Current:

Minimal

Water depth at mouth:

N/A ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 25-C TGLO Polygon # 6 Quad Name Lake Como



Site information:

Site Description: Galveston Island State Park. Park is protected by geo tube

Latitude: N _____

NOAA chart # 11322

Nearest ICW Marker: 367

Longitude: W _____ Map# 45

County: Galveston

Date last visited: N/A

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

West on Hwy 87.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

Central Texas Coastal Geographic Response Plan
July 2001TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727**Resources at Risk:**

Atlas Priority:

HighEnvironmental: Habitat for gulls, terns, wading birds, waterfowl, shorebirds,
upland/wetland plants, shrimp, bivalves

Economic: Galveston Island State Park area

Booming strategy recommendations:**Recommendations:** Use geo tube that's in place in conjunction with deflective
hard boom**Number of personnel:**

4-6

Width of inlet:~ 2 miles**Current:**

Medium

Water depth at mouth: 6 ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 25-D TGLO Polygon #N/A Quad Name Lake Como

**Site information:**

Site Description: Mersel Bayou at West Bay

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 45
 NOAA chart # 11322 County: Galveston
 Nearest ICW Marker: N/A Date last visited: 4-05-01

Access:

Closest Boat Ramp: Pirate's Beach Marina
 Distance: ____ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

West on Hwy 87.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
 Number of personnel: 2-4 Width of inlet: 250 ft
 Current: Medium Water depth at mouth: 6 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 25-E TGLO Polygon # 10 Quad Name Lake Como

**Site information:**

Site Description: Oxen Bayou

North side coordinates

Latitude: (b) (7)(F), (b) (3)

South side coordinate

Latitude:

NOAA chart # 11322

Nearest ICW Marker: 365

Longitude: (b) (7)(F), (b) (3) ap# 45

Longitude:

County: Galveston

Date last visited: 4-05-01

Access:

Closest Boat Ramp: Pirate Beach Boat Ramp

Distance: ___ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

West on Hwy 87.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium

Environmental: Habitat for bivalves, shrimp

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.

Number of personnel: 2-4 **Width of inlet:** 1500 ft

Current: Medium **Water depth at mouth:** 4 ft

Safety / Cautionary notes: _____

14. LAKE STEPHENSON

NW East Bay and SE Trinity Bay

CHART(S): Nautical Chart (11326)
Upper Coast Atlas Page 32

STAGING AREAS: (See Smith Point for ramp information)

ACCESS ROADS: N/A

DESCRIPTION:East Bay

14-A East Bay is very environmentally sensitive; most of the shoreline is salt and brackish water marshes.

Trinity Bay

14-B Boom entrance to Lone Oak Bayou.

14-C Boom entrance to unnamed inlet 2NM south of Lone Oak Bayou.

14-D Boom to protect Frankland Point.

NOTIFY:

Moody National Wildlife Refuge Manager

(409) 267-3337

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. American Alligators have been sighted in this area.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted. Seagrass beds along Eastern shore of Trinity bay should be avoided during response activities to prevent physical damage to vegetation.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 14-A TGLO Polygon # 7/8 Quad Name Lake Stephenson



Site information:

Site Description: East Bay entrance to marsh at Wallis Lake

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 32
NOAA chart # 11326 County: Chambers
Nearest ICW Marker: N/A Date last visited: 25APR01

Access:

Closest Boat Ramp: James H. Robbins Memorial Park, Smith Point
Distance: 20 minutes
Boat type recommended: Airboat
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to Hwy 61. South on Hwy 61 and when it turns right towards Anahuac, continue straight on Hwy 562. Stay on Hwy 562 to Smith Point area. In the Smith Point area follow the "Boat ramp" signs and turn right on Hawkins Camp Rd. and left on Old Dutchman Rd. until it ends.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Wetlands, Bird habitat
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to cut to prevent migration inland. Cascade boom along shore line to prevent migration along shore.
Number of personnel: 4-8 Width of inlet: 50 ft
Current: Slow Water depth at mouth: 1 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond American Alligators have been sighted in this area.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 14-B TGLO Polygon # 11 Quad Name LAKE STEPHENSON

**Site information:**

Site Description: East Frankland Point

East Frankland Point is a cut from Trinity Bay above Smith Point.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map #	32
NOAA chart #	11326, 11331	County:	Chambers		
		Date last visited:	19 April 2001		

Access:

Closest Boat Ramp: James H. Robbins Memorial Park, Smith Point

Distance: 15 minutes

Boat type recommended: Shallow, aluminum hull

Closest Airport: Chambers County Airport (TOO)

Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to Hwy 61. South on Hwy 61 and when it turns right towards Anahuac, continue straight on Hwy 562. Stay on Hwy 562 to Smith Point area. In the Smith Point area follow the "Boat ramp" signs and turn right on Hawkins Camp Rd. and left on Old Dutchman Rd. until it ends.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: **High**

Environmental: Diamondback terrapin, Sand seatrout, Southern flounder, White shrimp, Grass shrimp, Smooth cordgrass,

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.

Number of personnel: 4-6 **Width of inlet:** 1500 ft

Current: Minimal **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required. Seagrass beds along eastern shore of Trinity Bay should be avoided during response activities to prevent physical damage to vegetation.

Site # 14-C TGLO Polygon # 2 Quad Name LAKE STEPHENSON**Site information:**

Site Description: Entrance to Gordy Marsh

The entrance to Gordy Marsh is a shallow cut with grassy banks. The banks are grassy.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 32
NOAA chart # 11326, 11331 **County:** Chambers
Date last visited: 19 April 2001

Access:

Closest Boat Ramp: James H. Robbins Memorial Park, Smith Point
Distance: 20 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to Hwy 61. South on Hwy 61 and when it turns right towards Anahuac, continue straight on Hwy 562. Stay on Hwy 562 to Smith Point area. In the Smith Point area follow the "Boat ramp" signs and turn right on Hawkins Camp Rd. and left on Old Dutchman Rd. until it ends.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
Environmental: Rails, Wading birds, Waterfowl, Gulf killifish, Sheepshead minnow, Brown shrimp, Grass shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to prevent migration into marsh.
Number of personnel: 2-4 **Width of inlet:** 50 ft
Current: Slow **Water depth at mouth:** 1 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required. Seagrass beds along eastern shore of Trinity Bay should be avoided during response activities to prevent physical damage to vegetation.

Central Texas Coastal Geographic Response Plan
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Site # 14-D TGLO Polygon # 3 Quad Name LAKE STEPHENSON



Site information:

Site Description: Entrance to Lone Oak Bayou

Lone Oak Bayou goes from Trinity Bay above Smith Point into the northern portion of Gordy Marsh.. The White Hero Road bridge supports at the entrance should help anchor containment boom.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 32
NOAA chart # 11326 **County:** Chambers
Date last visited: 19 April 2001

Access:

Closest Boat Ramp: James H. Robbins Memorial Park, Smith Point
Distance: 25 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to Hwy 61. South on Hwy 61 and when it turns right towards Anahuac, continue straight on Hwy 562. Stay on Hwy 562 to Smith Point area. In the Smith Point area follow the "Boat ramp" signs and turn right on Hawkins Camp Rd. and left on Old Dutchman Rd. until it ends.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: Rails, Wading birds, Waterfowl, Gulf killifish, Sheepshead minnow, Brown shrimp, Grass shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to prevent migration into marsh.
Number of personnel: 2-4 **Width of inlet:** 50 ft
Current: Slow **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required. Seagrass beds along eastern shore of Trinity Bay should be avoided during response activities to prevent physical damage to vegetation.

9. LA PORTE

NW Galveston Bay, HSC, Upper San Jacinto Bay and Buffalo Bayou

Chart(s): Nautical Chart (11326, 11328 and 11329)
Upper Coast Atlas Page 27STAGING AREAS: Sylvan Beach Boat Ramp (6)
(b) (7)(F), (b) (3) (See Morgan's Point for additional sites)ACCESS ROADS: Sylvan Beach Park: From Houston, east I-10 to Hwy 146 South.
Exit Hwy 146 at Fairmont Pkwy. East on Fairmont Pkwy to end. Right on Park Drive to
Park Entrance.

DESCRIPTION:

Galveston Bay

9-A Boom entrance to Little Cedar Bayou (200' wide)

Houston Ship Channel and Upper San Jacinto Bay

9-B Boom entrance to Black Duck Bay (120' wide)

9-C Boom entrance to Lower San Jacinto Bay (210' wide)

9-D Boom cove south of Brinson Pt (450' wide), Upper San Jacinto Bay

9-E Boom to protect Alexander Island

9-F Boom entrance to Houston Lighting & Power (810' wide)

9-G Boom entrance to Santa Anna Bayou (140' wide)

Buffalo Bayou

9-H Boom entrance to Tucker Bayou (270' wide)

9-I Boom small cove 200 yards east of Patrick Bayou (60' wide)

9-J Boom entrance to Patrick Bayou (360' wide)

CAUTION:

Very shallow water near Santa Anna Bayou. Crews operating along the shoreline of the
ship channel should expect wake action as vessels pass.

NATURAL COLLECTION AREAS:

Debris is a common occurrence on Spillmans Island and Alexander Island. Spills have
impacted Alexander Island east shore and tend to flow around the Island into Upper San
Jacinto Bay.

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 9-A TGLO Polygon # N/A Quad Name LAPORTE

**Site information:**

Site Description: Entrance to Little Cedar Bayou

Little Cedar Bayou extends from Upper Galveston Bay into Laporte., TX

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 27
NOAA chart # 11327 County: Harris
Date last visited: 16 March 2001

Access:

Closest Boat Ramp: Sylvan Beach Boat Ramp

Distance: 5 minutes

Boat type recommended: Shallow, aluminum hull

Closest Airport: Laporte Municipal Airport, Laporte (T41)

Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take I-610 south to Hwy 225. Take Hwy 225 east until it ends at Hwy 146. Take Hwy 146 south to the Fairmont Parkway. Turn left on Fairmont Parkway to it ends. Turn right on Bayshore Drive and the third driveway on the left is the boat ramp entrance.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 300 ft
Current: None **Water depth at mouth:** 1 ft

Safety / Cautionary notes:

Site Specific Information**Site # 9-B TGLO Polygon # 2 Quad Name LAPORTE****Site information:**

Site Description: Entrance to Black Duck Bay

The entrance to Black Duck Bay is under the Hwy 146 Bridge. Black Duck Bay is a back bay south of Baytown, TX.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 27
NOAA chart # 11326,11328 **County:** Harris
Date last visited: 22 March 2001

Access:

Closest Boat Ramp: H. "Buddy" McBride Boat Ramps at Goose Creek
Distance: 10 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Laporte Municipal Airport, Laporte (T41)
Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. At the first traffic light, turn right, and the ramps are immediately on your left.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **LOW**
Environmental: Spot, Grass shrimp, Blue crab.
Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom across the entrance to prevent migration into the bay.

Number of personnel: 2-4 **Width of inlet:** 120 ft
Current: Slow **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Shallow water at the entrance.

Site Specific Information

Site # 9-C TGLO Polygon # N/A

Quad Name LAPORTE

**Site information:**

Site Description: Entrance to Lower San Jacinto Bay

Lower San Jacinto Bay is a seldom used backwater south of the Hwy 146 ridge.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 27

NOAA chart #

11326, 11328

County:

Harris

Date last visited:

24 April 2001

Access:**Closest Boat Ramp:**

H. "Buddy" McBride Boat Ramps at Goose Creek

Distance:

10 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Laporte Municipal Airport, Laporte (T41)

Closest Helicopter Landing:

Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. At the first traffic light, turn right, and the ramps are immediately on your left.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom across entrance to prevent migration into the bay.

Number of personnel:

2-4

Width of inlet:

210 ft

Current:

Slow

Water depth at mouth:

2 ft

Safety / Cautionary notes:
at the entrance.

Shallow water and submerged pilings near the shore

Site Specific Information

Site # 9-D TGLO Polygon # 2 Quad Name LAPORTE

**Site information:**

Site Description: Upper San Jacinto Bay

Upper San Jacinto Bay is a shallow body of water on the back side of Alexander with northwest and southeast openings to the Houston Ship Channel.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 27
 NOAA chart # 11326,11328 County: Harris
 Date last visited: 22 March 2001

Access:

Closest Boat Ramp: H. "Buddy" McBride Boat Ramps at Goose Creek
Distance: 15 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Laporte Municipal Airport, Laporte (T41)
Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. At the first traffic light, turn right, and the ramps are immediately on your left.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **LOW**
 Environmental: Gulf menhaden, Red drum, Flounder, Blue crab, White shrimp.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom from Brinson Point to southern Alexander Island to prevent migration into the bay.
Number of personnel: 4-6 **Width of inlet:** 2000 ft
Current: Slow **Water depth at mouth:** 10 ft

Safety / Cautionary notes: The bay outside of the San Jacinto Bay Channel is shallow, airboats may be needed.

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Site Specific Information

Site # 9-E TGLO Polygon # 3 Quad Name LAPORTE

**Site information:**

Site Description: Northeast Alexander Island

The Northeast corner of Alexander Island is a turn in the Houston Ship Channel near Exxon Baytown. Alexander Island is very sensitive and one of the best rookeries in the area.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 27
NOAA chart # 11326,11328 **County:** Harris
Date last visited: 24 April 2001

Access:

Closest Boat Ramp: H. "Buddy" McBride Boat Ramps at Goose Creek
Distance: 20 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Laporte Municipal Airport, Laporte (T41)
Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. At the first traffic light, turn right, and the ramps are immediately on your left.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Cattle egret, Snowy egret, White ibis, Blue heron, Tricolor heron, Roseate spoonbill, Cormorant, Great egret.
Economic: N/A

Booming strategy recommendations:

Recommendations: Place cascading diversion boom to prevent migration.
Number of personnel: 4-8 **Width of inlet:** N/A
Current: Moderate **Water depth at mouth:** N/A

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

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Site Specific Information

Site # 9-F TGLO Polygon # N/A Quad Name LAPORTE

**Site information:**

Site Description: Entrance to Houston Lighting & Power

The entrance to HL&P is a cut off of the Houston Ship Channel in the vicinity of Peggy Lake. It is seldom used and shallow outside of the entrance channel.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map # 27**
NOAA chart # 11326,11329 **County:** Harris
Date last visited: 22 March 2001

Access:

Closest Boat Ramp: H. "Buddy" McBride Boat Ramps at Goose Creek
Distance: 25 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Laporte Municipal Airport, Laporte (T41)
Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. At the first traffic light, turn right, and the ramps are immediately on your left.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across the entrance to prevent migration.
Number of personnel: 2-4 **Width of inlet:** 810 ft
Current: Moderate **Water depth at mouth:** 15 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

Site Specific Information

Site # 9-G TGLO Polygon # 1 Quad Name LAPORTE

**Site information:**

Site Description: Entrance to Santa Anna Bayou

Santa Bayou extends from the Houston Ship Channel into San Jacinto Park.. The bayou is a sensitive bird nursery.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 27
 NOAA chart # 11329 County: Harris
 Date last visited: 12 April 2001

Access:

Closest Boat Ramp: River Terrace Park
Distance: 10 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Laporte Municipal Airport, Laporte (T41)
Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take I-10 east to Sheldon Road. Turn right on Sheldon Rd. to Market Street. Turn left on Market and River Terrace Park will be on your left after the next stoplight. The boat ramp is at the back right corner of the park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **MEDIUM**
 Environmental: Grass shrimp, Blue crab.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across the entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 2000 ft
Current: Slow **Water depth at mouth:** 0 ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 9-H TGLO Polygon # N/A

Quad Name LAPORTE

**Site information:**

Site Description: Entrance to Tucker Bayou

Tucker Bayou extends from the Houston Ship Channel into Deerpark, TX. The entrance is dominated by Intercontinental Terminals.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 27**NOAA chart #**

11329

County:

Harris

Date last visited:

12 April 2001

Access:**Closest Boat Ramp:**

River Terrace Park

Distance:

10 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Laporte Municipal Airport, Laporte (T41)

Closest Helicopter Landing:

Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take I-10 east to Sheldon Road. Turn right on Sheldon Rd. to Market Street. Turn left on Market and River Terrace Park will be on your left after the next stoplight. The boat ramp is at the back right corner of the park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom across the entrance to prevent migration inland.

Number of personnel:

2-4

Width of inlet:

300 ft

Current:

Slow

Water depth at mouth:

5 ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 9-I TGLO Polygon # N/A Quad Name LAPORTE



Site information:

Site Description: Entrance to cove east of Patrick Bayou

This cove extends from the Houston Ship Channel into Deerpark, TX

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 27
NOAA chart # 11329 County: Harris
Date last visited: 12 April 2001

Access:

Closest Boat Ramp: River Terrace Park

Distance: 15 minutes

Boat type recommended: Shallow, aluminum hull

Closest Airport: Laporte Municipal Airport, Laporte (T41)

Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take I-10 east to Sheldon Road. Turn right on Sheldon Rd. to Market Street. Turn left on Market and River Terrace Park will be on your left after the next stoplight. The boat ramp is at the back right corner of the park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across the entrance to prevent migration inland.
Number of personnel: 2-4 Width of inlet: 60 ft
Current: Slow Water depth at mouth: 1 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

Site Specific Information

Site # 9-J TGLO Polygon # N/A Quad Name LAPORTE

**Site information:**

Site Description: Entrance to Patrick Bayou

Tucker Bayou extends from the Houston Ship Channel into Deerpark, TX

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 27
 NOAA chart # 11329 County: Harris
 Date last visited: 12 April 2001

Access:

Closest Boat Ramp: River Terrace Park

Distance: 20 minutes

Boat type recommended: Shallow, aluminum hull

Closest Airport: Laporte Municipal Airport, Laporte (T41)

Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take I-10 east to Sheldon Road. Turn right on Sheldon Rd. to Market Street. Turn left on Market and River Terrace Park will be on your left after the next stoplight. The boat ramp is at the back right corner of the park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across the entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 270 ft
Current: Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

17. LEAGUE CITY

W Galveston Bay and Clear Lake

CHART(s): Nautical Chart (11326 & 11327)
Upper Coast Atlas Page 35STAGING AREA: Kemah/Seabrook Boat Ramps (2)
Located under 146 bridge Clear Lake Ch.

ACCESS ROAD: 146 south to Kemah bridge, follow signs to ramp locations

DESCRIPTION:W Galveston Bay

Note: 4+ knot currents can be expected at peak Ebb/Flood.

17-A Boom entrance to Clear Lake Channel by placing cascading diversion boom to prevent migration of product into Clear Lake.

17-B Boom north entrance to Clear Lake off Todville Rd (260' wide)

17-C Boom to protect Lower Armond Bayou

17-D Boom entrance to small creek at Bay Vista Subdivision (20' wide)

Bayport Ship Channel

17-E Boom spill site to prevent migration.

17-F Boom entrance to Boggy Bayou (100' wide)

17-G Boom north shore of Bayport Turning Basin

CAUTION:

Numerous submerged pilings have been noted along shoreline. Swift currents can be expected in Clear Lake Entrance Channel. Shallow water north of Clear Lake Entrance near shoreline.

NATURAL COLLECTION AREA:

Debris has been noted along the shoreline south of the Clear Lake Entrance Channel, also product tends to collect near the bulkheads and points. Product tends to linger near the entrance of Clear Lake Channel along any trash lines due to Ebb current flow.

Site Specific Information

Site # 17-A TGLO Polygon # N/A

Quad Name LEAGUE CITY

**Site information:**

Site Description: Galveston Bay entrance to Clear Lake Channel

Clear Lake Channel leads from Galveston Bay to environmentally sensitive Clear Lake.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 35

NOAA chart #

11326

County:

Harris

Date last visited:

5 April 2001

Access:**Closest Boat Ramp:**

Kemah/Seabrook Boat Ramps

Distance:

5 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Houston Gulf Airport, Kemah (SPX)

Closest Helicopter Landing:

Houston Gulf Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on I-610 to Hwy 225. East on Hwy 225 to Hwy 146. South on Hwy 146 to Seabrook, TX. There are ramps under the Kemah/Seabrook bridge on both the north and south sides.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

Black drum, Sheepshead, American oyster.

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Place cascading diversion boom to prevent migration into Clear Lake. Product tends to linger near the entrance along any trash lines due to Ebb current flow.

Number of personnel:

4-8

Width of inlet:

150 ft

Current:

Medium-High

Water depth at mouth:

16 ft

Safety / Cautionary notes:

4+ knot currents can be expected during peak Ebb/Flood. Numerous submerged pilings have been noted along shoreline. Shallow water north of the entrance near shoreline.

Site Specific Information**Site # 17-B TGLO Polygon # 1 Quad Name LEAGUE CITY****Site information:**

Site Description: Lakeside entrance to Clear Lake Channel

Clear Lake Channel leads from Galveston Bay to environmentally sensitive Clear Lake.

Latitude: (b) (7)(F), (b) (3) ” **Longitude:** (b) (7)(F), (b) (3) ” **Map #** 35
NOAA chart # 11326 **County:** Harris
Date last visited: 5 April 2001

Access:

Closest Boat Ramp: Kemah/Seabrook Boat Ramps
Distance: 10 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Houston Gulf Airport, Kemah (SPX)
Closest Helicopter Landing: Houston Gulf Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on I-610 to Hwy 225. East on Hwy 225 to Hwy 146. South on Hwy 146 to Seabrook, TX. There are ramps under the Kemah/Seabrook bridge on both the north and south sides.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **LOW**
Environmental: Several species of fish including Bay anchovy and Catfish, White shrimp, Brown shrimp, Blue crab.
Economic: N/A

Booming strategy recommendations:**Recommendations:** Place cascading diversion boom to prevent migration into Clear Lake.

Number of personnel: 4-8 **Width of inlet:** 600 ft
Current: Medium-High **Water depth at mouth:** 15 ft

Safety / Cautionary notes: 4+ knot currents can be expected during peak Ebb/Flood.

Site Specific Information**Site # 17-C TGLO Polygon # 6 Quad Name LEAGUE CITY****Site information:**

Site Description: Lower Armand Bayou

Armand Bayou is a Nature Park and is separated from Mud Lake at its southern end by a barrier of "No gasoline motors beyond this point" signs posted at approximate 300' apart.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 35
NOAA chart # 11326 **County:** Harris
Date last visited: 24 April 2001

Access:

Closest Boat Ramp: Clear Lake Park Ramps
Distance: 20 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Houston Gulf Airport, Kemah (SPX)
Closest Helicopter Landing: Houston Gulf Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on I-610 to Hwy 225. East on Hwy 225 to Hwy 146. South on Hwy 146 to NASA Road 1. Turn right on NASA Road 1, the ramps are on the left after a couple of miles.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **HIGH**
Environmental: Waterfowl, Osprey, Wood duck, Wading birds, Red drum.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across barrier to prevent migration from Mud Lake into Armand Bayou. Boom across NASA Rod 1 bridge (600') to prevent migration from Clear Lake into Mud Lake.

Number of personnel: 4-8 **Width of inlet:** 3000 ft
Current: Slow **Water depth at mouth:** 4 ft

Safety / Cautionary notes:

Site Specific Information**Site # 17-D TGLO Polygon # N/A****Quad Name LEAGUE CITY****Site information:**

Site Description: Entrance to Creek at Bay Vista Subdivision
The creek at Bay Vista leads from Galveston Bay into Laporte.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 35**NOAA chart #**

11326,11327

County:

Harris

Date last visited:

5 April 2001

Access:**Closest Boat Ramp:**

Kemah/Seabrook Boat Ramps

Distance:

25 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Houston Gulf Airport, Kemah (SPX)

Closest Helicopter Landing:

Houston Gulf Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

South on I-610 to Hwy 225. East on Hwy 225 to Hwy 146. South on Hwy 146 to Seabrook, TX. There are ramps under the Kemah/Seabrook bridge on both the north and south sides.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

Texas diamondback terrapin.

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom entrance to prevent migration inland.

Number of personnel:

2-4

Width of inlet:

20 ft

Current:

Slow

Water depth at mouth:

2.5 ft

Safety / Cautionary notes:

Numerous submerged pilings have been noted along shoreline. Shallow water north of the entrance near shoreline.

Site Specific Information

Site # 17-E TGLO Polygon # N/A

Quad Name LEAGUE CITY

**Site information:**

Site Description: Facilities at Bayport Turning Basin

Bayport Turning Basin has several petrochemical plants on it's western and southern shores.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 35**NOAA chart #**

11326,11327

County:

Harris

Date last visited:

16 March 2001

Access:**Closest Boat Ramp:**

Sylvan Beach Ramps, Laporte

Distance:

15 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Laporte Municipal Airport, Laporte (T41)

Closest Helicopter Landing:

Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take I-610 south to Hwy 225. Take Hwy 225 east until it ends at Hwy 146. Take Hwy 146 south to the Fairmont Parkway. Turn left on Fairmont Parkway to it ends. Turn right on Bayshore Drive and the third driveway on the left is the boat ramp entrance.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom near spill to prevent migration.

Number of personnel:

4-8

Width of inlet:

N/A

Current:

Slow

Water depth at mouth:

44 ft

Safety / Cautionary notes:

Site Specific Information

Site # 17-F TGLO Polygon # N/A Quad Name LEAGUE CITY

**Site information:**

Site Description: Entrance to Boggy Bayou
Boggy Bayou leads into the housing area of Shoreacres.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 35
NOAA chart # 11326,11327 **County:** Harris
Date last visited: 16 March 2001

Access:

Closest Boat Ramp: Sylvan Beach Ramps, Laporte
Distance: 15 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Laporte Municipal Airport, Laporte (T41)
Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take I-610 south to Hwy 225. Take Hwy 225 east until it ends at Hwy 146. Take Hwy 146 south to the Fairmont Parkway. Turn left on Fairmont Parkway to it ends. Turn right on Bayshore Drive and the third driveway on the left is the boat ramp entrance.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 30 ft
Current: Slow **Water depth at mouth:** 1 ft

Safety / Cautionary notes:

Site Specific Information

Site # 17-G TGLO Polygon # N/A Quad Name LEAGUE CITY

**Site information:**

Site Description: North Shore of Bayport Turning Basin

The north shore of the Bayport Turning basin and Entrance Channel was a steep mud bank, which is in the process getting a rock erosion prevention barricade.

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map # 35
 NOAA chart # 11326,11327 County: Harris
 Date last visited: 16 March 2001

Access:

Closest Boat Ramp: Sylvan Beach Ramps, Laporte

Distance: 15 minutes

Boat type recommended: Shallow, aluminum hull

Closest Airport: Laporte Municipal Airport, Laporte (T41)

Closest Helicopter Landing: Laporte Municipal Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Take I-610 south to Hwy 225. Take Hwy 225 east until it ends at Hwy 146. Take Hwy 146 south to the Fairmont Parkway. Turn left on Fairmont Parkway to it ends. Turn right on Bayshore Drive and the third driveway on the left is the boat ramp entrance.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Number of personnel: 2-4 Width of inlet: N/A
 Current: Slow Water depth at mouth: 44 ft

Safety / Cautionary notes:

38. MATAGORDA SW

Gulf of Mexico and Colorado River

CHART(S): Nautical Chart (11319)
Upper Coast Atlas Page 62STAGING AREAS: End of FM 2031 (beach access)
(See Matagorda for additional sites)ACCESS ROADS: Hwy 35 south to Bay City, turn left on Hwy60, proceed to
Matagorda, turn left on FM 2031, road ends on the beach.**DESCRIPTION:**Gulf of Mexico38-a Beach washout may form in this area, booming may be required. Beach access:
4X4 vehicles needed on Matagorda Peninsula. Note: Beach access may be slowed or
limited due to debris present and high tide conditions.**CAUTION:**Tide condition need to be monitored to prevent equipment loss, or being stranded due to
high tide conditions. Very shallow water near the shoreline, shallow draft boats, or airboats
may be required to respond.**NATURAL COLLECTION AREA:**

A large amount of debris is almost always present on Matagorda Peninsula.

Site Specific Information**Site # 38-A TGLO Polygon # N/A Quad Name Matagorda Southwest****Site information:**

Site Description: Matagorda SW may have a beach wash over area similar to this photo
 No Specific Lat. & Long – Width and Depth will vary

Latitude: N **Longitude:** W **Map# 62**
NOAA chart # 11319 **County:** Matagorda
Nearest ICW Marker: _____ **Date last visited:** 04-06-01

Access:

Closest Boat Ramp: Private ramp
Distance: _____ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** N/A ft
Current: High **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

37. MATAGORDA

Gulf of Mexico, East Matagorda Bay, Colorado River and GIWW.

CHART(S): Nautical Chart (11319)
Upper Coast Atlas Page 60

STAGING AREAS: Matagorda Harbor (4)

(b) (7)(F), (b) (3)

ACCESS ROADS: Hwy 35 south to Bay City, turn left on Hwy60, proceed to Matagorda Harbor, turn left.

DESCRIPTION:Gulf of Mexico

37-A Beach washout may form in this area, booming may be required. Beach access: 4X4 vehicles needed on Matagorda Peninsula.

East Matagorda Bay

37-B This Bay complex is extremely sensitive, it contains numerous marsh & wetlands, plus sheltered tidal flats. Every effort should be made to prevent any product from entering this area.

GIWW

37-C Boom cut to East Matagorda Bay at Mile 435.5 (200' wide)

Note: Swift water flow may require cascading diversion boom be placed to prevent entry into Bay.

37-D Boom entrance to Little Boggy Bayou (75' wide)

37-E Boom entrance to canal (housing area) at Mile 438.4 (60' wide)

37-F Boom entrance to Matagorda Harbor (90' wide)

Note: Small Response Trailer (Texas General Land Office) is staged at Matagorda Harbor, trailer contains 1000' of containment boom, assorted sorbents and boom anchoring equipment. Contact Harbormaster for access to trailer.

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

Colorado River Locks

(409) 863-7842

CAUTION:

Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

NATURAL COLLECTION AREA:

A large amount of debris is almost always present on Matagorda Peninsula.

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Site Specific Information

Site # 37-C TGLO Polygon # N/A Quad Name Matagorda

Picture # 31

Site information:

Site Description: entrance to East Matagorda

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 60
NOAA chart # 11319 County: Brazoria
Nearest ICW Marker: 435 Date last visited: _____

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow, Aluminum hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 80 yds
Current: Slow **Water depth at mouth:** 10 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Site Specific Information

Site # 37-D TGLO Polygon # N/A Quad Name Matagorda

Picture # 32

Site information:

Site Description: canal between Little Boggy Bayou and Houston Canal on north side

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 60
 NOAA chart # 11319 County: Galveston
 Nearest ICW Marker: _____ Date last visited: _____

Access:

Closest Boat Ramp: Dirt Boat Ramp
Distance: _____ minutes
Boat type recommended: Shallow, Aluminum hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 70 yds
Current: Slow **Water depth at mouth:** 4 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

Site Specific Information

Site # 37-E TGLO Polygon # N/A Quad Name Matagorda

Picture # 33

Site information:

Site Description: canal Housing Area

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 60

NOAA chart # 11319

County: Galveston

Nearest ICW Marker: _____

Date last visited: _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 29 yds**Current:** Slow **Water depth at mouth:** 7 ft**Safety / Cautionary notes:** Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

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Site # 37-F TGLO Polygon # N/A

Quad Name Matagorda

Picture # 34

Site information:

Site Description: Matagorda Harbor

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 60

NOAA chart # 11319

County: Galveston

Nearest ICW Marker: _____

Date last visited: _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 80 yds**Current:** Slow **Water depth at mouth:** 10 ft**Safety / Cautionary notes:** Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

8. MORGANS POINT

W Trinity Bay, NW Galveston Bay, HSC, Tabbs Bay and Goose Creek

CHART(S): Nautical Chart (11326, 11327 and 11338)
Upper Coast Atlas page 26STAGING AREA: 1. Crawley's Bait Camp (2)
2. Thompson's Fishing Camp(1)
3. Baytown Boat Ramp (3)
4. Morgan's point boat ramp (1)

(b) (7)(F), (b) (3)

ACCESS ROAD: 1. Crawley Marina (Old location): East on Hwy 225 from Houston to Hwy 146. Turn left on Hwy 146 and proceed north to Hwy 55. Turn right onto Hwy 55 and proceed east on Hwy 55 to FM 1405. Turn right on FM 1405 and proceed south to FM 2354. Turn right on FM 2354 and proceed boat ramp.

2. East on Hwy 225 from Houston to Hwy 146. Turn left on Hwy 146 and proceed north to Hwy 55. Turn right onto Hwy 55 and proceed east on Hwy 55 to Tri-City Beach Rd. Turn right and proceed to boat ramp.

3. East on Hwy 225 from Houston to Hwy 146. Turn left of Hwy 146 and proceed north to boat ramp located at first right after crossing Fred Hartman Bridge.

4. Hwy 146 south to Barbours Cut Blvd. Turn left proceeds to Vinsonia Ave. Turn right proceed to Ballister Rd. Turn left to boat ramp at end of road.

DESCRIPTION:Trinity Bay

8-A Boom to protect Houston Point (Cedar Point) marsh area

8-B Boom to protect Mesquite Knoll Island.

8-C Boom to protect Swan Marsh west of Houston Point

Cedar Bayou

8-D Boom Bayou close to spill site area.

8-E Boom to protect Marrow Marsh east of Cedar Bayou entrance

8-F Boom entrance to Cedar Bayou (550' wide)

8-G Boom entrance to Cedar Bayou west of Boaz Island (150'wide)

8-H Boom to protect Boaz Island

8-I Boom to protect Cedar Bayou west of Harbor View Rd. (510' wide)

Galveston Bay

8-J Boom to protect Atkinson Island &(WMA)

8-K Boom cut between Atkinson Island near marker"82" (1,800' wide)

Houston Ship Channel

8-L Boom cut between Hog and Atkinson Island (1,150' wide)

8-M Boom to protect Hog Island

8-N Boom entrance to Barbours Cut (800' wide)

8-O Boom entrances to Bayland Park Marina (850' wide)

Goose Creek

8-P Boom Bayou close to spill site area.

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- 8-Q Boom entrance to Goose Creek at Hwy 146 (516' wide)
- 8-R Boom across Goose Creek at Main Street (546' wide)
- 8-S Boom across Goose Creek at 1st.R/R Bridge north of Main (595' wide)
- 8-T Boom across Goose Creek at R/R Bridge south of Market (486' wide)
- 8-U Boom across Goose Creek at Market Street (192' wide)
- 8-V Boom across Goose Creek at W. Texas Ave. (153' wide)
- 8-W Boom across Goose Creek at Hwy 330 (145' wide)
- 8-X Boom across Goose Creek at Park Street (210' wide)
- 8-Y Boom across Goose Creek at Hwy 146 (60' wide)

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline of Trinity Bay, Atkinson and Hog Island's east shores. Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

NATURAL COLLECTION AREA:

The southeast corner of Morgan's Point tends to be impacted during spill events. Also, product accumulates around the cuts of Atkinson Island.

8. MORGANS POINT

W Trinity Bay, NW Galveston Bay, HSC, Tabbs Bay and Goose Creek

CHART(S): Nautical Chart (11326, 11327 and 11338)
Upper Coast Atlas page 26STAGING AREA: 1. Crawley's Bait Camp (2)
2. Thompson's Fishing Camp(1)
3. Baytown Boat Ramp (3)
4. Morgan's point boat ramp (1)

(b) (7)(F), (b) (3)

ACCESS ROAD: 1. Crawley Marina (Old location): East on Hwy 225 from Houston to Hwy 146. Turn left on Hwy 146 and proceed north to Hwy 55. Turn right onto Hwy 55 and proceed east on Hwy 55 to FM 1405. Turn right on FM 1405 and proceed south to FM 2354. Turn right on FM 2354 and proceed boat ramp.

2. East on Hwy 225 from Houston to Hwy 146. Turn left on Hwy 146 and proceed north to Hwy 55. Turn right onto Hwy 55 and proceed east on Hwy 55 to Tri-City Beach Rd. Turn right and proceed to boat ramp.

3. East on Hwy 225 from Houston to Hwy 146. Turn left of Hwy 146 and proceed north to boat ramp located at first right after crossing Fred Hartman Bridge.

4. Hwy 146 south to Barbours Cut Blvd. Turn left proceeds to Vinsonia Ave. Turn right proceed to Ballister Rd. Turn left to boat ramp at end of road.

DESCRIPTION:Trinity Bay

8-A Boom to protect Houston Point (Cedar Point) marsh area

8-B Boom to protect Mesquite Knoll Island.

8-C Boom to protect Swan Marsh west of Houston Point

Cedar Bayou

8-D Boom Bayou close to spill site area.

8-E Boom to protect Marrow Marsh east of Cedar Bayou entrance

8-F Boom entrance to Cedar Bayou (550' wide)

8-G Boom entrance to Cedar Bayou west of Boaz Island (150'wide)

8-H Boom to protect Boaz Island

8-I Boom to protect Cedar Bayou west of Harbor View Rd. (510' wide)

Galveston Bay

8-J Boom to protect Atkinson Island &(WMA)

8-K Boom cut between Atkinson Island near marker"82" (1,800' wide)

Houston Ship Channel

8-L Boom cut between Hog and Atkinson Island (1,150' wide)

8-M Boom to protect Hog Island

8-N Boom entrance to Barbours Cut (800' wide)

8-O Boom entrances to Bayland Park Marina (850' wide)

Goose Creek

8-P Boom Bayou close to spill site area.

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- 8-Q Boom entrance to Goose Creek at Hwy 146 (516' wide)
- 8-R Boom across Goose Creek at Main Street (546' wide)
- 8-S Boom across Goose Creek at 1st.R/R Bridge north of Main (595' wide)
- 8-T Boom across Goose Creek at R/R Bridge south of Market (486' wide)
- 8-U Boom across Goose Creek at Market Street (192' wide)
- 8-V Boom across Goose Creek at W. Texas Ave. (153' wide)
- 8-W Boom across Goose Creek at Hwy 330 (145' wide)
- 8-X Boom across Goose Creek at Park Street (210' wide)
- 8-Y Boom across Goose Creek at Hwy 146 (60' wide)

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline of Trinity Bay, Atkinson and Hog Island's east shores. Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

NATURAL COLLECTION AREA:

The southeast corner of Morgan's Point tends to be impacted during spill events. Also, product accumulates around the cuts of Atkinson Island.

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Site Specific Information

Site # 8-G TGLO Polygon # 11 Quad Name - Morgan's Point



Site information:

Site Description: Entrance to Cedar Bayou W. of Boaz Island

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 26
NOAA chart # 11326, 11327, 11338 County: Harris
Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Shallow hull type

Closest Airport: Ellington Field Airport EFD

Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Low**

Environmental: Nursery area

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect Boaz Island..

Number of personnel: 4-6 Width of inlet: 150 ft

Current: Slow Water depth at mouth: 6 ft

Safety / Cautionary notes: _____

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Site Specific Information

Site # 8-A TGLO Polygon # 14 Quad Name Morgan's Point



Site information:

Site Description: Houston Point Marsh area

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 26
 NOAA chart # 11326, 11327, 11338 County: Chambers
 Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp:

Distance: _____ minutes

Boat type recommended: Small boat with draft of less than 2 feet.

Closest Airport: Ellington Field Airport EFD

Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

North on Hwy 610, exit east on I-10, exit south on FM 1405.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **High**
 Environmental: Habitat for fish
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 8-C TGLO Polygon # 14 Quad Name – Morgan's Point****Site information:**

Site Description: Swan Marsh West of Houston Point

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Chambers
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:**Closest Boat Ramp:****Distance:** _____ minutes**Boat type recommended:** Small boat with draft of less than 2 feet.**Closest Airport:** Ellington Field Airport EFD**Closest Helicopter Landing:** Ellington Field Airport, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

North on Hwy 610, exit east on I-10, exit south on FM 1405.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** N/A ft
Current: Slow **Water depth at mouth:** N/A ft

Safety / Cautionary notes:

Site Specific Information**Site # 8-E TGLO Polygon # 14 Quad Name – Morgan's Point****Site information:**

Site Description: Marrow Marsh

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Chambers
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:**Closest Boat Ramp:****Distance:** _____ minutes**Boat type recommended:** Small boat with draft of less than 2 feet.**Closest Airport:** Ellington Field Airport EFD**Closest Helicopter Landing:** Ellington Field Airport, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

North on Hwy 610, exit east on I-10, exit south on FM 1405.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **High**
Environmental: Habitat for fish
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes:

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July 2001

Site Specific Information

Site # 8-H TGLO Polygon # 15 Quad Name – Morgan's Point



Site information:

Site Description: Boaz Island

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 26
 NOAA chart # 11326, 11327, 11338 County: Harris
 Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Small boat with draft of less than 2 feet.

Closest Airport: Ellington Field Airport EFD

Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

North on Hwy 610, exit east on I-10, exit south on FM 1405.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
 Environmental: Nursery and rookery
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect Boaz Island
 Number of personnel: 4-6 Width of inlet: N/A ft
 Current: Slow Water depth at mouth: 2 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-H-2

TGLO Polygon # 15

Quad Name – Morgan's Point

**Site information:**

Site Description: Entrance to Cedar Bayou East of Boaz Island

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map# 26

NOAA chart #

11326, 11327, 11338

County:

Harris

Nearest ICW Marker:

N/A

Date last visited:

04-05-01

Access:

Closest Boat Ramp:

Distance:

_____ minutes

Boat type recommended:

Small boat with draft of less than 2 feet.

Closest Airport:

Ellington Field Airport EFD

Closest Helicopter Landing:

Ellington Field Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

North on Hwy 610, exit east on I-10, exit south on FM 1405.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Low

Environmental:

Nursery and rookery

Economic:

N/A

Booming strategy recommendations:

Recommendations:

Boom to protect Boaz Island

Number of personnel:

4-6

Width of inlet:

550 ft

Current:

Slow

Water depth at mouth:

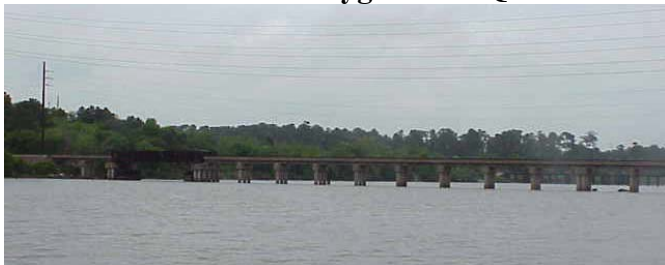
16 ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-J TGLO Polygon # 1 Quad Name - Morgan's Point

**Site information:**

Site Description: Goose Creek @ 1st Railroad Bridge

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Bayland Park
Distance: 15 minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

North on Hwy 610, exit east on I-10, exit south on FM 146.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: N/A
Economic: Railroad bridge crossing Goose Creek

Booming strategy recommendations:

Recommendations: Boom across Goose Creek at 1st R/R bridge north of Main Street.

Number of personnel: 4-6 **Width of inlet:** 600 ft
Current: Slow **Water depth at mouth:** 8 ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 8-I TGLO Polygon # 11 Quad Name - Morgan's Point****Site information:**

Site Description: Cedar Bayou west of Harbor View Road

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Small boat with draft of less than 2 feet.**Closest Airport:** Ellington Field Airport EFD**Closest Helicopter Landing:** Ellington Field Airport, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

North on Hwy 610, exit east on I-10, exit south on FM 146.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
 Environmental: Nursery area
 Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect Cedar Bayou west of Harbor View Road.**Number of personnel:** 4-6 **Width of inlet:** 500 ft**Current:** Slow **Water depth at mouth:** 8 ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-J TGLO Polygon # 5 Quad Name - Morgan's Point

Site information:

Site Description: Wildlife Management Area of Atkinson

Latitude: (b) (7)(F), (b) (7)(G) **Longitude:** (b) (7)(F), (b) (7)(G) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** _____

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Small boat with draft of less than 2 feet.

Closest Airport: Ellington Field Airport EFD

Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3) (C)

From MSO Houston-Galveston:

North on Hwy 610, exit east on I-10, exit south on FM 146.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TXGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Habitat for diving birds, upland/wetland plants
Economic: Along the Houston Ship Channel.

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-K TGLO Polygon # 6 Quad Name Morgan's Point

**Site information:**

Site Description: Cut between Atkinson Island near Marker 82

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Houston
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Barbors cut
Distance: 5 minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Access by boat.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for fish
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-K-2 TGLO Polygon # 6 Quad Name – Morgan's Point

**Site information:**

Site Description: Atkinson Island North of marker 82

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Sylvan Beach
Distance: 5 minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Access by boat.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for fish
Economic: Along the Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-L TGLO Polygon # 4 Quad Name - Morgan's Point

**Site information:**

Site Description: Cut between Hog Island & Atkinson Island

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Sylvan Beach
Distance: 10 minutes
Boat type recommended: Any
Closest Airport: William P Hobby Airport HOU
Closest Helicopter Landing: William P Hobby Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Access by boat.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Habitat for diving birds
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom cut between Hog Island and Atkinson Island.
Number of personnel: 4-8 **Width of inlet:** 1150 ft
Current: Medium **Water depth at mouth:** 14 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-M TGLO Polygon # 2 Quad Name - Morgan's Point

**Site information:**

Site Description: South end of Hog Island

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Barbor Cut
Distance: 5 minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: N/A
Economic: Along the Houston Ship Channel.

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-O TGLO Polygon # N/A Quad Name – Morgan's Point

Site information:

Site Description: Bayland Park Marina

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 26
 NOAA chart # 11326, 11327, 11338 County: Harris
 Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: Bayland Park
 Distance: ____ minutes
 Boat type recommended: Small boat with draft of less than 2 feet.
 Closest Airport: Ellington Field Airport EFD
 Closest Helicopter Landing: Ellington Field Airport (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** 1300 ft
Current: _____ **Water depth at mouth:** 8 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-Q TGLO Polygon # 16 Quad Name - Morgan's Point



Site information:

Site Description: Business 146 @ Goose Creek

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 26
NOAA chart # 11326, 11327, 11338 County: Harris
Nearest ICW Marker: N/A Date last visited: 04-03-01

Access:

Closest Boat Ramp: Bayland Park
Distance: ___ minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
[REDACTED]

From MSO Houston-Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for fish, shrimp, crabs
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom entrance to goose creek at Hwy 146, Boom across Goose Creek at Main Street, Boom across Goose Creek at 1st R/R bridge north of Main Street, Boom across Goose Creek at R/R bridge south of Market street

Number of personnel: 4-6 Width of inlet: 500 ft
Current: Slow Water depth at mouth: 8 ft

Safety / Cautionary notes: Crews operating along the shoreline of the Houston Ship Channel should expect wake action as vessels pass.

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-R TGLO Polygon # 1 Quad Name – Morgan's Point

**Site information:**

Site Description: Goose Creek @ Main Street

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Bayland Park
Distance: 15 minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

North on Hwy 610, exit east onto I-10, exit onto Market Street.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across Goose Creek at main Street.
Number of personnel: 4-6 **Width of inlet:** 550 ft
Current: Slow **Water depth at mouth:** 6 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-T TGLO Polygon # 1 Quad Name Morgan's Point

**Site information:**

Site Description: Goose Creek @ Railroad Bridge South of Market Street

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Bayland Park
Distance: 10-15 minutes
Boat type recommended: Any
Closest Airport: William P Hobby Airport HOU
Closest Helicopter Landing: William P Hobby Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

North on Hwy 610, exit east onto I-10, exit onto Market Street.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

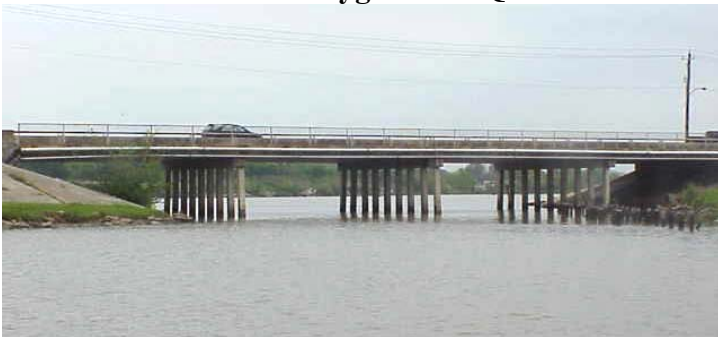
Atlas Priority: Medium
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across Goose Creek at R/R bridge south of Market Street.

Number of personnel: 4-6 **Width of inlet:** 500 ft
Current: Slow **Water depth at mouth:** 8 ft

Safety / Cautionary notes: Obstructions under water

Site Specific Information**Site # 8-U TGLO Polygon # 1 Quad Name - Morgan's Point****Site information:**

Site Description: Goose Creek @ Market Street

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Bayland Park
Distance: 10-15 minutes
Boat type recommended: Any
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
 [Redacted]

From MSO Houston-Galveston:

North on Hwy 610, exit east onto I-10, exit onto Market Street.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across Goose Creek at Market Street.
Number of personnel: 2-6 **Width of inlet:** 200 ft
Current: Slow **Water depth at mouth:** 10 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-V TGLO Polygon # 1 Quad Name - Morgan's Point



Site information:

Site Description:

Goose Creek @ West Texas Avenue

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 26
 NOAA chart # 11326, 11327, 11338 County: Harris
 Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: _____

Distance: _____ minutes

Boat type recommended: Small boat with draft of less than 2 feet.

Closest Airport: Ellington Field Airport EFD

Closest Helicopter Landing: Ellington Field Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

North on Hwy 610, exit east onto I-10, exit onto Market Street.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium

Environmental: N/A

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across Goose Creek at West Texas Ave.
Number of personnel: 4-6 **Width of inlet:** 150 ft
Current: Slow **Water depth at mouth:** 7 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-W TGLO Polygon # 16 Quad Name – Morgan's Point

Site information:

Site Description: Goose Creek @ Highway 330

Latitude: (b) (7)(F), (b) (7)(F) **Longitude:** (b) (7)(F), (b) (7)(F) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Bayland Park
Distance: ____ minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

North on Hwy 610, exit east onto I-10, exit onto Market Street.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for fish, shrimp
Economic: Along Houston Ship Channel

Booming strategy recommendations:

Recommendations: Boom across Goose Creek at Hwy 330.
Number of personnel: 2-4 **Width of inlet:** 60 ft
Current: Slow **Water depth at mouth:** 6 ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 8-X TGLO Polygon # 1 Quad Name Morgan's Point****Site information:**

Site Description: Goose Creek @ Park Street

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 26**
NOAA chart # 11326, 11327, 11338 **County:** Harris
Nearest ICW Marker: N/A **Date last visited:** 04-05-01

Access:

Closest Boat Ramp: Bayland Park Marina
Distance: 10-15 minutes
Boat type recommended: Any
Closest Airport: William P Hobby Airport HOU
Closest Helicopter Landing: William P Hobby Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

North on Hwy 610, exit east onto I-10, exit onto Market Street.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across Goose Creek at Park Street.
Number of personnel: 4-6 **Width of inlet:** 200 ft
Current: Slow **Water depth at mouth:** 6 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 8-Y TGLO Polygon # 16 Quad Name Morgan's Point



Site information:

Site Description: Goose Creek @ Hwy 146

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 26
NOAA chart # 11326, 11327, 11338 County: Harris
Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: Bayland Park
Distance: ___ minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
[REDACTED]

From MSO Houston-Galveston:

North on Hwy 610, exit east onto I-10, exit onto Market Street.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for fish, shrimp
Economic: Along Houston Ship Channel.

Booming strategy recommendations:

Recommendations: Boom across Goose Creek at Hwy 146.
Number of personnel: 2-4 Width of inlet: 60 ft
Current: Slow Water depth at mouth: 4 ft

Safety / Cautionary notes: _____

Site Specific Information

Site # 8- TGLO Polygon # N/A Quad Name - Morgan's Point

**Site information:**

Site Description: Bayland / Baytown Marina Boat Ramp

Latitude: (b) (7)(F), (b) (2) Longitude: (b) (7)(F), (b) (2) Map# 26
 NOAA chart # 11326, 11327, 11338 County: Harris
 Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: Bayland Park
 Distance: ____ minutes
 Boat type recommended: Small boat with draft of less than 2 feet.
 Closest Airport: Ellington Field Airport EFD
 Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
 Number of personnel: 4-6 Width of inlet: 600 ft
 Current: _____ Water depth at mouth: 8 ft

Safety / Cautionary notes: _____

Site Specific Information

Site # 8- TGLO Polygon # N/A

Quad Name - Morgan's Point

**Site information:**

Site Description: Example of Marsh in area

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 26
 NOAA chart # 11326, 11327, 11338 County: Harris
 Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: Bayland Park Boat Ramp
 Distance: _____ minutes
 Boat type recommended: Small boat with draft of less than 2 feet.
 Closest Airport: Ellington Field Airport EFD
 Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
 Number of personnel: 4-6 Width of inlet: 150 ft
 Current: _____ Water depth at mouth: 1 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 8- TGLO Polygon # N/A Quad Name – Morgan's Point

**Site information:**

Site Description: Barbour's Cut Drainage area example

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 26
NOAA chart # 11326, 11327, 11338 County: Harris
Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: Sylvan Beach
Distance: 3 minutes
Boat type recommended: Small boat with draft of less than 2 feet.
Closest Airport: Ellington Field Airport EFD
Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
[REDACTED]

From MSO Houston-Galveston:

South on Hwy 610, exit east onto Hwy 224, exit south onto Hwy 146, turn left onto Terminal Road.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: Along the Houston Ship Channel.

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 Width of inlet: 45 ft
Current: Medium Water depth at mouth: 3 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
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Site Specific Information

Site # 8- TGLO Polygon # N/A Quad Name - Morgan's Point

**Site information:**

Site Description: Barbour's Cut entrance

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 26
 NOAA chart # 11326, 11327, 11338 County: Harris
 Nearest ICW Marker: N/A Date last visited: 04-05-01

Access:

Closest Boat Ramp: Sylvan Beach
 Distance: 3 minutes
 Boat type recommended: Small boat with draft of less than 2 feet.
 Closest Airport: Ellington Field Airport EFD
 Closest Helicopter Landing: Ellington Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSO Houston-Galveston:

South on Hwy 610, exit east onto Hwy 225, exit south on to Hwy 166, turn left onto Terminal Road.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: Along the Houston Ship Channel.

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
 Number of personnel: 4-6 Width of inlet: 45 ft
 Current: Medium Water depth at mouth: 3 ft

Safety / Cautionary notes: _____

6. OAK ISLAND

E Trinity Bay (White Heron Ranch Estates to Anahuac Channel)

CHART(S): Nautical Chart (11326)
Upper Coast Atlas page 24

STAGING AREA: Oak Island public boat ramp (2)
(b) (7)(F), (b) (3) (See Anahuac for additional site)

ACCESS ROADS: Oak Island: East on I-10 from Houston to Hwy 61. Turn right on Hwy 61 and proceed south to junction of Hwy 61 and FM 562. Hwy 61 branches west to Anahuac and FM 562 continues South, follow FM- 562 south to Eagle Road. Turn right onto Eagle Road. Proceed west on Eagle Road, cross the West Fork of Double Bayou, and Eagle Road comes to a "T" intersection. Turn left and follow the road to the Oak Island

DESCRIPTION:

- 6-A Boom entrance to White Heron Ranch Estates (100' wide)
- 6-B Boom Levee at Gau Road
- 6-C Boom to protect Island in front of Double Bayou
- 6-D Boom entrance to Double Bayou (700'wide)
- 6-E Boom entrance to cut above West Eagle Road
- 6-F Boom to protect seagrass beds at cut below Black Point
- 6-G Boom to protect Barrier Island near entrance of Trinity River.
- 6-H Boom to protect seagrass beds between Trinity River Channel and Anahuac Channel
- 6-I Boom to protect barrier islands along Anahuac Channel

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Seagrass beds along Eastern shore of Trinity bay should be avoided during response activities to prevent physical damage to vegetation.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

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Site Specific Information

Site # 6-A TGLO Polygon # 2 Quad Name OAK ISLAND

**Site information:**

Site Description: Entrance to White Heron Ranch Estates

This cut leads inland to the White Heron Ranch Estates subdivision. It may have been dredged at one time, but now the entrance is very shallow.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 14 March 2001

Access:

Closest Boat Ramp: Oak Island Public boat ramp
Distance: 20 minutes
Boat type recommended: Shallow, aluminum hull.
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to the Hwy 563 exit. Turn right and remain on Hwy 563 south past Anahuac until it ends in Oak Island. In Oak Island turn left at the stop sign at West Bayshore Drive and follow it until it ends at the boat ramp.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **SAV**
 Environmental: Spotted seatrout, Southern flounder, Sand seatrout, Atlantic croaker, Stripped mullet, Red drum, Spot, Blue crab, Brown shrimp, Grass shrimp.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across the entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 100 ft
Current: Slow **Water depth at mouth:** 1 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds along the eastern shore of Trinity Bay should be avoided to prevent physical damage to the vegetation.

Site Specific Information**Site # 6-B TGLO Polygon # 2 Quad Name OAK ISLAND****Site information:**

Site Description: Levee at Gau Road

This cut leads inland for a short ways into a housing development.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 26 April 2001

Access:

Closest Boat Ramp: Oak Island Public boat ramp
Distance: 15 minutes
Boat type recommended: Shallow, aluminum hull.
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to the Hwy 563 exit. Turn right and remain on Hwy 563 south past Anahuac until it ends in Oak Island. In Oak Island turn left at the stop sign at West Bayshore Drive and follow it until it ends at the boat ramp.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **SAV**
Environmental: Spotted seatrout, Southern flounder, Sand seatrout, Atlantic croaker, Stripped mullet, Red drum, Spot, Blue crab, Brown shrimp, Grass shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across the entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 80 ft
Current: Slow **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds along the eastern shore of Trinity Bay should be avoided to prevent physical damage to the vegetation.

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Site Specific Information

Site # 6-C TGLO Polygon # N/A

Quad Name OAK ISLAND

**Site information:**

Site Description: Island in front of Double Bayou

The island in front of Double Bayou has the Double Bayou Entrance Channel along it's southern and southeastern edges. To the east and north is very shallow.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 14 March 2001

Access:

Closest Boat Ramp: Oak Island Public boat ramp
Distance: 5 minutes
Boat type recommended: Shallow, aluminum hull.
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to the Hwy 563 exit. Turn right and remain on Hwy 563 south past Anahuac until it ends in Oak Island. In Oak Island turn left at the stop sign at West Bayshore Drive and follow it until it ends at the boat ramp.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: Spotted seatrout, Southern flounder, Sand seatrout, Atlantic croaker, Stripped mullet, Red drum, Spot, Blue crab, Brown shrimp, Grass shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom around island to protect birds that use it.
Number of personnel: 2-4 **Width of inlet:** N/A
Current: Slow **Water depth at mouth:** N/A

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds along the eastern shore of Trinity Bay should be avoided to prevent physical damage to the vegetation.

Site Specific Information**Site # 6-D TGLO Polygon # 4 Quad Name OAK ISLAND****Site information:**

Site Description: Entrance to Double Bayou

Double Bayou splits just past the boat ramp and both forks extent several miles inland. The banks are mostly grassy.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 14 March 2001

Access:**Closest Boat Ramp:** Oak Island Public boat ramp**Distance:** 2 minutes**Boat type recommended:** Shallow, aluminum hull.**Closest Airport:** Chambers County Airport (TOO)**Closest Helicopter Landing:** Chambers County Airport, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

East on I-10 to the Hwy 563 exit. Turn right and remain on Hwy 563 south past Anahuac until it ends in Oak Island. In Oak Island turn left at the stop sign at West Bayshore Drive and follow it until it ends at the boat ramp.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:**Atlas Priority:** **Medium****Environmental:** Spotted seatrout, Southern flounder, Sand seatrout, Atlantic croaker, Stripped mullet, Red drum, Spot, Blue crab, Brown shrimp, Grass shrimp.**Economic:** N/A**Booming strategy recommendations:****Recommendations:** Boom across the entrance to prevent migration inland.**Number of personnel:** 2-4 **Width of inlet:** 500 ft**Current:** Slow **Water depth at mouth:** 8 ft**Safety / Cautionary notes:** Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds along the eastern shore of Trinity Bay should be avoided to prevent physical damage to the vegetation.

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Site Specific Information

Site # 6-E **TGLO Polygon #** N/A **Quad Name** OAK ISLAND

**Site information:**

Site Description: Cut above West Eagle Road

This cut is fairly narrow and wanders through the houses of Oak Island.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 26 April 2001

Access:

Closest Boat Ramp: Oak Island Public boat ramp
Distance: 15 minutes
Boat type recommended: Shallow, aluminum hull.
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to the Hwy 563 exit. Turn right and remain on Hwy 563 south past Anahuac until it ends in Oak Island. In Oak Island turn left at the stop sign at West Bayshore Drive and follow it until it ends at the boat ramp.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: Spotted seatrout, Southern flounder, Sand seatrout, Atlantic croaker, Stripped mullet, Red drum, Spot, Blue crab, Brown shrimp, Grass shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across the entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 50 ft
Current: Slow **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds along the eastern shore of Trinity Bay should be avoided to prevent physical damage to the vegetation.

Site Specific Information**Site # 6-F TGLO Polygon # 2 Quad Name OAK ISLAND****Site information:**

Site Description: Seagrass Beds and Cut below Black Point

This cut leads inland for a short ways, with grass beds at the entrance that need protecting.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 26 April 2001

Access:

Closest Boat Ramp: Oak Island Public boat ramp
Distance: 25 minutes
Boat type recommended: Shallow, aluminum hull.
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 to the Hwy 563 exit. Turn right and remain on Hwy 563 south past Anahuac until it ends in Oak Island. In Oak Island turn left at the stop sign at West Bayshore Drive and follow it until it ends at the boat ramp.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: SAV
Environmental: Spotted seatrout, Southern flounder, Sand seatrout, Atlantic croaker, Stripped mullet, Red drum, Spot, Blue crab, Brown shrimp, Grass shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across the entrance to prevent migration inland and an additional 1000' of boom to protect grass beds.
Number of personnel: 2-4 **Width of inlet:** 100 ft
Current: Slow **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds along the eastern shore of Trinity Bay should be avoided to prevent physical damage to the vegetation.

Site Specific Information**Site # 6-G TGLO Polygon # 1 Quad Name OAK ISLAND****Site information:**

Site Description: Barrier Island at entrance of Trinity River

This area only accessible from the astern ramp of the Fort Anahuac ramps. There are sensitive marshes along the shores.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 19 April 2001

Access:

Closest Boat Ramp: Fort Anahuac Park
Distance: 10 minutes
Boat type recommended: Shallow, aluminum hull.
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport, (b) (7)(F), (b) (3) (A)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **Medium**
Environmental: Waterfowl, White shrimp, Grass shrimp.
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom sensitive area on each bank separately.
Number of personnel: 2-4 **Width of inlet:** 300 ft
Current: Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds along the eastern shore of Trinity Bay should be avoided to prevent physical damage to the vegetation.

Site Specific Information**Site # 6-H TGLO Polygon # 2 Quad Name OAK ISLAND****Site information:**

Site Description: Seagrass beds between Anahuac Channel and Eastern shore of Trinity Bay

The seagrass beds are very shallow and should not be entered. Use the Anahuac Channel to get access to the Trinity Bay side of the beds.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 25 April 2001

Access:

Closest Boat Ramp: Fort Anahuac Park
Distance: 10 minutes
Boat type recommended: Airboat, too shallow for boats outside of channel.
Closest Airport: Chambers County Airport (TOO)
Closest Helicopter Landing: Chambers County Airport (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **SAV**
 Environmental: Waterfowl, White shrimp, Grass shrimp.
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom bay side of beds .
Number of personnel: 2-4 **Width of inlet:** N/A
Current: N/A **Water depth at mouth:** N/A

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds should be avoided to prevent physical damage to the vegetation.

Site Specific Information**Site # 6-I TGLO Polygon # 1 Quad Name OAK ISLAND****Site information:**

Site Description: Barrier Islands along margins of Anahuac Channel

The barrier islands are along the western limit of the Anahuac Channel and it is very shallow between them and to the west..

Latitude: (b) (7)(F), (b) (3) ” **Longitude:** (b) (7)(F), (b) (3) ” **Map #** 24
NOAA chart # 11326 **County:** Chambers
Date last visited: 14 March 2001

Access:**Closest Boat Ramp:** Fort Anahuac Park**Distance:** 15 minutes**Boat type recommended:** Shallow, aluminum hull.**Closest Airport:** Chambers County Airport (TOO)**Closest Helicopter Landing:** Chambers County Airport, (b) (7)(F), (b) (3)**From MSO Houston-Galveston:**

East on I-10 from Houston to HWY 61. Exit right on Hwy 563 to Anahuac. In Anahuac travel south on Hwy 61 (Main Street) to Fort Anahuac Park, 1 mi. on right. Boat ramps are at SW corner of park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:**Atlas Priority:** **Medium****Environmental:** Waterfowl, Alligator, White shrimp, Grass shrimp.**Economic:** N/A**Booming strategy recommendations:****Recommendations:** Boom weather side of islands separately.**Number of personnel:** 2-4 **Width of inlet:** N/A**Current:** Slow **Water depth at mouth:** N/A

Safety / Cautionary notes: Very shallow water near the shoreline, shallow draft boats or airboats may be required to respond. Seagrass beds along the eastern shore of Trinity Bay should be avoided to prevent physical damage to the vegetation.

42. OYSTER CREEK

Gulf of Mexico, GIWW and old Brazos River

CHART(S): Nautical Chart (11322)
Upper Coast Atlas Page 52

STAGING AREAS: 1. Bridge Bait boat ramp (1) (located N.GIWW, near Hwy 332 bridge).

2. Swan Lake boat ramp (2) (b) (7)(F), (b) (3)

ACCESS ROADS: 1. Hwy 332 South to bridge crossing GIWW, turn right prior to crossing bridge, follow signs to boat ramp.

2. 3005 from Galveston to CR 257, proceed on CR 257 to Bay Street (CR 2575), turn right to boat ramp.

DESCRIPTION:**NOTIFY:**

Dow Chemical	(409) 238-2112
U.S. Army Corps of Engineers	(409) 766-3899
Texas Parks & Wildlife Dept.	(281) 461-4071 Houston
U.S. Fish & Wildlife Service	(281) 286-8282 Houston

CAUTION:

Tide condition needs to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboat may be required to respond. Watch for drifting logs on the rivers.

NATURAL COLLECTION AREA:

A large amount of debris is almost always present on Matagorda Peninsula.

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Site Specific Information

Site # 42-A TGLO Polygon # N/A Quad Name Oyster Creek

**Site information:**

Site Description: Oyster Lake shows a representative area of the Oyster Creek Quad

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 51

NOAA chart # 11322

County: Brazoria

Nearest ICW Marker: N/A

Date last visited: 05-10-01

Access:

Closest Boat Ramp:

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west to Freeport.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:

Recommendations:

Boom to protect sensitive marshes.

Number of personnel:

4-6

Width of inlet: 3000 ft

Current:

Minimal

Water depth at mouth: 4 ft

Safety / Cautionary notes:

11. PARK PLACE

Buffalo Bayou west of Sims Bayou to Turning Basin

CHART(S): Nautical Chart (11325)
Upper Coast Atlas Page 29

STAGING AREAS: No public ramps in area, however, private ramps do exist at facilities. (See Highlands for additional sites)

ACCESS ROADS: N/A

DESCRIPTION:

- 11-A Boom south entrance to Harrisburg Bend (250' wide)
- 11-B Boom north entrance to Harrisburg Bend (250')
- 11-C Boom entrance to Brays Bayou (260' wide)

CAUTION:

Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

NATURAL COLLECTION AREAS:

Debris is a common occurrence at the mouth of the Bayou.

Site Specific Information

Site # 11-A TGLO Polygon # N/A

Quad Name PARK PLACE

**Site information:**

Site Description: Southeast entrance into Harrison Bend
Harrisburg Bend extends around Brady Island, on the Houston Ship Channel. The southeast entrance is heavily commercialized..

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map # 29
NOAA chart # 11325 County: Harris
Date last visited: 30 MAR 2001

Access:

Closest Boat Ramp: No public ramps in area.
Distance: 5 minutes
Boat type recommended: Shallow, aluminum hull.
Closest Airport: Houston-Hobby
Closest Helicopter Landing: MSO Houston-Galveston

From MSO Houston-Galveston:

No ramps in area. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom close to the spill site to prevent migration.
Number of personnel: 2-4 **Width of inlet:** 250 ft
Current: Slow **Water depth at mouth:** 17 ft

Safety / Cautionary notes: Crews operating near ship channel should expect wake action as vessels pass. Debris is a common occurrence.

Site Specific Information

Site # 11-B TGLO Polygon # N/A

Quad Name PARK PLACE

**Site information:**

Site Description: Northwest entrance of Harrisburg Bend
Harrisburg Bend extends around Brady Island, on the Houston Ship Channel. It is heavily commercialized.

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map # 29
NOAA chart # 11325 County: Harris
Date last visited: 30 MAR 2001

Access:

Closest Boat Ramp: No public ramps in area.
Distance: 5 minutes
Boat type recommended: Shallow, aluminum hull.
Closest Airport: Houston-Hobby
Closest Helicopter Landing: MSO Houston-Galveston

From MSO Houston-Galveston:

No ramps in area. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom close to the spill site to prevent migration.
Number of personnel: 2-4 **Width of inlet:** 250 ft
Current: Slow **Water depth at mouth:** 23 ft

Safety / Cautionary notes: Crews operating near ship channel should expect wake action as vessels pass. Debris is a common occurrence.

Site Specific Information

Site # 11-C TGLO Polygon # N/A

Quad Name PARK PLACE

**Site information:**

Site Description: Entrance to Bray's Bayou

Bray's Bayou extends from the Houston Ship Channel westward for several miles into Houston. The entrance is dominated by Bloodworth Bond Shipyard, but most of the bayou has grassy banks.

Latitude:

(b) (7)(F), (b) (2)

Longitude:

(b) (7)(F), (b) (2)

Map # 29**NOAA chart #**

11325

County:

Harris

Date last visited:

30 MAR 2001

Access:**Closest Boat Ramp:**

No public ramps in area.

Distance:

5 minutes

Boat type recommended:

Shallow, aluminum hull.

Closest Airport:

Houston-Hobby

Closest Helicopter Landing:

MSO Houston-Galveston

From MSO Houston-Galveston:

No ramps in area. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom close to the spill site to prevent migration.

Number of personnel:

2-4

Width of inlet:

150 ft

Current:

Slow

Water depth at mouth:

22 ft

Safety / Cautionary notes:

Debris is a common occurrence.

10. PASADENA

Buffalo Bayou Boggy Bayou Basin to Sims Bayou

CHART(S): Nautical Chart (11325)
Upper Coast Atlas Page 28

STAGING AREAS: No public ramps in area, however, private ramps due exist at facilities. (See Highlands for additional sites)

ACCESS ROADS: N/A

DESCRIPTION:

- 10-A Boom entrance to Greens Bayou (600' wide)
- 10-B Boom entrance to Hunting Bayou (450' wide)
- 10-C Boom entrance to Cotton Patch Bayou (330' wide)
- 10-D Boom to protect marsh restoration inside Cotton Patch Bayou
- 10-E Boom entrance to Vince Bayou (200' wide)
- 10-F Boom entrance to Panther Creek (100' wide)
- 10-G Boom entrance to Sims Bayou (475' wide)

CAUTION:

Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

NATURAL COLLECTION AREAS:

Debris is a common occurrence at the mouth of the Bayous and Creeks.

Site Specific Information

Site # 10-A TGLO Polygon # N/A

Quad Name PASADENA

**Site information:**

Site Description: Entrance to Green's Bayou

Green's Bayou extends from the Houston Ship Channel northward into Jacinto City. The entrance is heavily commercialized. Debris is a common occurrence at the mouth.

Latitude:	(b) (7)(F), (b) (7)(G)	Longitude:	(b) (7)(F), (b) (7)(G)	Map #	28
NOAA chart #	11325	County:	Harris		
		Date last visited:	8 March 2001		

Access:**Closest Boat Ramp:** No public ramps in area, however, private ramps do exist at facilities.**Distance:** 20 minutes from MSO**Boat type recommended:** Shallow, aluminum hull**Closest Airport:** William P. Hobby, Houston (HOU)**Closest Helicopter Landing:** Ethyl Corp. (H1314)**From MSO Houston-Galveston:**

No ramps available. Minutes by boat from MSO Houston-Galveston.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom close to spill site to prevent migration.**Number of personnel:** 4-6 **Width of inlet:** 600 ft**Current:** Slow **Water depth at mouth:** 32 ft**Safety / Cautionary notes:** Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

Site Specific Information

Site # 10-B TGLO Polygon # N/A

Quad Name PASADENA

**Site information:**

Site Description: Entrance to Hunting Bayou

Hunting Bayou winds from the Houston Ship Channel into toward Jacinto City. Boom could be anchored to mostly grassy banks.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 28
 NOAA chart # 11325 County: Harris
 Date last visited: 8 March 2001

Access:

Closest Boat Ramp: No public ramps in area, however, private ramps due exist at Facilities.

Distance: 15 minutes from MSO

Boat type recommended: Shallow, aluminum hull

Closest Airport: William P. Hobby, Houston (HOU)

Closest Helicopter Landing: Ethyl Corp. (H1314)

From MSO Houston-Galveston:

No ramps available. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across mouth to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 450 ft
Current: Slow **Water depth at mouth:** 6 ft

Safety / Cautionary notes: .

Site Specific Information**Site # 10-C TGLO Polygon # N/A****Quad Name PASADENA****Site information:**

Site Description: Entrance to Cotton Patch Bayou

Cotton Patch Bayou is a small bayou dominated by First Wave/Newpark Shipyard.

Latitude:

(b) (7)(F), (b) (7)(C)

Longitude:

(b) (7)(F), (b) (7)(C)

Map # 28**NOAA chart #**

11325

County:

Harris

Date last visited:

8 March 2001

Access:**Closest Boat Ramp:**

No public ramps in area, however, private ramps do exist at facilities.

Distance:

10 minutes from MSO

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

William P. Hobby, Houston (HOU)

Closest Helicopter Landing:

Ethyl Corp. (H1314)

From MSO Houston-Galveston:

No ramps available. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom close to spill site to prevent migration.

Number of personnel:

2-4

Width of inlet:

330 ft

Current:

Slow

Water depth at mouth:

20 ft

Safety / Cautionary notes:

Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

Site Specific Information

Site # 10-D TGLO Polygon # N/A

Quad Name PASADENA

**Site information:**

Site Description: Marsh restoration inside Cotton Patch Bayou

The marsh is separated from Cotton Patch Bayou by a private bridge with two six foot diameter drains. These drains could be boomed to isolate the marsh.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map #** 28
NOAA chart # 11325 **County:** Harris
Date last visited: 12 April 2001

Access:

Closest Boat Ramp: No public ramps in area, however, private ramps due exist at Facilities.
Distance: 10 minutes from MSO
Boat type recommended: Shallow, aluminum hull
Closest Airport: William P. Hobby, Houston (HOU)
Closest Helicopter Landing: Ethyl Corp. (H1314)

From MSO Houston-Galveston:

No ramps available. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across drain pipes to prevent migration into the marsh.

Number of personnel: 2-4 **Width of inlet:** 20 ft
Current: N/A **Water depth at mouth:** 0 ft

Safety / Cautionary notes:

Site Specific Information

Site # 10-E TGLO Polygon # N/A

Quad Name PASADENA

**Site information:**

Site Description: Entrance to Vince Bayou

Vince Bayou is a narrow, shallow, and seldom used bayou extending from the Houston Ship Channel southward into Houston. Protective boom would need to be anchored into mud/grass banks.

Latitude:	(b) (7)(F), (b) (7)(C)	Longitude:	(b) (7)(F), (b) (7)(C)	Map #	28
NOAA chart #	11325	County:	Harris		
		Date last visited:	8 March 2001		

Access:

Closest Boat Ramp: No public ramps in area, however, private ramps do exist at Facilities.

Distance: 10 minutes from MSO

Boat type recommended: Shallow, aluminum hull

Closest Airport: William P. Hobby, Houston (HOU)

Closest Helicopter Landing: Ethyl Corp. (H1314)

From MSO Houston-Galveston:

No ramps available. Minutes by boat from MSO Houston-Galveston.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:

Recommendations: 300 feet of protective boom at a 45 degree angle below the site is recommended.

Number of personnel: 2-4 **Width of inlet:** 200 ft

Current: Slow **Water depth at mouth:** 12 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

Site Specific Information

Site # 10-F TGLO Polygon # N/A Quad Name PASADENA

**Site information:**

Site Description: Entrance to Panther Creek

Panther Creek starts at the Houston Ship Channel and proceeds into downtown Galena Park.

Latitude: (b) (7)(F), (b) (7)(F), (b) (7)(F) **Longitude:** (b) (7)(F), (b) (7)(F), (b) (7)(F) **Map #** 28
NOAA chart # 11325 **County:** Harris
Date last visited: 24 April 2001

Access:

Closest Boat Ramp: No public ramps in area, however, private ramps due exist at Facilities.

Distance: 10 minutes from MSO

Boat type recommended: Shallow, aluminum hull

Closest Airport: William P. Hobby, Houston (HOU)

Closest Helicopter Landing: Ethyl Corp. (H1314)

From MSO Houston-Galveston:

No ramps available. Minutes by boat from MSO Houston-Galveston.

<u>Trustees/ Contact Numbers:</u>	U.S.C.G. via NRC	(800) 424-8802
	TXGLO via Hotline	(800) 832-8224
	TNRCC	(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:

Recommendations: Boom across entrance to prevent migration inland.

Number of personnel: 2-4 **Width of inlet:** 50 ft

Current: Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass.

Site Specific Information

Site # 10-G TGLO Polygon # N/A

Quad Name PASADENA

**Site information:**

Site Description: Entrance to Sim's Bayou

It can be reached in 5-10 minutes by boat from MSO Houston-Galveston. The bayou extends several miles into Houston with mostly 30 degree grass banks. At the entrance there are piers on each side that booms could be attached to.

Latitude: (b) (7)(F), (b) (7)(F) **Longitude:** (b) (7)(F), (b) (7)(F) **Map #** 28
NOAA chart # 11325 **County:** Harris
Date last visited: 8 March 2001

Access:

Closest Boat Ramp: No public ramps in area, however, private ramps do exist at facilities.

Distance: 5 minutes from MSO

Boat type recommended: Shallow, aluminum hull

Closest Airport: William P. Hobby, Houston (HOU)

Closest Helicopter Landing: Ethyl Corp. (H1314)

From MSO Houston-Galveston:

No ramps available. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom close to spill site to prevent migration.
Number of personnel: 2-4 **Width of inlet:** 475 ft
Current: Slow **Water depth at mouth:** 36 ft

Safety / Cautionary notes: Crews operating along the shoreline of the ship channel should expect wake action as vessels pass. Debris is a common occurrence. Watch out for transients known to frequent area.

20. PORT BOLIVAR

S Galveston Bay

CHART(S): Nautical Chart (11324, 11326 & 11331)
Upper Coast Atlas Page 38

STAGING AREAS: 1. Hornbeck's Bait Camp (2)(GIWW)

(b) (7)(F), (b) (3)

2. Texas City Dike Ramps

ACCESS ROADS: 1. Hwy 87 east from ferry landing, turn left on 7th Street, proceed to Broadway Ave, turn right and proceed to 23rd. Street, turn left, ramp located at the end of the road.2. Hwy 146 south to Hwy 197, turn left and proceed to 2nd. Ave., turn right on and proceed to Bay St., turn left and proceed to Texas City Dike Road, turn right and follow signs to boat ramps.

DESCRIPTION:

20-A Boom to entrance to Horseshoe Lake

20-B Boom Texas City Dike

20-C Boom Hanna Reef

20-D Boom entrance to GIWW

20-E Staging area Erman Pilsner boat ramp Bolivar

CAUTION:

Large swells may develop near deep draft vessel movement, extra caution is recommended while operating near the Texas City Dike. Very shallow water near the shoreline and near Hanna Reef, shallow draft boats, or airboats may be required to respond.

NATURAL COLLECTION AREA:

Deploy boom off the tip of Goat Island to guide oil into the GIWW between Bolivar Peninsula and the Island. Product tends to linger just off Goat Island.

Site Specific Information**Site # 20-A TGLO Polygon # 10****Quad Name Port Bolivar****Site information:**

Site Description: Boom to entrance to Horseshoe Lake from shore.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 38**
NOAA chart # 11324,11326,11331 **County:** Galveston
Nearest ICW Marker: 350 **Date last visited:** April 04, 2000

Access:

Closest Boat Ramp: Erman Pilsner
Distance: 10 minutes
Boat type recommended: V-hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Danny Nasser

From MSU Galveston:Cross ferry, take 87 east to first left onto French Town Rd entrance is 1st small bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: low
 Environmental: turtle
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 75 ft
Current: Medium **Water depth at mouth:** ____ ft

Safety / Cautionary notes: Strong tidal current

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 20-B TGLO Polygon #N/A Quad Name Port Bolivar

Site information:

Site Description: Texas City Dike

Latitude: (b) (7)(F), (b) (7)(F), (b) (7)(F), (b) (7)(F) **Longitude:** (b) (7)(F), (b) (7)(F), (b) (7)(F), (b) (7)(F) **Map# 38**
NOAA chart # 11324,11326,11331 **County:** Galveston
Nearest ICW Marker: 351 **Date last visited:** April 04, 2001

Access:

Closest Boat Ramp: Curls boat ramp
Distance: 20 minutes
Boat type recommended: V-hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: B/P Amoco

From MSU Galveston:

45 north to Texas City, exit FM 1764, go east about 15 min, make right on 9th Ave till you come to the Texas City Dike.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
Environmental: Wildlife
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** _____ ft
Current: Medium **Water depth at mouth:** _____ ft

Safety / Cautionary notes: _____

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Site Specific Information

Site # 20-C TGLO Polygon # 3 Quad Name Port Bolivar

**Site information:**

Site Description: Hanna Reef

Latitude: (b) (7)(F), (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 39
NOAA chart # 11324,11326,11331 County: Galveston
Nearest ICW Marker: 348 Date last visited: April 04, 2001

Access:

Closest Boat Ramp: GYB
Distance: 10 minutes
Boat type recommended: V-Hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Baffle Point

From MSU Galveston:

Launch boat from GYB head northeast.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

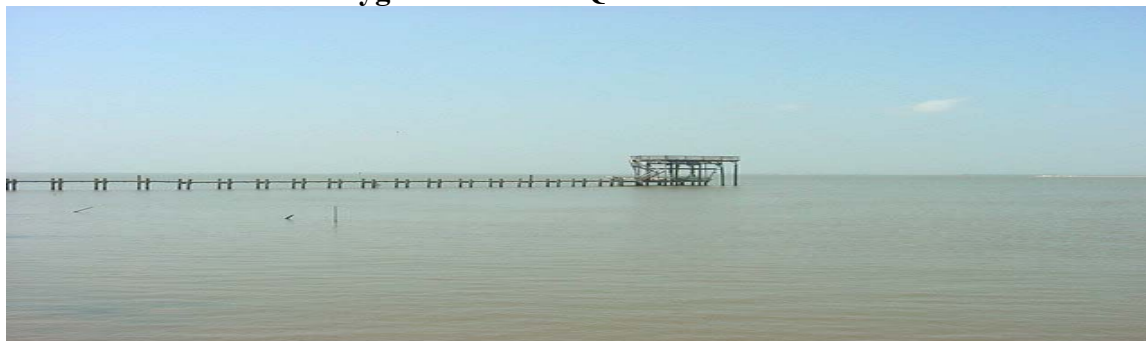
Atlas Priority: Caution
Environmental: Wildlife
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 Width of inlet: _____ ft
Current: Medium Water depth at mouth: _____

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
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Site Specific Information**Site # 20-D TGLO Polygon # 14****Quad Name Port Bolivar****Site information:**

Site Description: Boom entrance to GIWW.

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 58
 NOAA chart # 11324,11326,11331 County: Galveston
 Nearest ICW Marker: 350.5 Date last visited: April 04, 2001

Access:

Closest Boat Ramp: Erman Pilsner
 Distance: 10 minutes
 Boat type recommended: V-hull
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Danny Nasser

From MSU Galveston:

Access by boat

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
 Environmental: Wildlife
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** _____ ft
Current: High **Water depth at mouth:** _____ ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 20-E TGLO Polygon # 16 Quad Name Port Bolivar****Site information:**

Site Description: _Stagging area; 20ft wide boat ramp Erman Pilsner boat ramp 16th st. Bolivar.

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 38
 NOAA chart # 11324,11326,11331 County: Galveston
 Nearest ICW Marker: 348 Date last visited: April 04, 2001

Access:

Closest Boat Ramp: GYB
 Distance: 10 minutes
 Boat type recommended: V-Hull
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Danny Nasser

From MSO Houston-Galveston:

Cross ferry, take Hwy 87 east, go to 16th St., turn right following down to the beach dead ends into ramp on the southside of North Jetty in Bolivar.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: low
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
 Number of personnel: 2-4 Width of inlet: _____ ft
 Current: Medium Water depth at mouth: _____ ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 20-A-2 TGLO Polygon # 2 Quad Name Port Bolivar****Site information:**

Site Description: Horseshoe Lake-Oyster lake area.

Latitude: (b) (7)(F), (b) (7)(G) **Longitude:** (b) (7)(F), (b) (7)(G) **Map# 38**
NOAA chart # 11324,11326,11331 **County:** Galveston
Nearest ICW Marker: 350 **Date last visited:** April 04, 2001

Access:

Closest Boat Ramp: Erman Pilsner boat ramp
Distance: 10 minutes
Boat type recommended: Shallow flat boat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Danny Nasser

From MSO Houston-Galveston:Cross ferry take 87 east take 1st left onto Frenchtown Rd. lake on right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
 Environmental: Turtles
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: Medium **Water depth at mouth:** _____ ft

Safety / Cautionary notes: _____

Site Specific Information**Site # 20-A-3 TGLO Polygon # 11 Quad Name Port Bolivar****Site information:**

Site Description: Horseshoe Lake area

Latitude: (b) (7)(F), (b) (7)(F), (b) (7)(F), (b) (7)(F) **Longitude:** (b) (7)(F), (b) (7)(F), (b) (7)(F), (b) (7)(F) **Map# 38**
NOAA chart # 11324,11326,11331 **County:** Galveston
Nearest ICW Marker: 350 **Date last visited:** April 04, 2001

Access:

Closest Boat Ramp: Erman Pilsner
Distance: 10 minutes
Boat type recommended: Shallow flat bottom
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Danny Nasser

From MSO Houston-Galveston:Cross ferry take Hwy 87 east, taking 1st left onto Frenchtown Rd., the lake is on the right.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: Turtle
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** _____ ft
Current: Medium **Water depth at mouth:** _____

Safety / Cautionary notes: _____

Site Specific Information**Site # 20-A-4 TGLO Polygon # 3 Quad Name Port Bolivar****Site information:**

Site Description: Hanna Reef Area

Latitude: (b) (7)(F), (b) (7)(C) **Longitude:** (b) (7)(F), (b) (7)(C) **Map# 38**
NOAA chart # 11324,11326,11331 **County:** Galveston
Nearest ICW Marker: 348 **Date last visited:** April 04, 2001

Access:

Closest Boat Ramp: Hornbeck's Bait Camp
Distance: 10 minutes
Boat type recommended: V-Hull
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Danny Nasser

From MSU Galveston:

No land access

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Caution
Environmental: Isolated oyster reef; diamond back terrapin
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A

Safety / Cautionary notes:

28. SAN LUIS PASS

Gulf of Mexico and SW West Bay

CHART(S): Nautical Chart (11322)
Upper Coast Atlas Page 48

STAGING AREAS: San Luis County Park & Boat Ramp (2)

(b) (7)(F), (b) (3)

ACCESS ROADS: I-45 south for Houston to Seawall Blvd. (FM 3005), proceed west to the first exit after crossing the San Luis Pass bridge, take exit and turn north into the park area.

DESCRIPTION:

Gulf of Mexico

28-A Beach washout may form in this area, booming may be required. Numerous Beach access areas are located in this area.

West Bay

28-B Boom to protect numerous coves and sensitive marshes located on the West side of Galveston Island.

San Luis Pass28-C Deploy cascading diversion boom north of San Luis Pass Bridge to guide oil into strategic pick-up areas along West side of pass. Offshore cascading diversion boom has been proven effective in diverting simulated oil west and away from the pass, sea condition will be a factor.

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond in West Bay. Extremely swift currents will occur during peak Flood/Ebb at San Luis Pass.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted

Site Specific Information

Site # 28-C TGLO Polygon # 2 Quad Name San Luis Pass

**Site information:**

Site Description: San Luis Pass Area – area is constantly changing – diversion boom and cascading booming strategies needed

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 48
 NOAA chart # 11322 County: Galveston
 Nearest ICW Marker: _____ Date last visited: 04-06-01

Access:

Closest Boat Ramp: Private ramp
Distance: 5 minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

West on Hwy 87.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: Habitat for fish, wading birds, diving birds, gulls, terns, shrimp
 Economic: Recreational boating

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** N/A ft
Current: High **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

34. SARGENT

Gulf of Mexico, GIWW, Caney Creek and E Matagorda Bay

CHART(S): Nautical Chart (11319)
Upper Coast Atlas Page 56

STAGING AREAS: Caney Creek Estates Park (at GIWW) (b) (7)(F), (b) (3)

ACCESS ROADS: FM 457 from Bay City, turn right on Carancahua Rd, Turn left on Dolphin Way, follow to park.

DESCRIPTION:Gulf of Mexico

34-A Beach washout may form in this area, booming may be required.

34-B Beach access: 4X4 vehicles needed on Matagorda Peninsula.

East Matagorda Bay

34-C This bay complex is extremely sensitive, it contains numerous marsh & wetlands, plus sheltered tidal flats. Every effort should be made to prevent any product from entering this area.

GIWW

34-D Boom entrance to Caney Creek Estates Park (90' wide)

34-E Boom east entrance to Caney Creek (280' wide)

34-F Boom west entrance to Caney Creek (240' wide)

34-G Boom entrance to East Matagorda Bay Mile 420.4 (180' wide)

34-H Boom entrance to Journey Bayou (270' wide)

34-I Boom entrance to East Matagorda Bay Mile 421.6 (560' wide)

34-J Boom entrance to march north GIWW near Mile 421.7 (120' wide)

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Strong currents occur on East Matagorda Bay cut.

NATURAL COLLECTION AREA:

A large amount of debris is almost always present on Matagorda Peninsula.

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Site Specific Information

Site # 34-D TGLO Polygon # N/A

Quad Name Sargent

Picture # 40

Site information:

Site Description: Caney Creek Estates

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 56

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: 420

Date last visited: _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 106 yds**Current:** Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Strong currents occur on East Matagorda Bay cut.

Site Specific Information

Site # 34-E TGLO Polygon # N/A

Quad Name Sargent

Picture # 41

Site information:

Site Description: east entrance to Caney Creek

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 56

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: 420

Date last visited: _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 105 yds**Current:** Slow **Water depth at mouth:** 5 ft**Safety / Cautionary notes:** Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Strong currents occur on East Matagorda Bay cut.

Site Specific Information

Site # 34-F TGLO Polygon # N/A

Quad Name Sargent

Picture # 39

Site information:

Site Description: west entrance to Caney Creek

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 56

NOAA chart # 11319

County: (b) (7)(F), (b) (3)

Brazoria

Nearest ICW Marker: 420

Date last visited: _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 103 yds**Current:** Slow **Water depth at mouth:** 4 ft**Safety / Cautionary notes:** Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Strong currents occur on East Matagorda Bay cut.

Site Specific Information**Site # 34-G** **TGLO Polygon # N/A****Quad Name Sargent***Picture # 38***Site information:**

Site Description: east entrance to East Matagorda Bay

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 56**
NOAA chart # 11319 **County:** Brazoria
Nearest ICW Marker: 420 **Date last visited:** _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: **N/A**
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 93 yds.
Current: Slow **Water depth at mouth:** 10 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Strong currents occur on East Matagorda Bay cut.

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Site Specific Information

Site # 34-H TGLO Polygon # N/A

Quad Name Sargent

Picture # 37

Site information:

Site Description: Journey Bayou

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 56

NOAA chart # 11319

County: Brazoria

Nearest ICW Marker: 420

Date last visited: _____

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 103 yds**Current:** Slow **Water depth at mouth:** 3 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Strong currents occur on East Matagorda Bay cut.

Site Specific Information**Site # 34-I** **TGLO Polygon # N/A****Quad Name Sargent***Picture # 36***Site information:**

Site Description: entrance to East Matagorda

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map# 56****NOAA chart #** 11319**County:** Brazoria**Nearest ICW Marker:** 420**Date last visited:** _____**Access:****Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:Atlas Priority: **N/A**

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 220 yds**Current:** Slow **Water depth at mouth:** 34 ft**Safety / Cautionary notes:** Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Strong currents occur on East Matagorda Bay cut.

Site Specific Information**Site # 34-J** **TGLO Polygon # N/A****Quad Name Sargent***Picture # 35***Site information:**

Site Description: entrance to marsh North GIWW near mile marker 421.7.

Latitude:	(b) (7)(F), (b) (3)	Longitude:	(b) (7)(F), (b) (3)	Map#	56
NOAA chart #	11319	County:	Brazoria		
Nearest ICW Marker:	420	Date last visited:	_____		

Access:**Closest Boat Ramp:** _____**Distance:** _____ minutes**Boat type recommended:** Shallow, Aluminum hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:**

Follow Hwy 87 south over the San Luis Pass Bridge.

Trustees/ Contact Numbers:

U.S.C.G. via NRC	(800) 424-8802
TXGLO via Hotline	(800) 832-8224
TNRCC	(512) 463-7727

Resources at Risk:Atlas Priority: **N/A**Environmental: **N/A**Economic: **N/A****Booming strategy recommendations:****Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 50 yds**Current:** Slow **Water depth at mouth:** 2 ft

Safety / Cautionary notes: Tide condition need to be monitored to prevent equipment loss, or being stranded due to high tide conditions on beach. Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Strong currents occur on East Matagorda Bay cut.

Map #46 - SEA ISLE

Gulf of Mexico, West Bay, GIWW and Chocolate Bay

CHART(S): Nautical Chart (11322)

Upper Coast Atlas Page 46

STAGING AREAS: Sea Isle Marina Boat Ramp (2)
(See Christmas Point for additional sites)

ACCESS ROADS: 3005 from Galveston to Sea Isle, turn right on San Jacinto, Proceed to Burnet, turn left and proceed to boat ramp.

DESCRIPTION:

Gulf of Mexico

Beach washout may form in this area, booming may be required.

Numerous Beach access areas are located in this area.

West Bay

Boom to protect numerous coves, canals and sensitive marshes from Ostermayer Bayou to Bay Harbor.

GIWW

Boom entrance to Carancahua Bayou (225' wide)

Boom entrance to Carancahua Cut to West Bay (410' wide)

Boom entrance to canal north GIWW at Mile 367.5 (210" wide)

Note: Intermittent spoils area opening into West Bay from Mile 369 to Chocolate Bay entrance.

Chocolate Bay

Boom to protect spoil Islands south Chocolate Bay

Boom south entrance to Halls Lake (180' wide)

Boom north entrance to Halls Lake (315' wide)

Boom entrance to marsh position (b) (7)(F), (b) (3)

Boom entrance to marsh position

Boom entrance to Amarada Cut (324' wide)

NOTIFY:

Texas Parks & Wildlife Dept. (281) 461-4071 Houston

US Fish & Wildlife Service (281) 286-8282 Houston

CAUTION:

Very shallow water near the shore line, shallow draft boats, or airboats may be required to respond. Seagrass beds along west Chocolate Bay should be avoided during response activities to prevent physical damage to vegetation.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

5. SETTEGAST

Buffalo Bayou to Whiteoak Bayou

CHART(S): Nautical Chart 11325
Upper Coast Atlas page 23

STAGING AREAS: Bridge access only

ACCESS ROADS: Note: no boat ramps available.

DESCRIPTION:

5-A Boom Buffalo Bayou close to spill site to prevent migration.

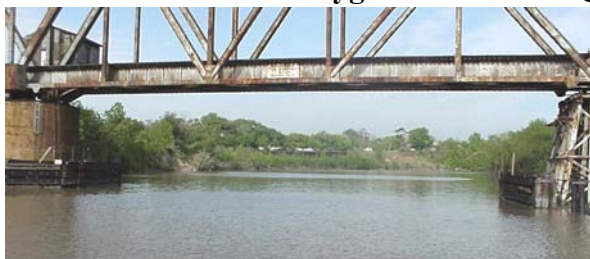
CAUTION:

During heavy rain fall currents can become dangerous. Watch out for transients known to frequent area.

Site Specific Information

Site # 5-A TGLO Polygon # N/A

Quad Name SETTEGAST

**Site information:**

Site Description: Buffalo Bayou above Turning Basin

Buffalo Bayou above the Turning Basin winds through downtown Houston. It has mostly steep mud banks.

Latitude: (b) (7)(F), (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map # 23
 NOAA chart # 11325 County: Harris
 Date last visited: 30 MAR 2001

Access:

Closest Boat Ramp: No boat ramps available.

Distance: 15 minutes

Boat type recommended: Shallow, aluminum hull.

Closest Airport: Bush Intercontinental, Houston, (IAH)

Closest Helicopter Landing: (H1270) Mr. McMullan 713-676-3841

From MSO Houston-Galveston:

No ramps in area. Minutes by boat from MSO Houston-Galveston.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom close to spill site to prevent migration.**Number of personnel:** 2-4 **Width of inlet:** 300 ft**Current:** Slow **Water depth at mouth:** 22 ft

Safety / Cautionary notes: During heavy rainfall currents can become dangerous and debris may be a problem. Watch out for transients known to frequent area.

Map #33 - SMITH POINT

NW East Bay, SE Trinity Bay and Galveston Bay

CHART(S): Nautical Chart (11326)
Upper Coast Atlas Page 33

STAGING AREAS: Smith Point public boat ramp (1)

ACCESS ROADS: Smith Point: East on I-10 from Houston to Hwy 61. Turn right on Hwy 61 and proceed south to junction of Hwy 61 and FM 562. Follow FM 562 south all the way to the tip of Smith Point. Robbins Park is located along the Trinity River Channel at the end of FM 562.

DESCRIPTION:

Smith Point is very environmentally sensitive, most of the shoreline is salt and brackish water marshes.

Boom to protect Smith Point Marsh

Boom entrance to unnamed inlet 2NM south of Lone Oak Bayou

Boom to protect Frankland Point marsh

NOTIFY:

Candy Cain Abshier WMA Manager (409) 736-2551

Texas Parks & Wildlife Dept. (281) 461-4071 Houston

US Fish & Wildlife Service (281) 286-8282 Houston

CAUTION:

Very shallow water near the shore line, shallow draft boats, or airboats may be required to respond American Alligators have been sighted in this area.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted. Seagrass beds along eastern shore of Trinity bay should be avoided during response activities to prevent physical damage to vegetation.

40. SOUTH OF GALVESTON

Gulf of Mexico and West Bay

CHART(S): Nautical Chart (11322)
Upper Coast Atlas Page 44

STAGING AREAS: Jamaica Beach Boat Ramp (1)

ACCESS ROADS: 3005 from Galveston to Jamaica Beach, turn right on Bob Smith Rd, Proceed to Jolly Roger Rd, turn left and proceed to Basin Rd. turn left and proceed to boat ramp.

DESCRIPTION:

Gulf of Mexico

Beach washout may form in this area, booming may be required. Numerous Beach access areas are located in this area.

NOTIFY:

Texas Parks & Wildlife Dept.

(281) 461-4071 Houston

U.S. Fish & Wildlife Service

(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond. Seagrass beds along south West Bay should be avoided during response activities to prevent physical damage to vegetation.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

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Site Specific Information

Site # 40-A TGLO Polygon # N/A Quad Name South of Galveston



Site information:

Site Description: Example of beach wash over area that may exist in this area
No specific Lat & Long

Latitude: N **Longitude:** W **Map# 44**
NOAA chart # 11322 **County:** Galveston
Nearest ICW Marker: N/A **Last Visited:** 04-06-01

Access:

Closest Boat Ramp: Private ramp
Distance: ____ minutes
Boat type recommended: Any
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:

Follow Hwy 87 west

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: N/A
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** N/A ft
Current: High **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

7. UMBRELLA POINT

W Trinity Bay (Umbrella Point to Point Barrow)

CHART(S): Nautical Chart (11326)
Upper Coast Atlas Page 25STAGING AREAS: Crawley Marina (2)
(b) (7)(F), (b) (3) (See Morgan's Point for additional site)

ACCESS ROADS: Crawley Marina (Old location): East on Hwy 225 from Houston to Hwy 146. Turn left on Hwy 146 and proceed north to Hwy 55. Turn right onto Hwy 55 and proceed east on Hwy 55 to FM 1405. Turn right on FM 1405 and proceed south to FM 2354. Turn left on FM 2354 and proceed east 3.4 miles to dirt road before white tank. Turn Right to ramp (2) Note: Ramp not in good repair, very shallow.

DESCRIPTION:

- 7-A Boom Cedar Gully Creek (50' wide)
- 7-B Boom Point Barrow Creek (20' wide)
- 7-C Boom to protect marsh north of Point Barrow (Est. 300 yards)
- 7-D Boom to protect McCollum Park

CAUTION:

Numerous submerged pilings were noted along the shoreline.

NATURAL COLLECTION AREA:

Product discharged in lower Trinity Bay tends to collect
Along the shoreline north of Umbrella Point and south of Point Barrow.

Site Specific Information

Site # 7-A TGLO Polygon # N/A

Quad Name UMBRELLA POINT

**Site information:**

Site Description: Entrance to Cedar Gully Creek
Cedar Gully Creek leads inland for quite a ways.

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map** 25
NOAA chart # 11326 **County:** Chambers
Date last visited: 25 April 2001

Access:

Closest Boat Ramp: Ocean Mobile Home Park ramp
Distance: 20 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. Stay on Bus. 146 to Spur 55 and turn right. Spur 55 to FM 1405 and turn right. FM 1405 until it ends at FM 2354 and turn left. FM 2354 for 1.4 miles and turn right into Ocean Mobile Home Park. The ramp is at the back of the park and is shallow. CALL 281-573-1588, Mr. Kevin Vargo, before arriving. Alternate ramp is Fort Anahuac Park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: Several species of fish including Seatrout, Brown shrimp, White shrimp, Blue crab, Oyster
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom entrance to prevent migration inland.
Number of personnel: 2-4 **Width of inlet:** 50 ft
Current: Slow **Water depth at mouth:** 1 ft

Safety / Cautionary notes: Numerous submerged pilings were noted along shoreline. Product discharged into lower Trinity Bay tends to collect along this shoreline between Umbrella Point and Point Barrow.

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Site Specific Information

Site # 7-B TGLO Polygon # N/A Quad Name UMBRELLA POINT

**Site information:**

Site Description: Entrance to Point Barrow Creek
Point Barrow Creek leads inland for several miles.

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map # 25
NOAA chart # 11326 County: Chambers
Date last visited: 25 April 2001

Access:

Closest Boat Ramp: Ocean Mobile Home Park ramp
Distance: 25 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. Stay on Bus. 146 to Spur 55 and turn right. Spur 55 to FM 1405 and turn right. FM 1405 until it ends at FM 2354 and turn left. FM 2354 for 1.4 miles and turn right into Ocean Mobile Home Park. The ramp is at the back of the park and is shallow. CALL 281-573-1588, Mr. Kevin Vargo, before arriving. Alternate ramp is Fort Anahuac Park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
Environmental: Several species of fish including Seatrout, Brown shrimp, White shrimp, Blue crab, Oyster
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom entrance to prevent migration inland.
Number of personnel: 2-4 Width of inlet: 50 ft
Current: Slow Water depth at mouth: 1 ft

Safety / Cautionary notes: Numerous submerged pilings were noted along shoreline. Product discharged into lower Trinity Bay tends to collect along this shoreline between Umbrella Point and Point Barrow.

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Site Specific Information

Site # 7-C TGLO Polygon # N/A

Quad Name UMBRELLA POINT

**Site information:**

Site Description: Marsh north of Point Barrow

This is a shore side marsh that is sensitive and needs protecting.

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map # 25
 NOAA chart # 11326 County: Chambers
 Date last visited: 25 April 2001

Access:

Closest Boat Ramp: Ocean Mobile Home Park ramp
Distance: 25 minutes
Boat type recommended: Shallow, aluminum hull
Closest Airport: Baytown Airport, Baytown (HPY)
Closest Helicopter Landing: Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. Stay on Bus. 146 to Spur 55 and turn right. Spur 55 to FM 1405 and turn right. FM 1405 until it ends at FM 2354 and turn left. FM 2354 for 1.4 miles and turn right into Ocean Mobile Home Park. The ramp is at the back of the park and is shallow. CALL 281-573-1588, Mr. Kevin Vargo, before arriving. Alternate ramp is Fort Anahuac Park.

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: Several species of fish including Seatrout, Brown shrimp, White shrimp, Blue crab, Oyster
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom with 3000' of boom to protect shoreline marsh..
Number of personnel: 2-4 **Width of inlet:** N/A
Current: Slow **Water depth at mouth:** N/A

Safety / Cautionary notes: Numerous submerged pilings were noted along shoreline. Product discharged into lower Trinity Bay tends to collect along this shoreline between Umbrella Point and Point Barrow.

Site Specific Information**Site # 7-D TGLO Polygon # N/A****Quad Name UMBRELLA POINT****Site information:**

Site Description: McCollum Park

McCollum Park has a bluff shore, but it should be protected.

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map # 25**NOAA chart #**

11326

County:

Chambers

Date last visited:

25 April 2001

Access:**Closest Boat Ramp:**

Ocean Mobile Home Park ramp

Distance:

25 minutes

Boat type recommended:

Shallow, aluminum hull

Closest Airport:

Baytown Airport, Baytown (HPY)

Closest Helicopter Landing:

Baytown Airport, (b) (7)(F), (b) (3)

From MSO Houston-Galveston:

I-610 south to Hwy 225. Hwy 225 east to Hwy 146. Hwy 146 north over bridge to Bus. 146. Stay on Bus. 146 to Spur 55 and turn right. Spur 55 to FM 1405 and turn right. FM 1405 until it ends at FM 2354 and turn left. FM 2354 for 1.4 miles and turn right into Ocean Mobile Home Park. The ramp is at the back of the park and is shallow. CALL 281-573-1588, Mr. Kevin Vargo, before arriving. Alternate ramp is Fort Anahuac Park.

Trustees/ Contact Numbers:

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

N/A

Environmental:

N/A

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom with 3000' of boom to protect shoreline..

Number of personnel:

2-4

Width of inlet:

N/A ft

Current:

N/A

Water depth at mouth:

N/A ft

Safety / Cautionary notes:

24. VIRGINIA POINT

SW Galveston Bay, West Bay, Jones Bay and GIWW

CHART(S): Nautical Chart (11324 & 11322)
Upper Coast Atlas Page 42

STAGING AREA: 1. Fat Boy's Bait & Boat Ramp (2) (b) (7)(F), (b) (3)

2. Teakwood Marina (1) (b) (7)(F), (b) (3)

3. T&T Marine (Staging Area)

ACCESS ROAD: 1. I-45 south from Houston to Tiki Island exit, loop to the right and proceed north to boat ramp

2. I-45 south from Houston to Tiki Island exit, follow sign to Marina on left.

3. I-45 south from Houston to Teichman Rd., turn right and proceed to the end of the road at T&T Marine.

DISCRIPTION:

Swift currents (2+) in this area will require cascading diversion boom techniques to divert product away from sensitive areas, or to collection sites.

Galveston Bay

24-A Boom to protect Swan Lake

West Bay

24-B Boom to protect Offatts Bayou

24-C Boom entrance to Sydnor Bayou (460' wide)

24-D Boom to protect South Deer Island

24-E Boom to protect North Deer Island

24-F Boom to protect Gangs Bayou

24-G Boom canals to Village of Tiki Island

24-H Boom entrance to Jones Bay East Tiki Island (210' wide)

24-I Boom to protect Islands in south Jones Bay

Jones Bay

24-J Boom three marsh entrances north Jones Bay east of Highland Bayou

24-K Boom entrance to Highland Bayou (640' wide)

24-L Boom entrance to Basford Bayou (600' wide)

24-M Boom entrance to canal west of Basford Bayou (220' wide)

GIWW

24-N Boom entrance to West Bay at Mile 364.3 (1,650' wide)

24-O Boom entrance to Greens Lake (2,850' wide)

24-P Boom entrance to Sweetwater Lake

24-Q Boom to protect Flamingo Isles.

24-R Boom to protect tidal inlet off Sportsman Road

24-S Boom to protect tidal inlet on the north side of Jones Bay

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NOTIFY:

Texas Parks & Wildlife Dept.
U.S. Fish & Wildlife Service

(281) 461-4071 Houston
(281) 286-8282 Houston

CAUTION:

Very shallow water near the shoreline, shallow draft boats, or airboats may be required to respond.

NATURAL COLLECTION AREA:

Due to the extensive marshland and shallow water located in this area, there are not any good collection sites noted.

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Site Specific Information**Site # 24-P TGLO Polygon # 17****Quad Name Virginia Point****Site information:**

Site Description: Entrance to Sweetwater Lake

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map#** 42
NOAA chart # 11324, 11322 **County:** Galveston
Nearest ICW Marker: 357 **Date last visited:** 05-10-01

Access:

Closest Boat Ramp: Private ramp
Distance: ____ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: Habitat for fish, wading birds
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 300 ft
Current: Minimal **Water depth at mouth:** 3 ft

Safety / Cautionary notes:

Site Specific Information

Site # 24-G TGLO Polygon # 10

Quad Name Virginia Point

**Site information:**

Site Description: East Entrance to Tiki Island @ Jones Bay

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 42
 NOAA chart # 11324, 11322 County: Galveston
 Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
 Distance: ____ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: Habitat for fish, wading birds, turtles, shrimp, crabs, gulls, terns
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
 Number of personnel: 2-6 Width of inlet: 210 ft
 Current: Medium Water depth at mouth: 12 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-L

TGLO Polygon # 5

Quad Name Virginia Point

**Site information:**

Site Description: Entrance to Basford Bayou

Latitude:

(b) (7)(F), (b) (3)

Longitude:

(b) (7)(F), (b) (3)

Map# 42**NOAA chart #**

11324, 11322

County:

Galveston

Nearest ICW Marker:

357

Date last visited:

05-10-01

Access:**Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority:

Low

Environmental:

Habitat for fish, wading birds, waterfowl

Economic:

N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

4-6

Width of inlet:

50 ft

Current:

Medium

Water depth at mouth: 3ft**Safety / Cautionary notes:**

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-C TGLO Polygon # N/A

Quad Name Virginia Point

Site information:

Site Description: Entrance to Snyder Bayou

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 42
 NOAA chart # 11324, 11322 County: Galveston
 Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
 Distance: ___ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** 30 ft
Current: Medium **Water depth at mouth:** 6 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-Q TGLO Polygon # 4 Quad Name Virginia Point

Site information:

Site Description: Flaming Isles

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 42
 NOAA chart # 11324, 11322 County: Galveston
 Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
 Distance: ____ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
 Environmental: Habitat for fish, wading birds, waterfowl
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 150 ft
Current: Slow **Water depth at mouth:** 6 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 24-F****TGLO Polygon # 19****Quad Name Virginia Point****Site information:**

Site Description: Gang's Bayou

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map# 42****NOAA chart #** 11324, 11322**County:** Galveston**Nearest ICW Marker:** 357**Date last visited:** 05-10-01**Access:****Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: High

Environmental: Habitat for gulls, terns

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: 200 ft**Current:**

Medium

Water depth at mouth: 3 ft**Safety / Cautionary notes:**

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-N TGLO Polygon # 1 Quad Name Virginia Point

Site information:

Site Description: Green's Cut @ West Bay

Latitude: (b) (7)(F), (b) Longitude: W (b) (7)(F), (b) Map# 42
 NOAA chart # 11324, 11322 County: Galveston
 Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
 Distance: ____ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: Habitat for fish, wading birds, waterfowl
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** 1650 ft
Current: Medium **Water depth at mouth:** 3 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-O TGLO Polygon # 2 Quad Name Virginia Point

Site information:

Site Description: Entrance to Greens Lake

Latitude: (b) (7)(F), (b) (7)(F), (b) (7)(F), (b) (7)(F) **Longitude:** (b) (7)(F), (b) (7)(F), (b) (7)(F), (b) (7)(F) **Map# 42**
NOAA chart # 11324, 11322 **County:** Galveston
Nearest ICW Marker: 357 **Date last visited:** 05-10-01

Access:

Closest Boat Ramp: Private ramp
Distance: ____ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport (b) (7)(F), (b) (7)(F), (b) (7)(F), (b) (7)(F)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
Environmental: Habitat for fish, wading birds
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** 2850 ft
Current: Medium **Water depth at mouth:** 5 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-K TGLO Polygon # 5

Quad Name Virginia Point

**Site information:**

Site Description: Highland Bayou

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 42
 NOAA chart # 11324, 11322 County: Galveston
 Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
 Distance: ___ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
 Environmental: Habitat for fish, wading birds, waterfowl
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 640 ft
Current: Medium **Water depth at mouth:** 4 ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-C TGLO Polygon # ____

Quad Name Virginia Point

**Site information:**

Site Description: Housing area Entrance to Snyder Bayou

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 42

NOAA chart # 11324, 11322

County: Galveston

Nearest ICW Marker: 357

Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp

Distance: ____ minutes

Boat type recommended: Shallow hull or airboat

Closest Airport: Scholes Field Airport GLS

Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-4 **Width of inlet:** 600 ft**Current:** Medium **Water depth at mouth:** 11 ft**Safety / Cautionary notes:** _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 24-I TGLO Polygon # 12****Quad Name Virginia Point****Site information:**

Site Description: Island in Jones Bay

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3) "**Map# 42****NOAA chart #** 11324, 11322**County:** Galveston**Nearest ICW Marker:** 357**Date last visited:** 05-10-01**Access:****Closest Boat Ramp:**

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low

Environmental: Habitat for fish, wading birds, waterfowl

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet: N/A ft**Current:**

Medium

Water depth at mouth: N/A ft**Safety / Cautionary notes:**

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-S TGLO Polygon # 5 Quad Name Virginia Point

**Site information:**

Site Description: Marsh North side of Jones Bay

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 42
NOAA chart # 11324, 11322 County: Galveston
Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
Distance: ____ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
[REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
TXGLO via Hotline (800) 832-8224
TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for fish, wading birds, waterfowl
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24- TGLO Polygon # N/A

Quad Name Virginia Point

**Site information:**

Site Description: North Bird Island

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 42
 NOAA chart # 11324, 11322 County: Galveston
 Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
 Distance: ___ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: N/A
 Environmental: N/A
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** N/A ft
Current: Medium **Water depth at mouth:** N/A ft

Safety / Cautionary notes: _____

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-B TGLO Polygon # 23

Quad Name Virginia Point

Site information:

Site Description: Offatts Bayou

Latitude: (b) (7)(F), (b) Longitude: (b) (7)(F), (b) Map# 42
 NOAA chart # 11324, 11322 County: Galveston
 Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
 Distance: ___ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium
 Environmental: Habitat for fish, wading birds, shrimp, bi-valves
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 4-6 **Width of inlet:** 3000 ft
Current: Medium **Water depth at mouth:** 12 ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24- TGLO Polygon # N/A

Quad Name Virginia Point

**Site information:**

Site Description: South Bird Island

Latitude: (b) (7)(F), (b) (3)

Longitude: (b) (7)(F), (b) (3)

Map# 42

NOAA chart # 11324, 11322

County: Galveston

Nearest ICW Marker: 357

Date last visited: 05-10-01

Access:

Closest Boat Ramp:

Private ramp

Distance:

___ minutes

Boat type recommended:

Shallow hull or airboat

Closest Airport:

Scholes Field Airport GLS

Closest Helicopter Landing:

Scholes Field Airport, (b) (7)(F), (b) (3)

From MSU Galveston:**Trustees/ Contact Numbers:**

U.S.C.G. via NRC

(800) 424-8802

TXGLO via Hotline

(800) 832-8224

TNRCC

(512) 463-7727

Resources at Risk:

Atlas Priority: N/A

Environmental: N/A

Economic: N/A

Booming strategy recommendations:**Recommendations:**

Boom to protect sensitive marshes.

Number of personnel:

2-4

Width of inlet:

N/A ft

Current:

Medium

Water depth at mouth:

N/A ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 24-A TGLO Polygon # 23****Quad Name Virginia Point****Site information:**

Site Description: Swan Lake

Latitude: (b) (7)(F), (b) (3)**Longitude:** (b) (7)(F), (b) (3)**Map# 42****NOAA chart #** 11324, 11322**County:** Galveston**Nearest ICW Marker:** 357**Date last visited:** 05-10-01**Access:****Closest Boat Ramp:** Private ramp**Distance:** ___ minutes**Boat type recommended:** Shallow hull or airboat**Closest Airport:** Scholes Field Airport GLS**Closest Helicopter Landing:** Scholes Field Airport, (b) (7)(F), (b) (3)**From MSU Galveston:****Trustees/ Contact Numbers:**

U.S.C.G. via NRC (800) 424-8802

TXGLO via Hotline (800) 832-8224

TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Medium

Environmental: Habitat for fish, wading birds, bi-valves, shrimp

Economic: N/A

Booming strategy recommendations:**Recommendations:** Boom to protect sensitive marshes.**Number of personnel:** 2-8 **Width of inlet:** 15,000 ft**Current:** Medium **Water depth at mouth:** 3 ft**Safety / Cautionary notes:**

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-M TGLO Polygon # 8 Quad Name Virginia Point

**Site information:**

Site Description: Canal West of Basford Bayou

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 42**
NOAA chart # 11324, 11322 **County:** Galveston
Nearest ICW Marker: 357 **Date last visited:** 05-10-01

Access:

Closest Boat Ramp: Private ramp
Distance: ____ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for fish, wading birds, waterfowl
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 220 ft
Current: Medium **Water depth at mouth:** 4 ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information**Site # 24-R TGLO Polygon # 18****Quad Name Virginia Point****Site information:**

Site Description: Tidal Entrance off Sportsman's Road

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3) **Map# 42**
NOAA chart # 11324, 11322 **County:** Galveston
Nearest ICW Marker: 357 **Date last visited:** 05-10-01

Access:

Closest Boat Ramp: Private ramp
Distance: ___ minutes
Boat type recommended: Shallow hull or airboat
Closest Airport: Scholes Field Airport GLS
Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: Low
Environmental: Habitat for fish, wading birds
Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-4 **Width of inlet:** 90 ft
Current: Medium **Water depth at mouth:** 2 ft

Safety / Cautionary notes:

Central Texas Coastal Geographic Response Plan
July 2001

Site Specific Information

Site # 24-H TGLO Polygon # 10 Quad Name Virginia Point

Site information:

Site Description: Representative channel of Tiki Island

Latitude: (b) (7)(F), (b) (3) Longitude: (b) (7)(F), (b) (3) Map# 42
 NOAA chart # 11324, 11322 County: Galveston
 Nearest ICW Marker: 357 Date last visited: 05-10-01

Access:

Closest Boat Ramp: Private ramp
 Distance: ____ minutes
 Boat type recommended: Shallow hull or airboat
 Closest Airport: Scholes Field Airport GLS
 Closest Helicopter Landing: Scholes Field Airport, (b) (7)(F), (b) (3)
 [REDACTED]

From MSU Galveston:

Trustees/ Contact Numbers: U.S.C.G. via NRC (800) 424-8802
 TXGLO via Hotline (800) 832-8224
 TNRCC (512) 463-7727

Resources at Risk:

Atlas Priority: High
 Environmental: Habitat for fish, wading birds, turtles, gulls, terns, crabs, shrimp
 Economic: N/A

Booming strategy recommendations:

Recommendations: Boom to protect sensitive marshes.
Number of personnel: 2-6 **Width of inlet:** 100 ft
Current: Medium **Water depth at mouth:** 8 ft

Safety / Cautionary notes: _____

**ORANGE-BRAZORIA AND ADDITIONAL AREA SENSITIVE
INFORMATION/MAPS**

SECTION 8G SENSITIVE INFORMATION/MAPS

TEXAS OIL SPILL PLANNING AND RESPONSE ATLAS BASE MAP INDEX

BRAZORIA BASE MAP

FREEDPORT – EAST MATAGORDA BAY INDEX MAP

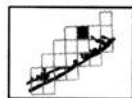
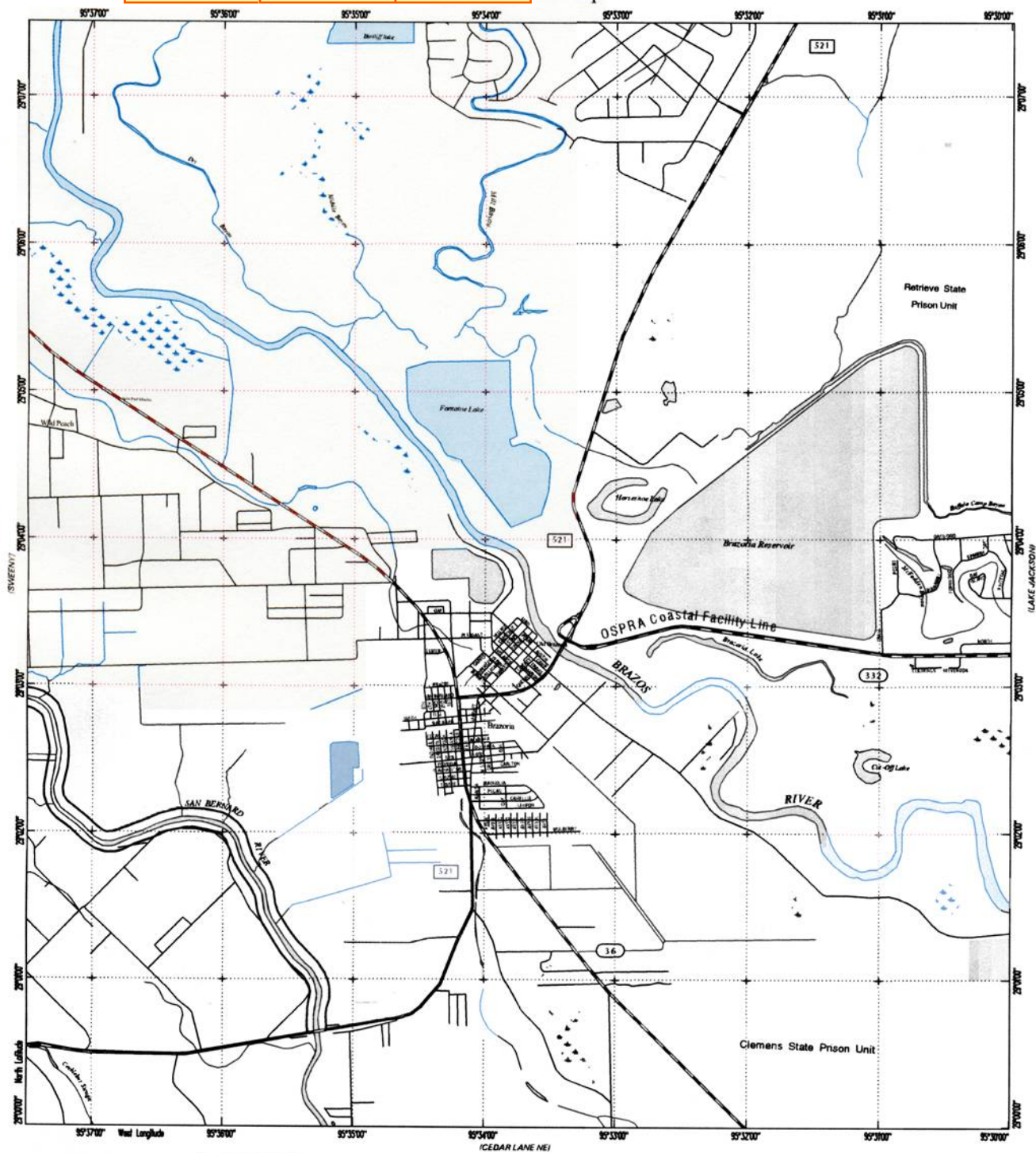
GALVESTON BAY SYSTEM INDEX MAP

ORANGE BASE MAP

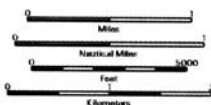
ORANGE ECHO

SABINE LAKE AREA INDEX MAP

SABINE PASS BASE MAP – PORT AUTHORITY SOUTH



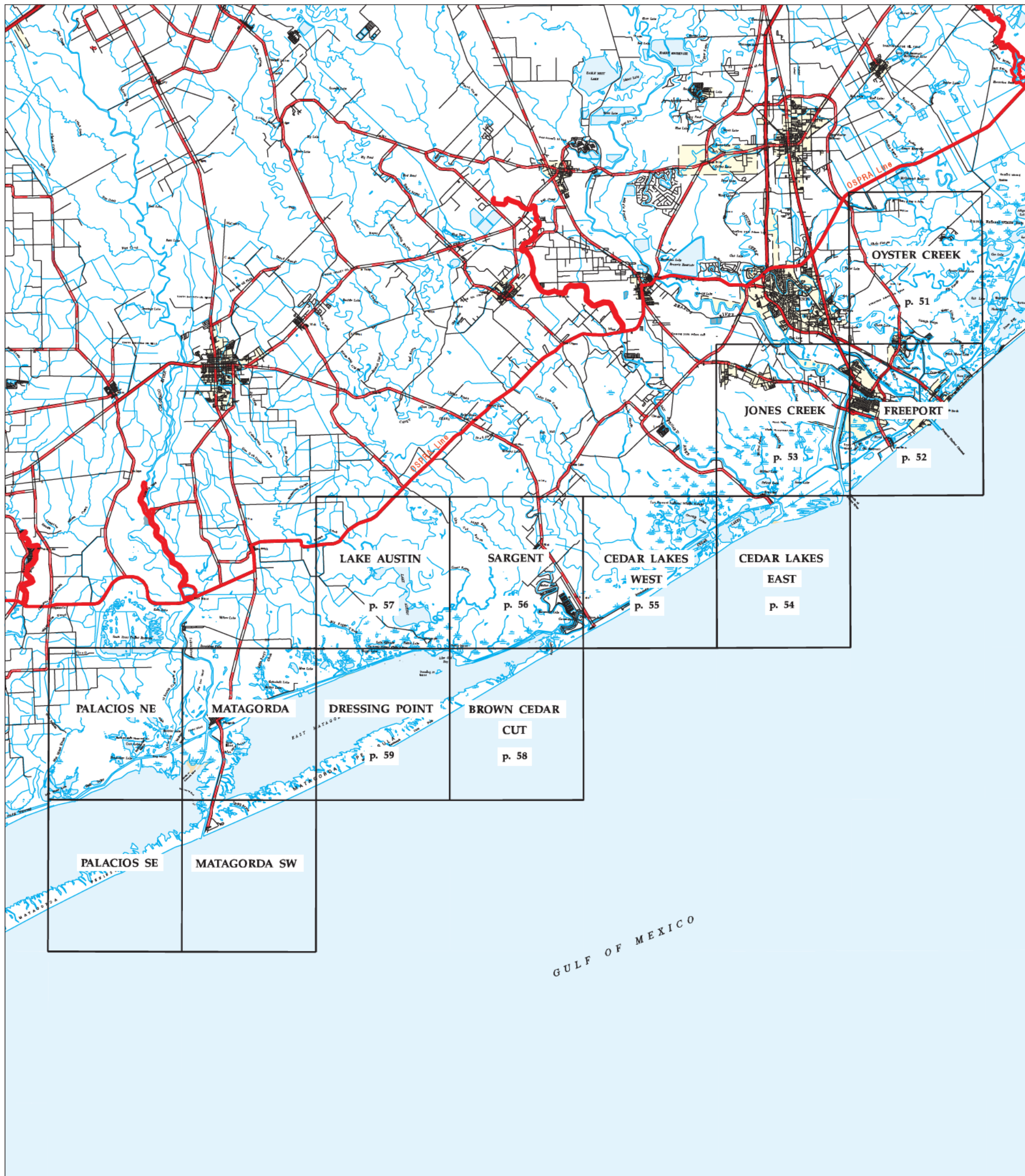
2895-211



Map Legend

- Lake, Bay, River
- Marsh, Wetland, Swamp
- Flats (Mud, Sand, Tidal)
- Divided Highway
TxDOT
- State/Federal Highway
TxDOT
- City Street/County Road
TxDOT
- OSRA Coastal Facility Designation Line
GLO

Freeport - East Matagorda Bay Index Map

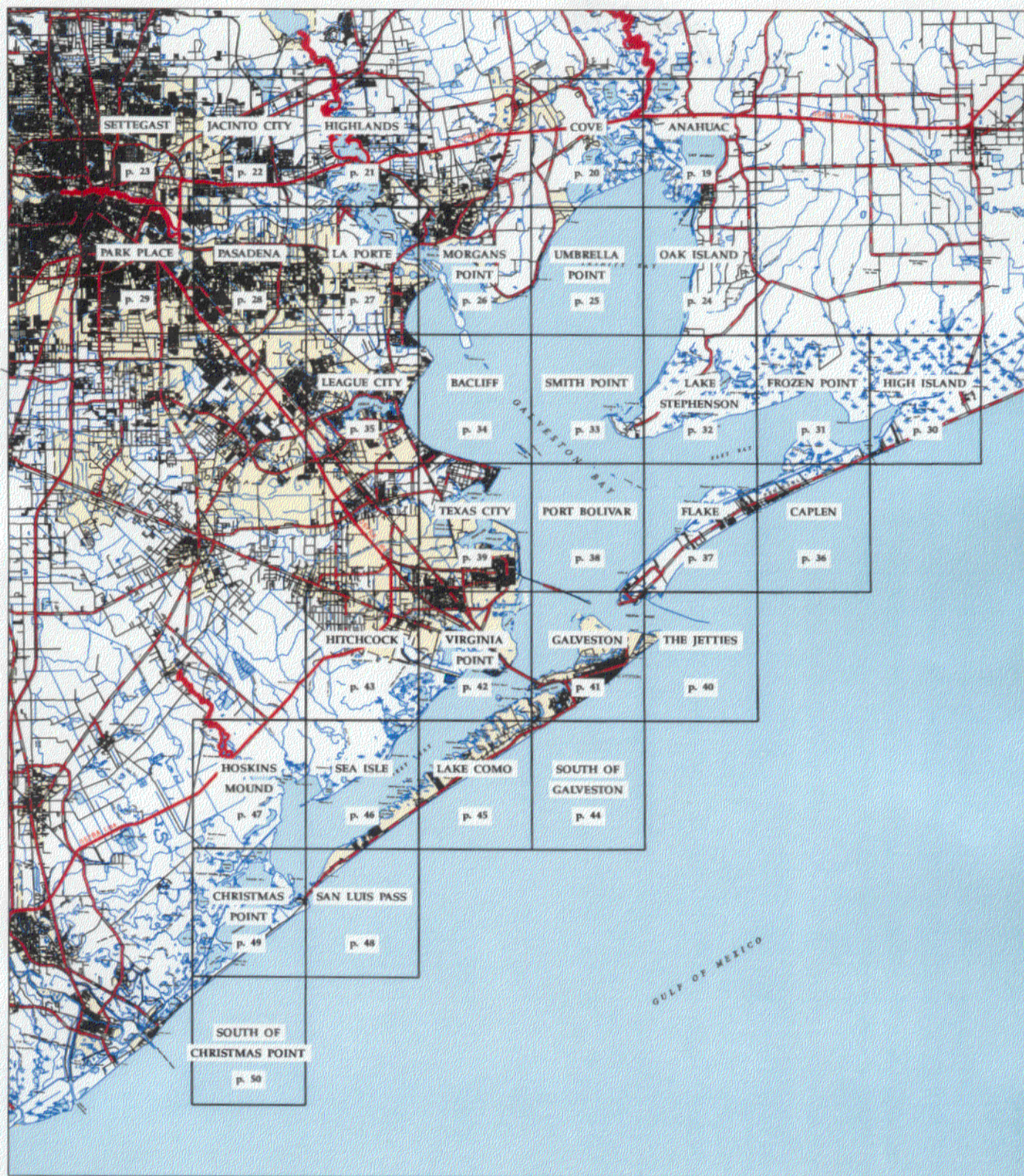


SCALE 1:370,320

One Inch represents 5.84 miles

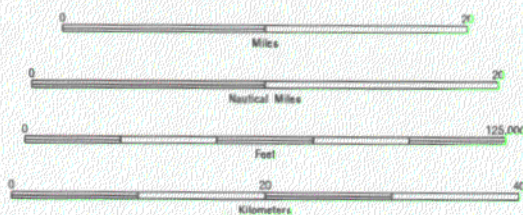


Galveston Bay System Index Map

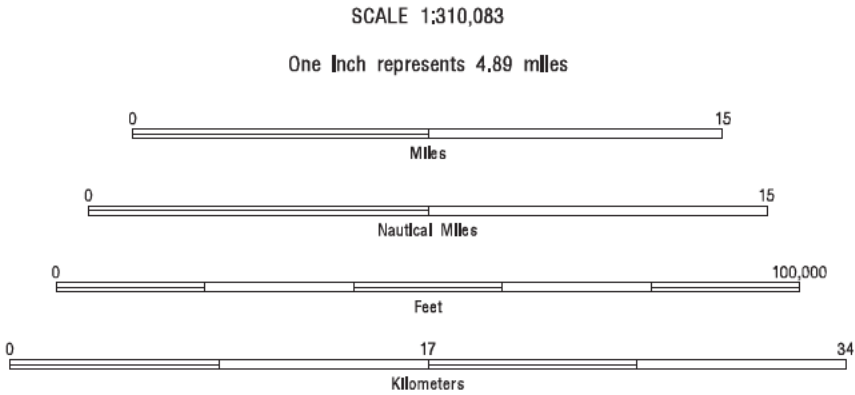
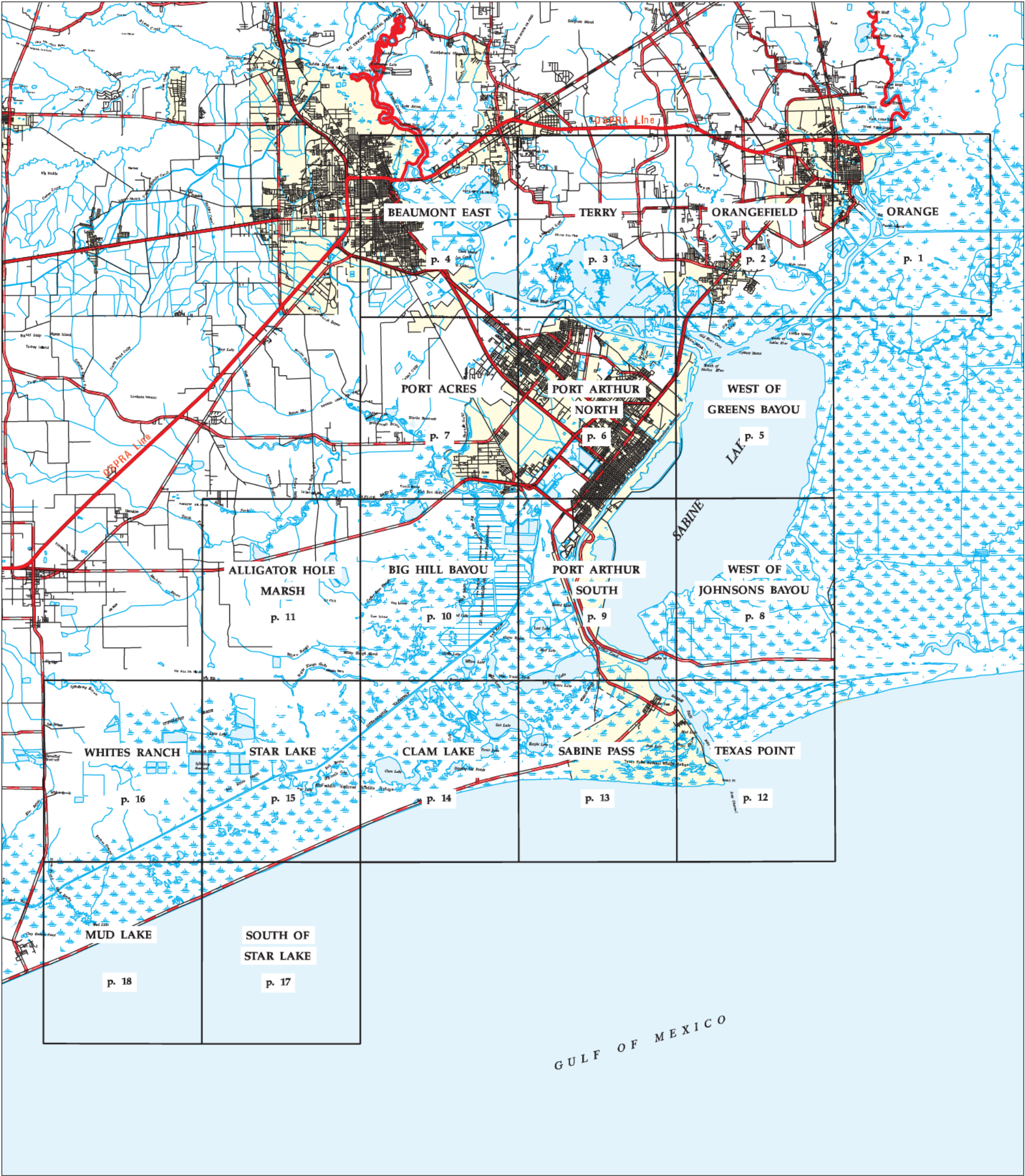


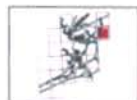
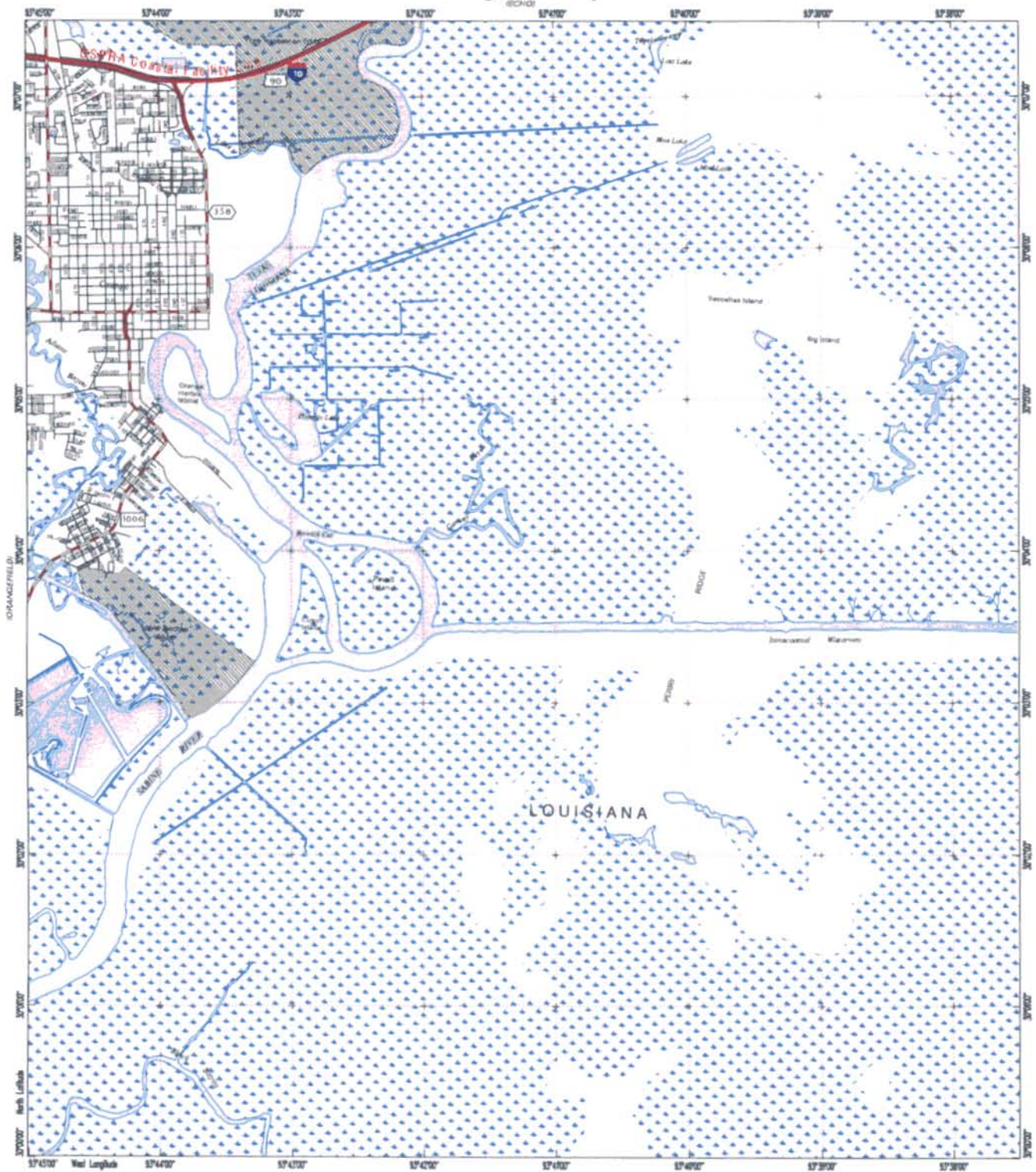
SCALE 1:436,444

One inch represents 6.89 miles



Sabine Lake Area Index Map





3093-212

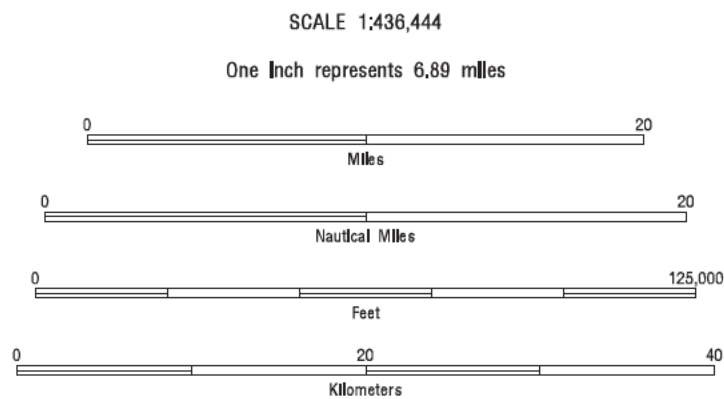
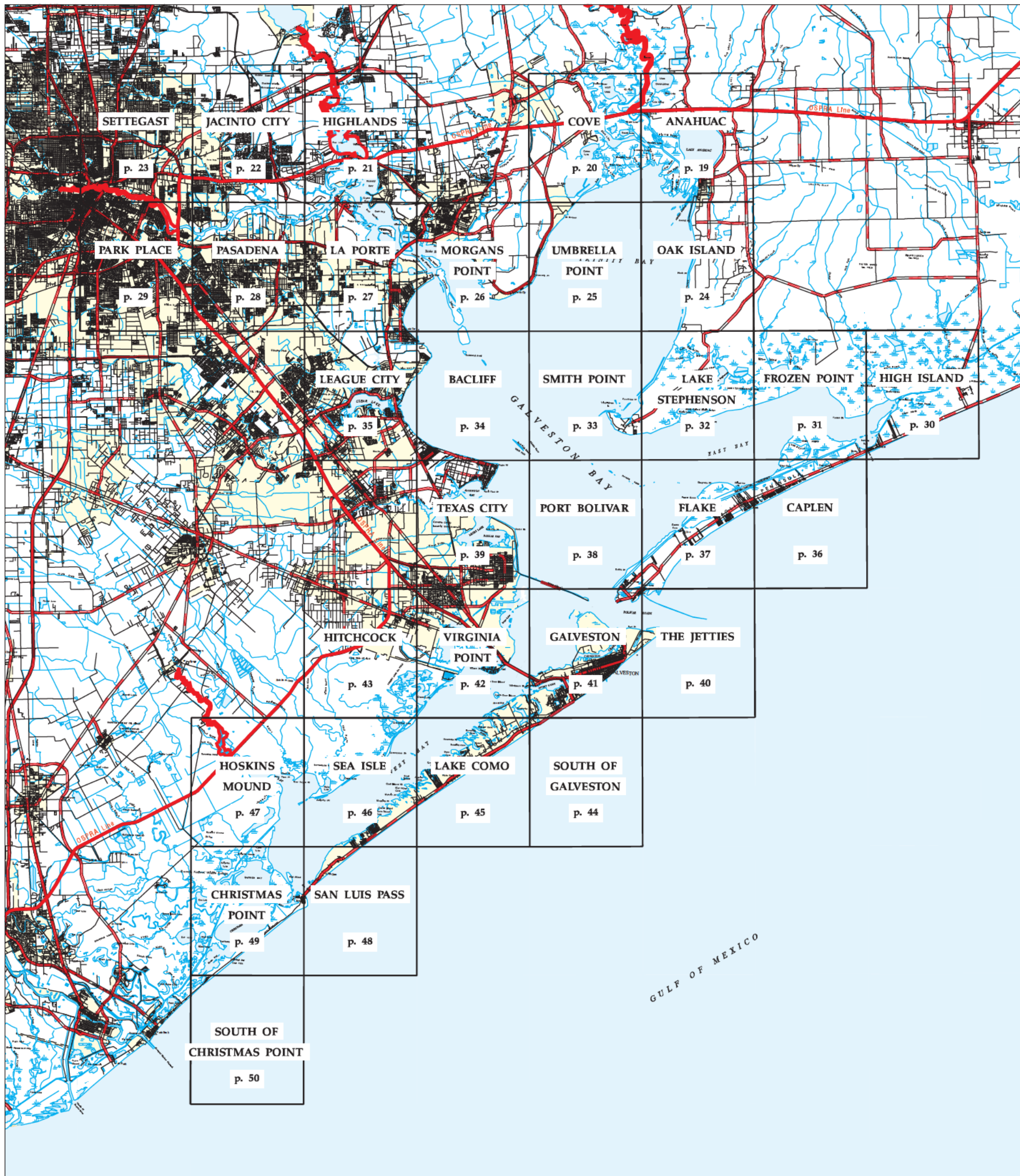


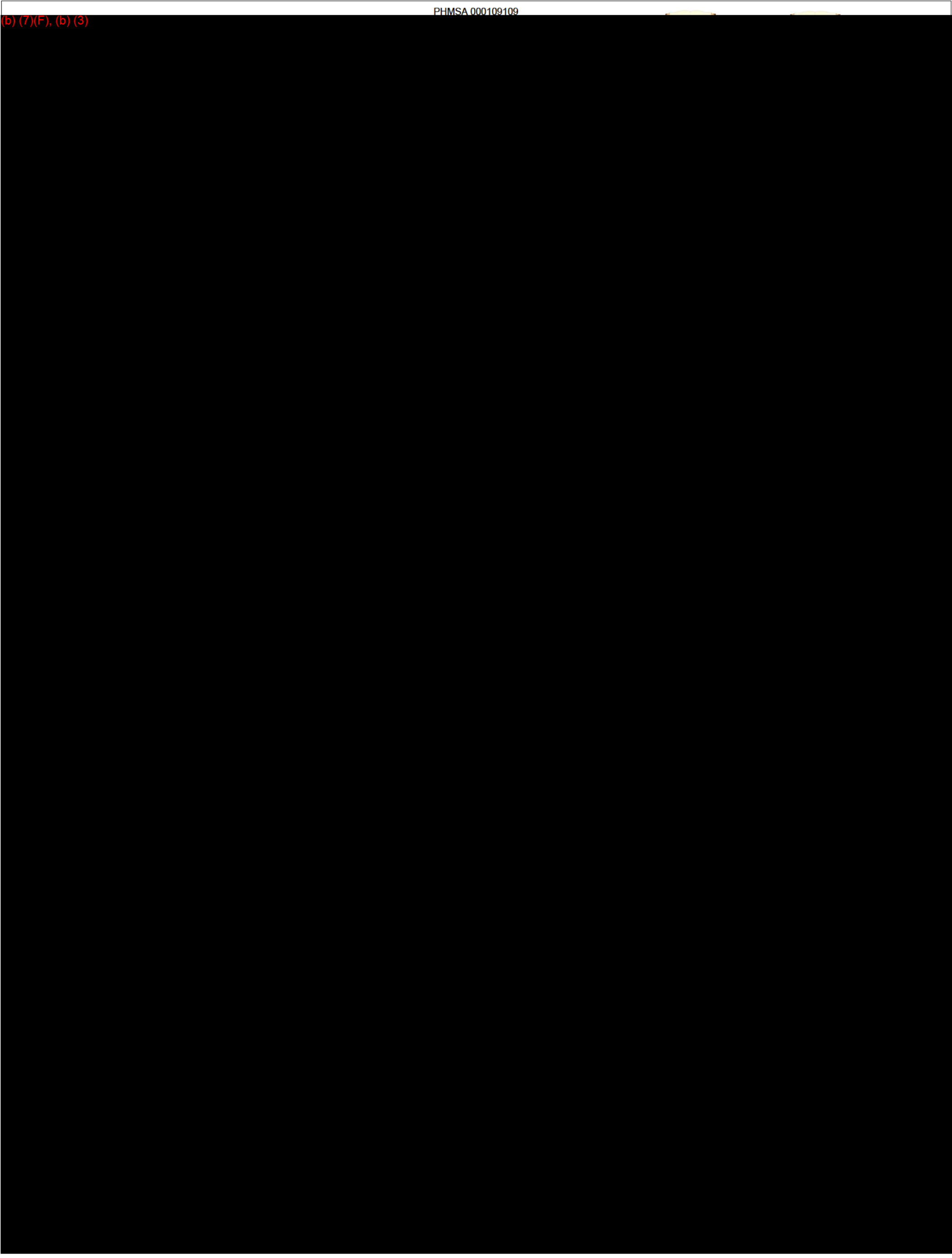
View Orange Response Map

Map Legend

- Lake, Bay, River
- Marsh, Wetland, Swamp
- Flats (Mud, Sand, Tidal)
- Conservation Area
- Divided Highway
- State/Federal Highway
- City Street/County Road
- OSPRM Coastal Facility Designation Line (CL)

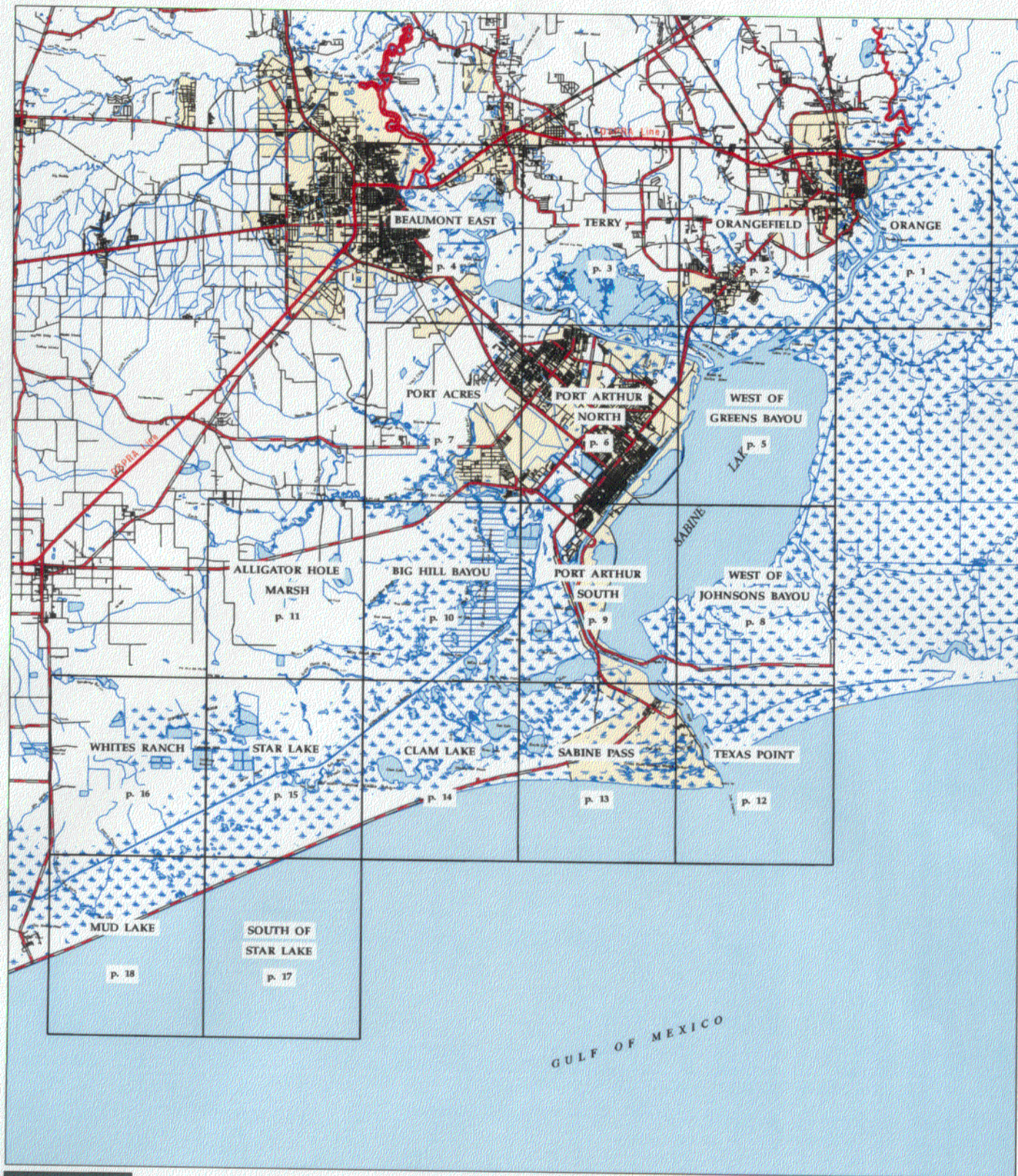
Galveston Bay System Index Map





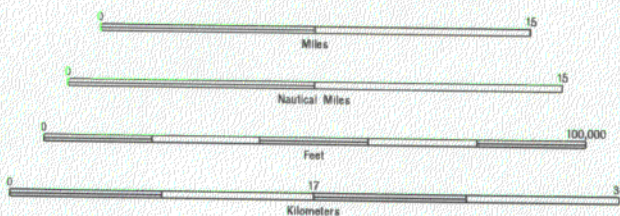
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Sabine Lake Area Index Map

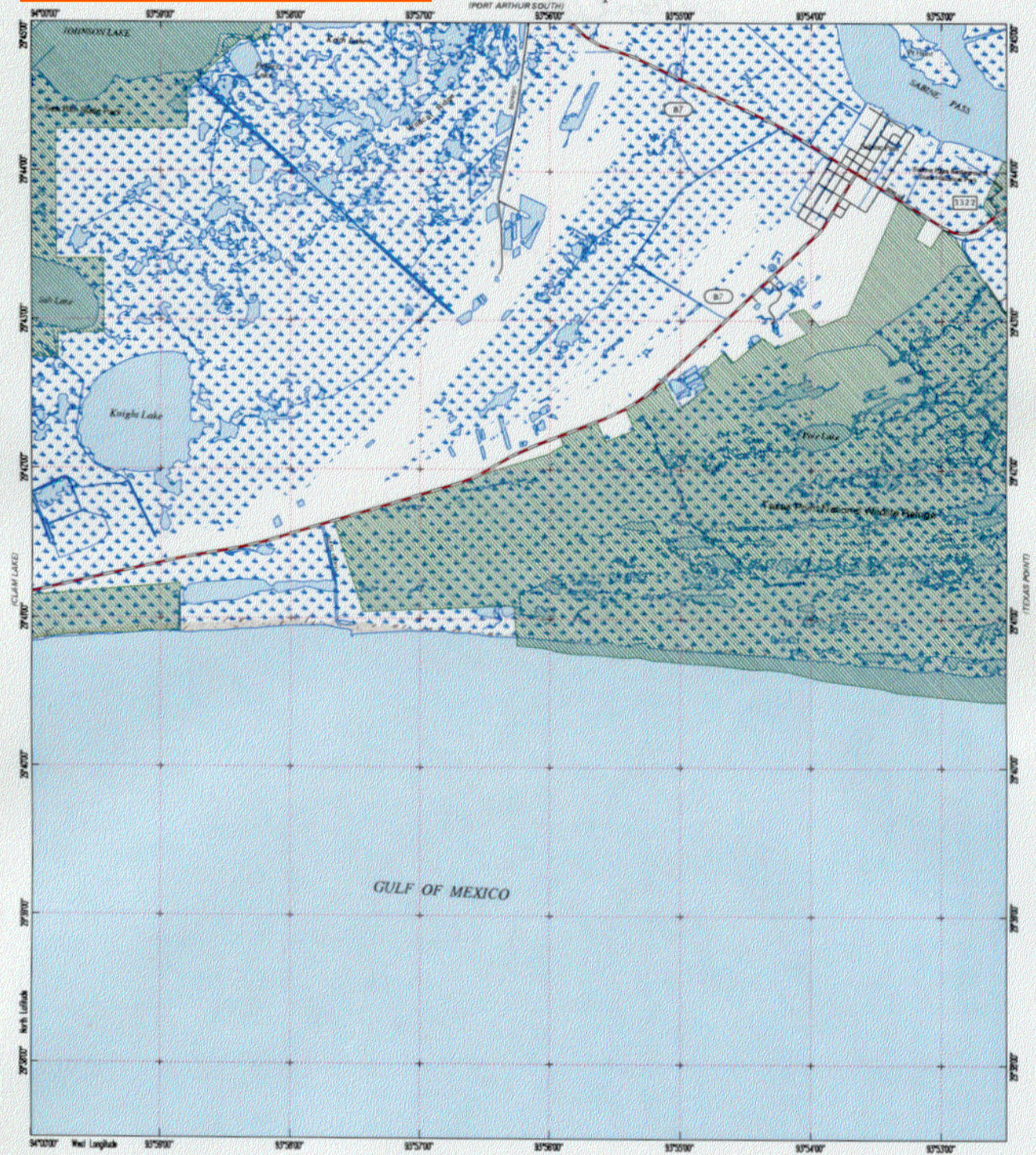


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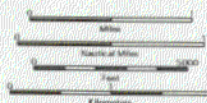
One inch represents 4.89 miles



Sabine Pass Base Map



2993-323



View Sabine Pass Response Map

Map Legend

- Lake, Bay, River
- Marsh, Wetland, Swamp
- Flats (Mud, Sand, Tidal)
- Beach, Bar
- Conservation Area
- Divided Highway
- State/Federal Highway
- City Street/County Road

HURRICANE PLAN

TEXAS STATE APPENDIX

SECTION 9
HURRICANE PLAN

SECTION 9 HURRICANE PLAN

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GENERAL INFORMATION/INSTRUCTIONS

Objective and Plan Organization

This Hurricane Plan is intended to provide a general plan of action to be followed in the event that a hurricane or tropical disturbance becomes active in the Gulf of Mexico or is likely to move into the Gulf of Mexico. The primary concern and immediate objective of this plan is to help ensure maximum protection of personnel and property and to provide for well-organized re-establishment of operations after the storm passes.

This manual has been organized to cover both pre and post hurricane information. Site-specific procedures, including checklists for shutdown and start-up procedures, appear in the various system Operations & Maintenance Manuals and/or local Hurricane Action Plans. Shutdown and start-up tasks have been categorized by function for ease of job assignment. Throughout the Hurricane Plan, these job functions appear in italics.

Phases of Hurricane Alert – Definitions

The Pipeline Operation Manager or designee, in conjunction with the FTLs, shall notify and announce to the Control Center (CC) the hurricane phases for their various geographic locations within the corridor. All areas will not be affected at the same time or in the same manner. Therefore, the declared phases may vary for different locations. To facilitate decision-making in each system, the Alert Weather Service forecast will be distributed by the CC to each FTL and work location via information dissemination.

Phase 1 - Alert Phase

- Possibility of hurricane entering Gulf of Mexico.
- Hurricane develops in Gulf of Mexico.

Phase 2 - Hurricane 72 hours away

- National Weather Bureau reports the “eye” of the hurricane to be a minimum of 72-hours away and approaching.

Phase 3 - Evacuation Phase

- Storm will critically affect the area.

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HURRICANE PLAN

Areas of Responsibilities During Hurricane Plan Implementation

Systems	Teams
Empire, West Bay, East Bay Empire to Pascagoula 20" Mainline Pumps {3 total (2 of which are alternated for operations and one to serve as a spare)}	Empire
Fourchon Empire to Pascagoula 20" Crude System	Fourchon
Beaumont Terminal SPR P/L	Beaumont Terminal
Forked Island Terminal VE38 P/L Freshwater Bayou P/L North Fresh Water Bayou P/L	Forked Island Terminal
TENDS	Henry Pipeline, Storage, Pipeline East, Henry Complex and Sour Lake
Bridgeline Holding	Henry Pipeline, Storage, Pipeline East and Henry Complex
Paradis Gathering	Pipeline East
Henry/Floodway Gas Gathering	Henry Pipeline
Sabine	Henry Pipeline and Sour Lake
Evangeline	Henry Pipeline and Sour Lake
HIPS	High Island Pipeline
Note: When other companies are involved, they shall be notified and will assist as needed with the implementation of hurricane procedures.	

COMMUNICATION

Effective communication is essential for safe shutdown/personnel evacuation and start-up. The GCR Emergency Telephone List is to be used in conjunction with this plan, particularly with reference to "Producer/Delivery Point Phone Numbers", "Emergency Assistance Telephone Numbers", "Emergency Special Services", and "List of Contractors".

Contact Points

The following communication centers and contingencies are developed to ensure ongoing communication of status and plans:

- Emergency Conference Bridge No. located in GCR Emergency Telephone List.
- Emergency Notification Network (ENN) - as a "final" contingency, a 24-hour line is available to ensure good communications within Region. Refer to this manual for information on the use of ENN. **ENN numbers are located on the last page of this Section.**

TEXAS STATE APPENDIX

SECTION 9
HURRICANE PLAN**Sample Messages**

Sample Messages for Managers and Team Leaders to use in Conjunction with CPL's ENN System.

1. Sample "Generic Greeting" to be used when no emergencies are in effect.

You have reached the Chevron Pipe Line Emergency Notification Network. In the event of an emergency such as a hurricane or other disaster, this "ENN System" was developed to allow area Team Leaders and Team Members to communicate with each other. This message will be updated periodically during an emergency to convey the status of operations and other useful information. Employees will be able to leave messages for their Team Leader on their whereabouts and when they plan to report to work. When you have finished leaving your message, please press "0#" and you will be connected with Chevrons Employee Emergency Line. Doing so will allow Chevron to better serve and account for each employee. If you have dialed this number in error or you do not intend to leave a message, please hang up now. <<Slight Pause>> Else, please wait until you hear the tone before leaving a brief message. Thank you.

2. Sample ENN "Outgoing Message" to be used when emergencies are in effect.

You have reached the Chevron Pipe Line Emergency Notification Network for the <<Name of Field Team>>. The <<Name of Facility>> will be evacuated and closed to non-essential personnel due to <<Reason for Emergency>>. <<Team Leader can ad-lib additional information here>>. I will update this message periodically to convey the status of operations, so please call back at least twice daily for the latest developments. If you have dialed this number in error or you do not intend to leave a message, please hang up now. <<Slight Pause>> Else, wait until you hear the tone before leaving your message. Be sure to leave me Your Name, Contact Phone Number, Physical Location, Expected Date for return to work, and a brief message. **Upon completion of your message, please dial "0#" which will connect you to the Chevron Employee Emergency Line.** Your first message allows your supervisor to account for you. The Chevron Employee Emergency Line provides Human Resources the ability to account for personnel across the organization. Thank you.

Employee Responsibilities

Employees should call their ENN contact number to provide a phone number where they can be reached by their TL.

Pipeline Operation Manger Responsibilities

The Pipeline Operation Manger will be responsible for coordinating overall effort and will provide a communications link with higher management levels and Public Affairs.

TEXAS STATE APPENDIX**SECTION 9
HURRICANE PLAN**

Emergency Notification Network

This network was developed to allow Team Leaders and Team Members to communicate during an emergency. During a Hurricane, this system will be used to convey pertinent information to all employees and to collect information on the availability of employees. See Emergency Notification Network (ENN) in this manual.

To access this system Employees should:

1. Dial into the appropriate toll free number according to your work location.
2. Leave a message at the tone that includes:
 - a. Name
 - b. Contact phone number
 - c. Physical location
 - d. Availability for return to work
 - e. Messages for your Team Leader

GENERAL HURRICANE PROCEDURES**General Pre-Hurricane Season Preparation Procedures**

The status of the following ongoing general measures should be checked in May of each year (prior to the start of the hurricane season in early June) and maintained throughout the hurricane season (through November).

Pipeline Operation Manger

- Coordinate updates to the General and System Specific Hurricane Plans.
- Ensure ENN and Emergency Conference Bridges are working.

Field Teams

- Review and update Hurricane Plans to account for facility modifications.
- Maintain good housekeeping. Properly secure or remove all loose or movable materials or equipment that is not in current use at the facility. Maintain a supply of items such as tape, rope, chain, binders, cable clamps and other material necessary to secure equipment.
- Check and if needed, repair all guy wires and tie-downs.
- Designate the minimum stock to be retained in crude oil tanks at each location. This amount will be determined by production rates, storage capacity and transportation requirements.
- Check all circulating pumps and maintain in good operating condition.
- Check stand-by generators for operational readiness.
- Keep water and fuel tanks full.
- Check to ensure that all communication equipment such as radios, batteries, battery chargers, antenna systems and RTU's are in good working order. Equipment used to receive weather information and special bulletins will also be checked for proper operation.

TEXAS STATE APPENDIX**SECTION 9
HURRICANE PLAN**

- Take all necessary precautions to adequately protect all company records and portable equipment.
- Make a list of all boats and floating equipment at each facility, including the most likely safe harbor during a storm.
- Check first-aid kits and restock them if necessary.
- TL's should participate in Hurricane Coordination meeting with customers.

Control Center (CC)

- Verify the Producer and Delivery Customer phone list.
- Fax the Producer and Delivery Communication Flowchart to Customers by June 1st.
- Coordinate the hurricane testing of Empire and Fourchon.
- Participate in the pre-hurricane coordination meeting.
- Monitor Alert Weather Service (on-line weather service) daily to track storm formation.
- Fax or email storm information to Fourchon, Empire, New Orleans, Pipeline East, Storage, Henry Pipeline / Henry Complex, Forked Island Terminal, Beaumont, Mont Belvieu, HIPS (Texas City) and Sour Lake.

HURRICANE CHECK LIST – GENERAL PLAN**Phase 1****Pipeline Operation Manger**

If Pipeline Operation Manger deems it to be necessary, based on storm tracking and intensity, a Remote Emergency Operations Center (EOC) may be established.

- Determine location of Remote EOC.
- Pipeline Operation Manger decides who will evacuate to the Remote EOC in Phase 3.
- Reserve sufficient hotel/motel rooms at the remote EOC location.

Field Team

- Initiate Phase 1 activities in Hurricane Action Plan.

Control Center (CC)

- Contact all the Delivery Customers to determine shutdown schedule.
- Monitor the weather on the intranet and weather channel.
- Update the FTL's with frequent weather advisories.
- Verify the Tank Levels at Empire and Fourchon.
- Producers will notify the CC of tentative plans.
- Start a "Producer Shutdown Log" to record producer communication and meter readings.

Bellaire Office Building

- Take all necessary precaution to adequately protect all company records and equipment.

TEXAS STATE APPENDIX

SECTION 9
HURRICANE PLAN**Information Dissemination--All Phases**

- Monitor radio/cable TV to track storm and local responses.
- Use Producer Shutdown Log for tracking customer status. (Refer to Emergency Telephone List for field office fax numbers)
- Get weather status data from CC and distribute to field offices as updates are received.
- Ensure that all Contact Point phone numbers shown on Producer Shutdown Log are accurate (i.e., verify them).
 - New Orleans
 - Contractors
 - Emergency Notification Network (ENN) **ENN numbers are located on the last page of this Section.**
 - Employee contact numbers are distributed to Team Leader's, CC, and Operations Manager
 - Other

Phase 2**Pipeline Operation Manager**

- Establish schedule of personnel movement for Phase 3.
- Collect times required to secure each facility for evacuation.

Field Teams

- Review Phase 1 checklist.
- Initiate Phase 2 activities in Hurricane Action Plan.
- Establish necessary communication with Parish Officials.

Control Center (CC)

- Call in extra manpower if needed to support Customer communications.
- Monitor the weather on the intranet and the weather channel.
- Update the FTL's with frequent weather advisories.
- Record all Producer shutdown plans in the "Producer Shutdown Log".
- Communicate approximate shutdown time to all Delivery Customers.
- Verify tank level readings with Fourchon and Empire Terminals.
- Follow established hurricane procedures concerning Chandeleur pipeline pressure.

Bellaire Office Building

- Move computers and related equipment away from exterior windows to interior offices. Keep equipment elevated and covered with something waterproof.
- Relocate valuables away from windows and place in elevated, interior locations.
- Take necessary precautions to adequately protect all company records.

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SECTION 9
HURRICANE PLAN

Phase 3

Pipeline Operation Manager

- Makes Phase 3 declaration.
- Establishes conference call schedule on Emergency Bridge Line.

Field Teams

- Review Phase 1 and 2 checklists.
- Initiate Phase 3 activities in Hurricane Action Plan.

Control Center (CC)

- Monitor the weather on the intranet and the weather channel.
- Update the FTL's with frequent weather advisories.
- Switch Empire and Fourchon Terminal to "Hurricane Mode".
- Record all Producer evacuations and log meter reading in "Producer Shutdown Log".
- Establish contact with the Covington Control Center, Callon's remote site (MO 908 & MS 73) and Chevron's remote site (MO 904).
- Activate the pump shutdown or ESD to all platforms that are shutdown and evacuated.
- Communicate shutdown times to all Delivery Customers.
- Isolate Pipelines, Tanks and Terminals when production shuts down.

Bellaire Office Building

- Review/check checklists from Phase 1 and 2.
- Close doors to offices when departing.
- Company employees should be available at their home telephone numbers. Otherwise, if contact information changes after evacuation of New Orleans, those employees should:
- Call the 24-hour Emergency Notification Network and leave a message giving update information. **ENN numbers are located on the last page of this Section.**

TEXAS STATE APPENDIX**SECTION 9
HURRICANE PLAN**

EVACUATE**Post Hurricane Re-Mobilization and Start-Up**

Pipeline Operation Manager

- Initiate Remobilization of Personnel.

Field Teams

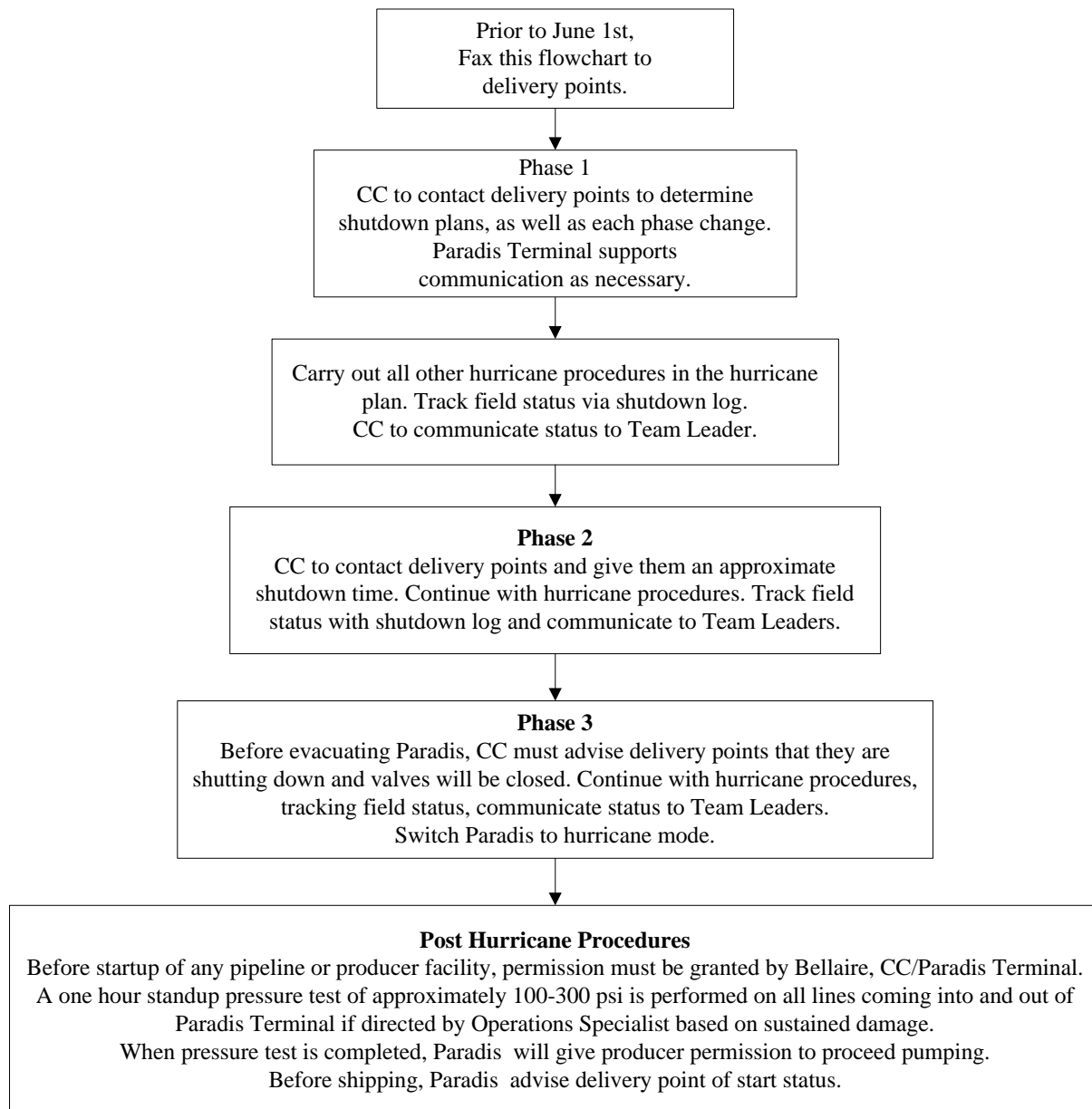
- Initiate Post Hurricane Start-up Procedures.

Control Center (CC)

- Establish contact with all the FTL's.
- Participate in post Hurricane meetings (assessing damage).
- Start a "Producer Startup Log" to track all Producers returning to the field.
- Ask the Producer for alternate phone numbers as they call in (If the primary phone service has been knocked down they may have a cell phone available).
- Will not allow any producer to startup until Pipeline integrity has been verified.
- Coordinate any Pipeline stand up tests that are deemed necessary.
- Bring on Delivery Customers as needed dependent on inventory levels.
- Follow established procedures if the communication has not been restored (verbal communication with manual line balance).

COMPANY'S DELIVERY POINT COMMUNICATION FLOWCHART

CONTROL CENTER (CC)

COMPANY'S DELIVERY POINT
COMMUNICATION FLOWCHART

CC Phone Number: 713-432-2310

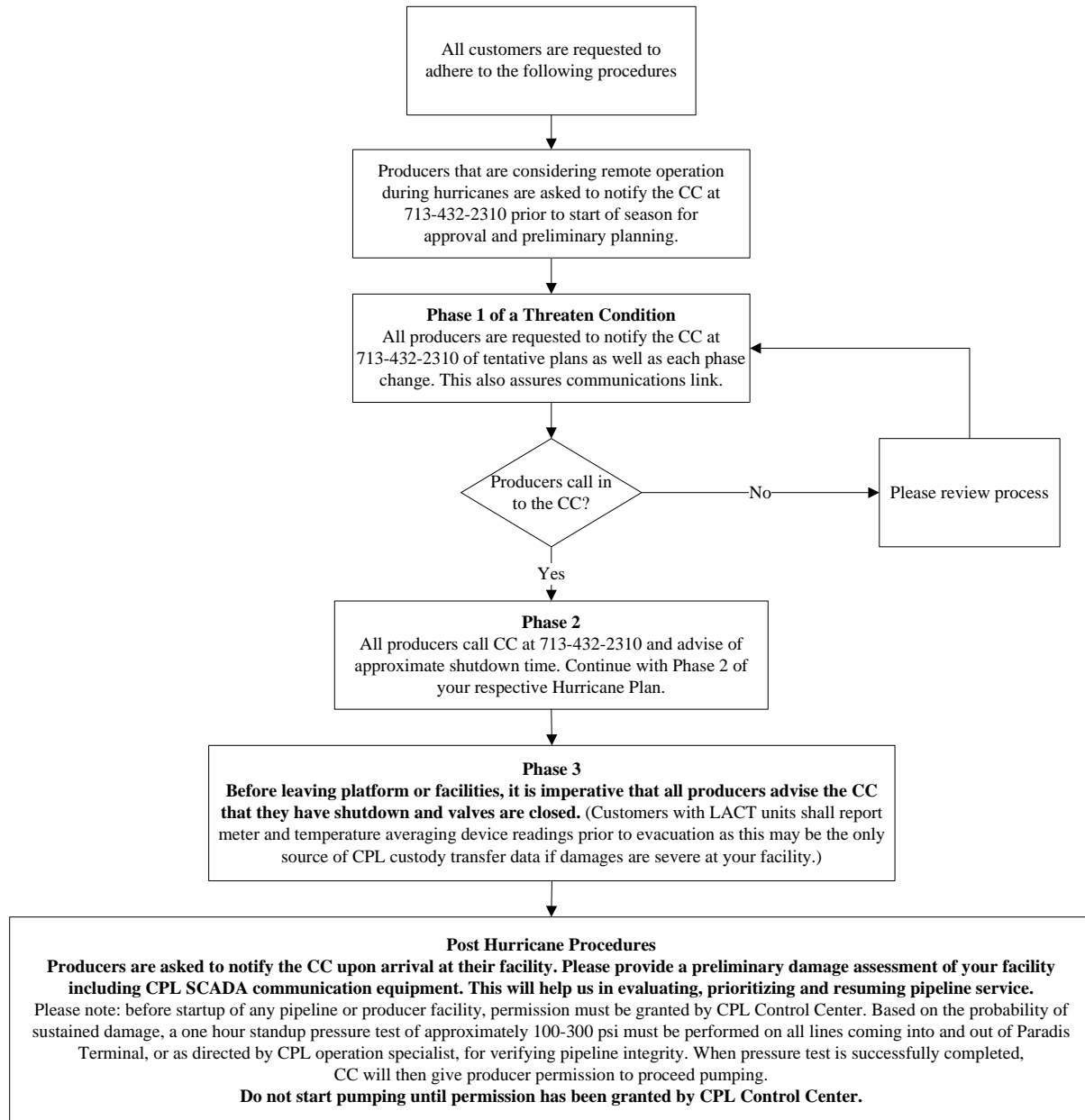
Fax Number: 713-432-2755

05/2011

TEXAS STATE APPENDIX

SECTION 9
HURRICANE PLAN

PRODUCER COMMUNICATION FLOWCHART

CHEVRON PIPE LINE COMPANY CONTROL CENTER (CC)
PRODUCER COMMUNICATION FLOWCHART

CC Phone Number: 713-432-2310
Fax Number: 713-432-2755
Satellite Phone Number: (b) (6)
Emergency Phone Number: 800-762-3404
Strategic Backup Cell Number: (b) (6)

05/2011

TEXAS STATE APPENDIX

SECTION 9
HURRICANE PLAN

ENN INFORMATION

Work Group ENN	
Assigned to	ENN System Phone Number
Asset Management Vice Presidents	1-877-812-4303
Asset Management - Gulf Coast Gas & Gas Liquids	1-877-812-4838
Operations	1-877-295-6922
Paradis	1-866-240-4312
Henry	1-877-312-5860
Sorrento	1-877-240-4313
Commercial	1-877-812-4304
HES	1-877-295-6924
Fld Engineering	1-877-812-4315
Asset Management - MidContinent	1-877-295-6924
TX Operations TL Card	1-877-295-6942
Wortham	1-877-295-6943
West Texas	1-877-295-6945
Sour Lake	1-877-687-7981
Mt Belvieu	1-877-202-0203
NW Operations TL Card	1-877-295-6946
Aitken Creek	1-877-295-6949
Boise	1-877-295-6960
Cook Inlet	1-877-295-6961
Pasco	1-877-218-3302
Rangely	1-877-218-3308
Salt Lake	1-877-218-3344
Piceance	1-877-218-3360
Commercial	1-877-218-3361
HES	1-877-218-3362
Field Engineering - Northwest	1-877-218-3363
Field Engineering - Texas	1-877-218-3364
Pipeline Operation Manager (3)	1-877-218-3365

TEXAS STATE APPENDIX

SECTION 9
HURRICANE PLAN

ENN Information - Continued

Work Group ENN	
Assigned to	ENN System Phone Number
Asset Management - California	1-877-218-3368
Operations - California	1-877-213-1175
San Joaquin	1-877-812-4831
Los Angeles	1-877-812-4832
Los Medanos	1-877-812-4834
Estero	1-877-213-1176
San Ardo	1-877-213-1178
HES	1-877-213-1180
Field Engineering	1-877-213-1181
Pipeline Operation Manager	1-877-213-1184
	1-877-213-1186
Asset Management - Gulf Coast Crude & Products	1-877-213-1187
Operations	1-877-213-1190
Beaumont (TL)	1-877-202-0617
Maintenance - Beaumont	1-877-213-1191
Operations - Beaumont	1-877-239-5260
Terminal Accounting - Beaumont	1-877-239-5268
Whitecap/Forked Island (TL)	1-877-202-0375
Fourchon	1-800-734-9461
Empire/Venice	1-800-734-9462
Commercial	1-877-239-5269
Fld Engineering	1-877-239-5272
HES	1-877-239-5306
Asset Management - Control Service Center	1-877-239-5307
Quality & Measurement	1-877-239-5308
CSC - Midcontinent	1-877-202-0302
CSC-Gas & Gas Liquids	1-877-202-0334
CSC-Crude & Products	1-877-202-0360
CSC-California	1-877-239-5309
Field Control	1-877-239-5313

TEXAS STATE APPENDIX

SECTION 9
HURRICANE PLAN

ENN Information - Continued

Work Group ENN	
Assigned to	ENN System Phone Number
Asset Management - Operations Standardization	1-877-239-5314
All Teams	1-877-218-1012
Business Development & Strategy Team Leaders (BDS)	1-877-218-1014
BDS / Business Development North America	1-877-812-4840
BDS / Deepwater Portfolio	1-877-812-4839
BDS / International	1-877-812-4316
BDS / Manager Engineering Scoping	1-877-812-4841
BDS / Non-Operated Joint Ventures	1-877-218-1016
BDS / Strategic Planning	1-877-812-4323
Finance (Team Leaders/Direct Reports)	1-877-587-2647
Comptroller (Team Leaders/Direct Reports)	1-877-218-1017
Decision Support	1-877-218-1019
Plant & Pipeline Accounting	1-877-218-1020
	1-877-218-1050
Supply Chain Procurement	1-877-218-1104
Regulatory	1-877-218-1106
IT & SCADA Systems Team Leaders (IT)	1-877-812-4314
SCADA Systems	1-877-659-1625
IT / Business Systems Development & Support	1-877-218-1120
IT / Information Mangement	1-877-659-1628
IT / Network Infrastructure & Security	1-877-812-4322
IT / Systems Architect	1-877-744-1271

TEXAS STATE APPENDIX

SECTION 9
HURRICANE PLAN

ENN Information - Continued

Work Group ENN	
Assigned to	ENN System Phone Number
Legal	1-877-812-4317
Pipeline Services and Standards Team Leaders (PS&S)	1-877-744-1273
PS&S / Asset Integrity & Reliability	1-877-812-4829
Lead Risk Specialist	1-877-744-1274
Data, Documents & GIS	1-877-744-1275
Lead Pipeline Integrity	1-877-744-1276
Reliability Supervisor	1-877-744-1277
PS&S / HES	1-877-812-4835
PS&S / Organizational Capability	1-877-744-1278
PS&S / Process Standardization / OE	1-877-744-1279
PS&S / Right-Of-Way Team	1-877-812-4836
PS&S / Technology	1-877-744-1280
Deepwater Technical	1-877-744-1281
Instrument & Electrical	1-877-259-0965
Engineering	1-877-259-0971
PLT / Human Resources / Public Affairs	1-877-812-4302
Project Management Team Leaders (PM)	1-877-259-0974
PM / Construction Management	1-877-259-0977
PM / Project Services	1-877-259-0978
Project Services	1-877-259-0979
Design & Drafting	1-877-259-0983
PM / Piceance	1-877-259-0984
PM / Projects	1-877-259-0985
PM / Projects (Posted)	1-877-259-0987
PM / San Ardo	1-877-647-3410

HURRICANE PLAN – BEAUMONT, TX

HURRICANE PROCEDURES -

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HURRICANE PROCEDURES -

APPENDIX 1

INTRODUCTION

Hurricanes, prevalent along the Gulf Coast, can disrupt the living and working patterns of industrial workers. Emergency procedures are established to minimize the anxieties of employees, protect lives, property and jobs; minimize downtime and cost; establish job assignments and authority for decision-making.

Except for pre-hurricane planning, it is impossible to set up a timetable of events. Decisions must be made based on weather information which must be accepted and considered as factual in order to serve as a basis and timetable for precautionary activities.

Based on best available weather information, the decision to take action must be made early enough to provide sufficient lead time to accomplish outside work before winds are sustained above 45 mph.

The HURRICANE COMMITTEE will establish timetables, preparation, evacuation, call back, initial damage assessment, and recovery timetables. These decisions are/will be based on the HURRICANE PHILOSOPHY, previous storm experience, initial weather reports, observing the storm, knowledge of operation's shutdown times, and employee personal obligations.

The EMERGENCY ORGANIZATION CHART, of which the HURRICANE COMMITTEE is a part, is established so that plans for HURRICANE ALERTS will go into effect without the need of the Manager, Beaumont Terminal presence or approval. Terminal management will delegate all authority with the exception of the decision to either shut down or continue operations.

HURRICANE PHILOSOPHY

Based on historical Gulf Coast hurricanes, it is likely there may be as little as 12 hours time prior to experiencing hazardous winds in which to shut down and evacuate the Terminal.

The Manager, Beaumont Terminal/Designee will make the decision to order any facility shutdown.

Preparations for protection of equipment and personnel will precede the shutdown by 12 to 24 hours based on the direction and intensity of the hurricane.

This procedure defines actions necessary to prepare the Terminal and personnel for the arrival of a hurricane/tropical storm.

HURRICANE PROCEDURES -

APPENDIX 1

ORGANIZATION

HURRICANE COMMITTEE

The Hurricane Committee shall meet prior to April 1 of each year to review and confirm HURRICANE PROCEDURES for the current season, to discuss pre-season preparedness, preliminary alert preparations, and hurricane operations.

The HURRICANE COMMITTEE is composed of the following members:

Chairman - Manager, Beaumont Terminal
Safety Specialist, Beaumont Terminal
Electrical Engineering, Technician
Environmental Specialist (Air)
Environmental Specialist (Waste/Water)
Supervisor, Accounting
Operations Supervisor
Maintenance Supervisor
Office Assistant (OA)

Responsibility and Authority

It is the responsibility of this committee to:

- 1) Keep these procedures up to date and employees informed on relevant parts of the procedure.*
- 2) Make an estimate of the hurricane conditions and hurricane probabilities.*
- 3) Oversee preparations.*
- 4) Establish timetables.*
- 5) Coordinate shutdown, evacuation, call back, define initial damage assessment, and initiate recovery preparations.*

EMERGENCY ORGANIZATION & RESPONSIBILITIES

Manager, Beaumont Terminal

- Chairman of Hurricane Committee.
- Announces Terminal shutdown and return to work.
- News/information releases to employees and the public.
- Keep Emergency Notification Network updated
- Ensure annual review of plan with Hurricane Committee
- Ensure contractors and equipment for emergency response is available with contact information in the event of evacuation.

Supervisor, Operations

- Ensure timely cessation of operations.
- Ensure that all operating areas are secure.
- Ensure measures are taken to guarantee safety of personnel.
- Ensure contact information available for consultation while evacuated.

Safety Specialist, Beaumont Terminal

- Update terminal hurricane procedures.
- Weather tracking, and assimilation and distribution of weather information
- Maintain historical data and compile the data into a single historical record of the timetables, schedules, and events of the emergency. This record shall include events that occurred prior to, during, and after the storm. Periodic data and the complete record shall be turned in to the Chairman of the Committee.
- Maintains adequate maps and charts, and posts copies of all weather reports on employee bulletin boards. Liaison with local law and civil defense (Jefferson County Emergency Management) authorities.
- Provide updates of area/county evacuation plans

HURRICANE PROCEDURES -

APPENDIX 1

- Emergency communications. (radios, sat phones etc)
- Ensure contact information available for consultation while evacuated.

Maintenance Supervisor

- Oversee all precautionary measures to protect Terminal assets and equipment.
- Contract guard staffing.
- Designate parking for vehicles/equipment and insure same.
- Protection of all computer equipment.
- Secure waste containers.
- Ensure contact information available for contractors for work that may need to be done before full return to normal operations.
- Ensure contact information available for consultation while evacuated.

Environmental Specialist, (Waste/Water)

- Develop waste container minimization plan
- Expedite excess container removal from site.
- Ensure contact information available for consultation while evacuated.

Environmental Specialist, (Air)

- Insure contact information available in the event there is a release to air
- Develop plan for start-up
- Apply for extensions as anticipated (before and after evacuation)
- Protect critical records (possibly remove from site)
- Ensure contact information available for consultation while evacuated.

Accounting, Supervisor

- Notify customers of terminal status and obtain updated contact information
- Assist Safety Specialist, Beaumont Terminal in tracking weather and communication of same.
- Assist in updating plan
- Protect office equipment in Accounting/Oil Movements department and Mail Room.
- Ensure final server backup is requested and is completed by BOB personnel.
- Ensure contact information available for consultation while evacuated.

Office Assistant (OA)

- Protection of all office supplies, and office equipment in the T&E Building, except engineering records and drawings and inspection records.
- Maintains ample supplies of emergency equipment, i.e., flashlights, batteries, rain gear, rope, etc.
- Food and supplies for returning Hurricane Team
- Location Log for employee's evacuation and return.

General

- All temporary trailers shall be secured by the proprietors.
 - Each supervisor in charge of a department is responsible for submitting to the Supervisor, Accounting, a list of where their people plan to be during the storm event. Direct Reports are to keep the Office Assistant (OA) apprised of their destination and availability. All employees are responsible for updating the Employee Notification Network.
-

HURRICANE PROCEDURES -

APPENDIX 1

GENERAL INSTRUCTIONS

During hurricane season, June 1 through November 1, Field Audits/inspections/visits should include special attention to items that could pose problems during high winds.

1. General preparations will begin as soon as there is the possibility of a storm impacting the terminal. Everything must be secured in a timely manner to insure personnel have adequate time to evacuate if necessary.
2. All Terminal personnel will be released prior to the storm's arrival.
3. Essential employee identification badges will be issued by the Safety Specialist, Beaumont Terminal and or the Manager, Beaumont Terminal.
 - Anyone issued an Essential Employee Identification badge is not to use the badge for re-entry unless approved by the Manager, Beaumont Terminal.
4. **All Supervisors will be required to remain available if a storm watch is issued unless released by the Manager, Beaumont Terminal.** (Announcement will be made by the Manager, Beaumont Terminal/Hurricane Committee.)
5. The Safety Specialist, Beaumont Terminal will be civil defense coordinator and will act as liaison with Jefferson County Emergency management officials. The Manager, Beaumont Terminal will appoint an alternate in his absence.
6. All Direct Reports will report to the Manager, Beaumont Terminal 48 hours, 24 hours and 12 hours ahead of the projected arrival of the storm. This report will state the degree of readiness of the Terminal.

CAUTION -- High wind and heavy rain are almost a certainty during this operation. Extra care should be taken to prevent loss to people, property or the environment.

RETURN TO WORK PROCEDURES

Prior to being released from the Terminal, each employee must inform their immediate supervisor of their evacuation plans and leave contact telephone numbers if possible. Each employee is to make notification to the Employee Notification Network. Additional notification is also required when status changes.

If not scheduled to return to work within 24 hours after ALL CLEAR is given, employees are to notify immediate supervisor of availability to report to work. All personnel are expected to return on their next scheduled shift commencing eight hours or more after the ALL CLEAR is given by area Emergency Management Officials.

If extenuating circumstances prevent return as scheduled, make notification to the ENN (Emergency Notification Network). Also notify your immediate supervisor or the Supervisor, Accounting (724-3226) as soon as communications are restored. If neither of the above are available, contact the Main Gate at (409) 722-3441 and select the option to speak to an Operator.

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS – ELECTRICAL (ASSIGNED BY SUPERVISOR, MAINTENANCE)

Date _____

(For Assignment)

Assigned To: _____

Verified By: _____

ACTION ITEMS	
PRIOR TO HURRICANE SEASON	
<input type="checkbox"/>	Secure an electrical contractor bucket truck and crew to provide standby and assistance as needed before, during and after hurricane.
<input type="checkbox"/>	Verify contractors have protected shacks and secured equipment
PENDING STORM	
<input type="checkbox"/>	Secure and protect all engineering records, drawings and equipment.
<input type="checkbox"/>	Collect all engineering drawings (tracings) from engineers and draftsman offices and file in vault.
<input type="checkbox"/>	Collect all tracings at blueprint machine and file in vault.
<input type="checkbox"/>	File tracings in proper place or place in empty cabinet drawers. No tracings should be left on top of cabinets.
<input type="checkbox"/>	File all engineering materials in engineer's desk and file cabinet.
<input type="checkbox"/>	Ensure adequate emergency generators, cords etc. are available and appropriately staged.
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
12 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Close and lock vault door after all tracings are secured
<input type="checkbox"/>	Close and lock all T&E Office doors.
POST HURRICANE	
<input type="checkbox"/>	Assess area and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS - ELECTRICAL (ASSIGNED BY THE SUPERVISOR, MAINTENANCE)

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

ACTION ITEMS	
PRE-EVACUATION	
<input type="checkbox"/>	Shutdown Foxboro and stow equipment prior to de-energization of terminal.
<input type="checkbox"/>	Shut down all electrical power to the Terminal at the instructions of the Manager, Beaumont Terminal
<input type="checkbox"/>	Ensure adequate supply of electrical hand tools, batteries and charges are available for use after evacuation.
POST HURRICANE	
<input type="checkbox"/>	Assess area and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS – PIPELINE, TECHNICIAN

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

ACTION ITEMS	
PRIOR TO HURRICANE SEASON	
<input type="checkbox"/>	Notify contractors to protect shacks and secure equipment.
<input type="checkbox"/>	Ensure an adequate supply of gas cans for use after storm.
<input type="checkbox"/>	Secure shacks, dumpsters and any loose material in facility
<input type="checkbox"/>	Ensure adequate supply of tools (general maintenance tools, shovels, rakes etc.) are available after evacuation.
<input type="checkbox"/>	Ensure vacuum truck is staged for use after evacuation with keys also available.
<input type="checkbox"/>	Ensure access to contractor buildings are available after evacuation.
<input type="checkbox"/>	Collect ALL contractor hand held radios, batteries and chargers and store for storm. Notify Location to Safety Specialist
POST HURRICANE	
<input type="checkbox"/>	Assess area and report damages to Supervisor, Maintenance.
<input type="checkbox"/>	Monitor Pipeline ROW (excavation without one-call)
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.
<input type="checkbox"/>	
<input type="checkbox"/>	

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS - OFFICE ASSISTANT (OA)

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

ACTION ITEMS	
PRE-HURRICANE SEASON	
<input type="checkbox"/>	Review and update hurricane supply list by April 15 each year.
<input type="checkbox"/>	Secure the hurricane supplies by May 31 each year. Label the following supplies "Hurricane Use Only" 25 Cases Drinking Water 48 – 3 gallon bottled waters Electrolyte drink mixes 12 Flashlights (use flashlights used by operators) 4 Fluorescent Lanterns w/ batteries 2 Cases (each type) batteries for equipment used 4 Reels 1/2" Rope 4 Reels 3/8" Rope 4 Reels 5/8" Rope 1 Case Gloves 15 Pairs Safety Glasses (Clear) 15 Slicker Suits 1 dozen various size safety toed rubber boots 4 pr. Safety toed chest waders (sized to fit crew) 10 Rolls 2" Masking Tape 4 Rolls Polyethylene 12 large tarps (various sizes) 2 Gasoline Cans(empty) First Aid supplies Paper/plastic products (including sanitizing wipes) Bedding, linen and towels etc. for on-site personnel File boxes for off-site storage during storm Non-perishable food to last 1 week for 6 people. Bug repellent/sun screen/yard guard Cleaning supplies
<input type="checkbox"/>	Establish minimum supply of spare batteries and chargers. (cell phone, hand tools, radios, Nextel phones)
48 HOURS IN ADVANCE OF LANDFALL	
<input type="checkbox"/>	General Cleanup
<input type="checkbox"/>	Review Plans
24 HOURS IN ADVANCE OF LANDFALL	
<input type="checkbox"/>	After receiving Employee Contact List, distribute to Direct Reports.
<input type="checkbox"/>	Secure and protect all office supplies, office equipment in T&E Building. Exceptions: Engineering records, drawings and inspection records.
POST HURRICANE	
<input type="checkbox"/>	After danger has passed and normal operations are restored, have stocks replenished.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS – SUPERVISOR, MAINTENANCE/COMPUTER TECHNICIAN

Date _____

(For Assignment)

Assigned To: _____

Verified By: _____

ACTION ITEMS	
PRIOR TO HURRICANE SEASON	
<input type="checkbox"/>	Verify backups are current
PENDING STORM	
<input type="checkbox"/>	Verify backups are current
24 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Authorize turning off and unplugging computer terminals and associated equipment
<input type="checkbox"/>	When PCs are turned off notify Houston to perform final complete backup of servers.
<input type="checkbox"/>	Cover all PC's with polyurethane plastic for protection
<input type="checkbox"/>	Remove all laptop computers prior to Evacuation
12 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Disconnect and move server rack to blueprint vault.
<input type="checkbox"/>	Deliver backup to Supervisor, Accounting
POST HURRICANE	
<input type="checkbox"/>	Assess area and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS - Safety Specialist

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

ACTION ITEMS	
PRIOR TO HURRICANE SEASON	
<input type="checkbox"/>	Update all sections of Hurricane Procedures and keep updated during hurricane season.
<input type="checkbox"/>	Conduct annual review meeting for Hurricane Procedures.
<input type="checkbox"/>	Track pre-season compliance with Hurricane Procedures.
<input type="checkbox"/>	Discuss hurricane preparations with Security Contractor Management by May 1.
<input type="checkbox"/>	Set up reporting system with Security Guards on status of all radios.
<input type="checkbox"/>	Insure designated employees are issued Chevron Essential Employee badges.
PENDING STORM	
<input type="checkbox"/>	Track tropical storm/hurricane, and advise Manager, Beaumont Terminal based on Probability schedule.
<input type="checkbox"/>	Maintain historical data, maps, charts, etc. recording storm.
<input type="checkbox"/>	Determine status of storm preparations at each stage of preparations.
48 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Monitor safety of general cleanup with special attention to high wind.
<input type="checkbox"/>	Ensure/prepare Main Gate for emergency service.
24 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Ensure locks and chains are available for all exterior gates.
12 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Keep Manager, Beaumont Terminal advised of status.
<input type="checkbox"/>	Secure Safety vehicles, records and equipment. (Safety vehicles to be located in area designated by Maintenance Supervisor).
<input type="checkbox"/>	All non-essential gates must be secured (Gates 12, 13, 14, 20A, 20C, and Railroad Gates).
<input type="checkbox"/>	Cover electronic equipment and remove gate computer to designated area.
<input type="checkbox"/>	Secure Guard Houses and the Security Office. Police immediate areas for materials that might be blown away. Locate Security vehicles in designated area.
<input type="checkbox"/>	Review Employee Contact List with Manager, Beaumont Terminal (to be provided by Supervisor, Accounting and Office Assistant (OA)).
<input type="checkbox"/>	Lock front gates.
<input type="checkbox"/>	Perform service check on the following:
<input type="checkbox"/>	WSR-575 In-Plant Emergency System
<input type="checkbox"/>	KYF-360 Mutual Aid System
<input type="checkbox"/>	Emergency Light System
<input type="checkbox"/>	Emergency Portable Generator
POST HURRICANE	
<input type="checkbox"/>	Assess areas and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

HURRICANE PROCEDURES -**APPENDIX 1****PROCEDURES & CHECKLISTS - SUPERVISOR, ACCOUNTING**

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

ACTION ITEMS	
PRE-HURRICANE SEASON	
48 HOURS IN ADVANCE OF LANDFALL	
<input type="checkbox"/>	Work with CSRs to insure customers are updated and post hurricane communication procedures are in place to ensure effective communications after storm.
24 HOURS IN ADVANCE OF LANDFALL	
<input type="checkbox"/>	Secure buildings, records and equipment for Accounting and Oil Movements departments and Mail Room, including server backup.
<input type="checkbox"/>	Log intended whereabouts of CSR and VA personnel. Give list to Office Assistant (OA) for distribution.
POST HURRICANE	
<input type="checkbox"/>	Establish log of employees - initial report in, return to work, locations, etc.
<input type="checkbox"/>	Notify customers daily on status of terminal operations.
<input type="checkbox"/>	Assess areas and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS - OPERATIONS SUPERVISOR

Date _____

(For Assignment)

Assigned To: _____

Verified By: _____

ACTION ITEMS - GENERAL	
PRIOR TO HURRICANE SEASON	
<input type="checkbox"/>	Prepare a list of items to be removed from the area: drums, scaffolds, debris, etc. Record time finished. (This list should be made early to allow removal prior to onset of heavy wind and rain.)
PENDING STORM	
<input type="checkbox"/>	Secure all loose objects which may blow or float (gangway, hoses, life rings etc).
<input type="checkbox"/>	Collect ALL operations hand held radios, batteries and chargers and store for storm. Notify Location to Safety Specialist
12 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Close doors and windows in all buildings and instrument cabinets.
POST HURRICANE	
<input type="checkbox"/>	Assess areas and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

Equipment remaining in operation at Wastewater Plant:

1. Lift station pumps at Wastewater Treatment Plant
2. Lift station and digester blowers at Wastewater Treatment Plant

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS - OPERATIONS SUPERVISOR

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

All personnel are required to wear life jackets while on docks.

ACTION ITEMS - DOCKS	
PENDING STORM	
<input type="checkbox"/>	Lower any hoses which may be suspended from cranes and booms.
<input type="checkbox"/>	Secure loading arms with sufficient material to ensure high wind does not break binding (preferably not rope)
12 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Drain and secure all loading arms
<input type="checkbox"/>	Pump hydrocarbon off all sumps
<input type="checkbox"/>	Secure all doors and windows (Docks/Control Room/Crude Tank Farm Office)
<input type="checkbox"/>	Disconnect hoses and loading arms from ships and barges*.
POST HURRICANE	
<input type="checkbox"/>	Assess areas and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

* Any vessel moored at the Terminal must provide manpower to adjust mooring lines.

In securing the areas, personnel should keep in mind that high waters will be present during the storm and the area should be prepared accordingly. A surge tide should be expected and should be prepared for.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -**APPENDIX 1****PROCEDURES & CHECKLISTS - OPERATIONS SUPERVISOR**

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

ACTION ITEMS - RAIL RACKS	
PENDING STORM	
<input type="checkbox"/>	Remove all debris which may blow or float away
12 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Fuel locomotive and park near Warehouse. Secure doors, windows and tools
<input type="checkbox"/>	Couple all cars, set brakes and chock wheels. Leave road crossings clear. Secure domes
<input type="checkbox"/>	Securely lash all loading arms and access ramps
<input type="checkbox"/>	Latch doors on buildings
<input type="checkbox"/>	Latch doors cabinets located on walkway
POST HURRICANE	
<input type="checkbox"/>	Assess areas and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS - OPERATIONS SUPERVISOR

Date _____

(For Assignment)

Assigned To: _____

Verified By: _____

ACTION ITEMS - TRUCK RACKS	
PENDING STORM	
<input type="checkbox"/>	Remove all debris which may blow or float away
12 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Securely lash all loading arms and access ramps
<input type="checkbox"/>	Pump all hydrocarbons from sump basin. Have vacuum truck empty the pit if time permits.
<input type="checkbox"/>	Turn the flare system to the OFF position and block the natural gas.
POST HURRICANE	
<input type="checkbox"/>	Assess areas and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS - OPERATIONS SUPERVISOR

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

ACTION ITEMS - TANK FARM	
PRE-HURRICANE SEASON	
<input type="checkbox"/>	Leave roof drains open unless leakage occurs. Make a list of leaking roof drains.
PENDING STORM	
<input type="checkbox"/>	Remove all loose debris which might flow or float away.
<input type="checkbox"/>	Check all dike drain valves for closure. Sandbag if necessary.
<input type="checkbox"/>	Idle, clean cone roof tanks can be left with water draws open to allow tank to flood as dike fills with water.
<input type="checkbox"/>	Pull manways on all empty tanks
	Preference is to have between 75 – 80% in tanks
12 HOURS IN ADVANCE OF LANDFALL	
<input type="checkbox"/>	Shut down all tank mixers.
<input type="checkbox"/>	Latch shut doors on all buildings, switchrooms, etc.
POST HURRICANE	
<input type="checkbox"/>	Assess area and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -

APPENDIX 1

PROCEDURES & CHECKLISTS - SUPERVISOR MAINTENANCE

(For Assignment)

Assigned To: _____

Date _____

Verified By: _____

ACTION ITEMS	
PRIOR TO HURRICANE SEASON	
<input type="checkbox"/>	Check Terminal for drums, debris, etc., and dispose of or contact appropriate person for disposal.
PENDING STORM	
<input type="checkbox"/>	Secure all scaffolds, empty pallets and loose drums.
<input type="checkbox"/>	Fill motorized equipment with fuel. (All vehicles left in terminal)
<input type="checkbox"/>	Park vehicles inside designated area.
<input type="checkbox"/>	Order fuel for gasoline/diesel storage tanks (195 bls tanks). Also fill diesel and gasoline fuel tanks.
<input type="checkbox"/>	Secure all trailers in Terminal.
<input type="checkbox"/>	Fill Terminal boats with gas (2 extra 5-gallon cans stored in boat premixed with oil) Check both boats for operability.
<input type="checkbox"/>	Fill diesel tank at #1 River Pumphouse and LNVA Firewater Pump.
<input type="checkbox"/>	Check terminal generators for operability and ensure they are full of fuel.
<input type="checkbox"/>	Insure locks and chains are available for all exterior gates.
<input type="checkbox"/>	Monitor safety of general cleanup with special attention to high wind.
<input type="checkbox"/>	Prepare Main Gate for emergency service.
24 HOURS BEFORE LANDFALL	
<input type="checkbox"/>	Collect and test extra emergency radios. Make ready for service and verify that spare batteries and chargers are available.
<input type="checkbox"/>	Secure items outside Warehouse and throughout terminal.
<input type="checkbox"/>	Ensure large items (such as dumpsters) are secure. Special attention to articles that are in close proximity to where personnel may be stationed (dumpster in Admin parking areas)
<input type="checkbox"/>	Insure locks and chains are available for all exterior gates.
<input type="checkbox"/>	Advise Manager, Beaumont Terminal of Security Guard status and other hurricane preparations.
POST HURRICANE	
<input type="checkbox"/>	Access damage reports and act accordingly.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

HURRICANE PROCEDURES -**APPENDIX 1****PROCEDURES & CHECKLISTS - SUPERVISOR, ACCOUNTING (CSR & COMMERCIAL)**

Date _____

(For Assignment)

Assigned To: _____

Verified By: _____

ACTION ITEMS	
PRE HURRICANE SEASON	
<input type="checkbox"/>	Update Customer List with current customers including emergency contact names and telephone number by June 1 of each year. Provide list of customers to the Hurricane Committee.
48 HOURS IN ADVANCE OF LANDFALL	
<input type="checkbox"/>	Advise customers of weather situation and any necessary movements or precautions necessary.
<input type="checkbox"/>	Arrange for instructions to be carried out as necessary.
POST HURRICANE	
<input type="checkbox"/>	Advise customers of damage situation and of any necessary movements or precautions.
<input type="checkbox"/>	Assess areas and report damages to Maintenance Supervisor.
<input type="checkbox"/>	Notify Hurricane Committee of any changes/modifications needed in hurricane procedures.

When form is complete and verified, return to Safety Specialist

CHEVRON PIPE LINE

HURRICANE PROCEDURES

MONT BELVIEU, TX

HURRICANE PREPAREDNESS PLAN

REVISED: August 11, 2011

MONT BELVIEU HURRICANE PROCEDURES TABLE OF CONTENTS

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INTRODUCTION

The periods of June 1st through November 30th are the normal periods in which we are most susceptible to damages from a hurricane.

The purpose of this plan is to provide guidelines to Management and employees in the event of impending danger from a hurricane.

The foregoing are guidelines for reacting to weather conditions announced by the National Weather Service Hurricane Center in Miami, Florida, when a hurricane has developed and may threaten the Gulf Coast Area.

Please review these guidelines and be prepared to take necessary action for safety of our employees, their families and company property.

Remember high winds and inland flood poses the most threat during this type of severe weather condition.

In the event a hurricane or hurricane-like weather conditions threaten the Gulf Coast region, the following weather services will begin notifying the designated individuals listed in this plan under "SEVERE WEATHER NOTIFICATIONS".

DEFINITIONS

Hurricane Watch

A hurricane watch is an announcement issued by the U. S. Weather Bureau to advise the public that a tropical storm or a hurricane has become a threat. The hurricane watch announcement is not a warning; its purpose is to advise all interested that a hurricane is near, and all persons in the area covered by the watch should listen for subsequent advisories and be ready to take precautionary action in the event a hurricane warning is issued.

Hurricane Warning

A hurricane warning is an announcement issued by the U.S. Weather Bureau warning all interested that hurricane winds 74 miles per hour, or higher, are expected in specified areas. The warning also will advise whether dangerously high tidal water is expected to accompany the high winds. When a hurricane warning is issued, hurricane conditions are considered imminent and high winds can be considered within a matter of hours.

Hurricane

A hurricane is an intense tropical cyclone with winds 74 miles per hour or higher, whirling around the center (the eye) in a counter clockwise direction. The diameter of the eye usually ranges from five to twenty-five miles. Within the area of the eye, there is almost dead calm. Wind speeds of 74 MPH or higher may cover an area outward from the eye to a distance of 100 miles, with lesser but still destructive winds extending as far out as 250 miles from the center. Heavy rainfall, averaging five to ten inches is a 24-hour period, generally accompanies the high winds. One of the greatest hazards associated with a hurricane is high water, which results from storm surge and can be magnified by tidal activity.

PHASE I will be declared under any one of the following conditions:

- Any tropical storm or hurricane within the Gulf of Mexico (defined as the over water area north and west of a line drawn from the northeast tip of the Yucatan Peninsula to Miami, Florida).
- The leading edge of any tropical depression within 200 miles of any Chevron Pipe Line operations.

Phase II will be declared under any one of the following conditions:

- A tropical storm or hurricane within the Gulf of Mexico that is forecast to directly affect Chevron Pipe Line operations.
- A tropical depression, within 100 miles of Chevron Pipe Line operations, that is forecast to intensify.

Phase III will be declared under any one of the following conditions:

- A hurricane that represents imminent danger to Chevron Pipe Line personnel and operations.
- A tropical storm that is forecast to intensify and/or represents an imminent danger to Chevron Pipe Line personnel and operations.

ATTACHMENT A**Hurricane Weather Notification****Weather Advisory Service****Phone#****Fax#**

Hurricane Web Site: (www.weather.com)

Hurricane Web Site: (www.intellicast.com)

The US Weather Bureau will categorize hurricanes as follows:

CATEGORY	WIND SPEEDS	STORM SURGE
1	74 to 95 mph	4 to 5 feet
2	96 to 110 mph	6 to 8 feet
3	111 to 130 mph	9 to 12 feet
4	131 to 155 mph	13 to 18 feet
5	155 plus mph	19 feet or more


ATTACHMENT B**Hurricane Emergency Notification and Updates**

To assist in communicating critical information and updates, the **Phone Mail Hurricane Emergency Line** feature has been set up to facilitate notifying Company Employees. It will have a message when called by ees and the capability of leaving messages for the Team leader to review.

Hurricane Emergency Line Number: (1-877-202-0203)

**Emergency Notification Numbers for
Mid Stream Profit Center**

HES Hot Pager: 1-877-863-5196

Chevron Pipe Line - ASSET MGMT-Midcontinent/Texas EMERGENCY NOTIFICATION NETWORK EMPLOYEE Emergency Notification Network Card		
Field Team	ENN System Phone	 Refer to Instructions on other side of this card.
Wortham	1-877-295-6943	
West Texas	1-877-295-6945	
Sour Lake	1-877-687-7981	
Mt Belvieu	1-877-202-0203	

The ENN was developed to allow Team Leaders and Team Members to communicate during an emergency. During a hurricane, this ENN system will be updated to convey pertinent information to and from all employees. (Details of the ENN System can be found in the Emergency Response Plan (ERP Manual), Sec 5 & 9 (Hurricane Plan) of Louisiana & Texas Appendices)

TO ACCESS THE ENN SYSTEM:

1. Dial into the appropriate "Toll-Free" number (see other side)
2. Leave a message at the tone which includes: Your Name - Contact Phone Number - Physical Location - Availability for return to work - Message for your Team Leader.

*** Please call in anytime your status changes ***

CTPC GULF COAST REGION - HURRICANE NOTIFICATION CARD 08/10/04 Phone-ENN Card XLS



NOAA EXTREME WEATHER

2007 INFORMATION SHEET

ecowatch.ncddc.noaa.gov/c-side

STATE INFORMATION

TexasOnline.com Emergency Portal	www.TexasOnline.com/emergency-eng
Texas Department of Public Safety (www.txdps.state.tx.us)	512-424-2000
Governor's Division of Emergency Management (www.txdps.state.tx.us/dem)	512-424-2125
Texas Department of Transportation (www.dot.state.tx.us)	1-800-558-9268
Texas State Road Conditions	1-800-452-9292
National Weather Service (Houston/Galveston) (www.srh.noaa.gov/hgo)	281-337-5074
National Weather Service (Brownsville) (www.srh.noaa.gov/bro)	956-504-1432
Office of Tourism Information & Referral (www.travelhouston.com)	1-800-838-STEX (8339)
Texas Department of Agriculture (www.ag.state.tx.us)	1-800-TELL-TDA (835-8832)
Texas Highway Patrol (www.txhdp.state.tx.us/tle)	512-424-2060
Texas Highway Patrol Roadside Assistance	1-800-525-5555
Texas Rangers (www.txhdp.state.tx.us/director_staff/texas_rangers)	512-424-2160
Governor's Office (www.governor.state.tx.us)	1-800-543-5789 or 512-463-2000
Texas Animal Health Commission (www.tahc.state.tx.us)	1-800-559-8242
Texas Attorney General (www.oag.state.tx.us)	1-800-252-8011 or 512-463-2100
Consumer Protection Hotline	1-800-671-0505
Texas Commission on Environmental Quality (www.tceq.state.tx.us)	512-239-1000
Texas Department of Insurance (www.tdi.state.tx.us)	1-800-575-4677 or 512-463-6169
Texas Parks & Wildlife Department (www.tpwd.state.tx.us)	1-800-792-1112
Texas Department of State Health Services (www.dshs.state.tx.us)	512-458-7111 or 1-888-963-7111
Brownsville Public Utilities Board	956-983-6300
CenterPoint Energy Houston Electric	1-800-752-8036
CenterPoint Energy East/South Texas	1-888-376-5786
Emergency	Customer Service and Emergencies 1-800-ENTERGY (368-3749)
	Power Outage 1-800-9OUTAGE (968-8243)
Houston County Electric Cooperative	Customer Service 1-800-657-2445
	Power Outage 1-800-970-HCEC (4232)
Nueces Electric Cooperative	1-800-NEC-WATT (632-9288)
San Patricio Electric Cooperative	361-364-2220 or 1-888-740-2220
AEF - American Electric Power	1-877-373-4858
US Coast Guard (8th District)	713-671-5100

For Emergencies, Call 911 In All Areas. • For Non-Emergency Information And Referrals, Call 211
For Evacuations And Special Health Care Needs, Call 211 To Register In Advance For A Ride

COUNTY INFORMATION

Aramis County		Jefferson County	
Emergency Management	361-729-2222	Emergency Management	409-335-8757
Sheriff Department	361-729-2222	Sheriff Department	www.co.jefferson.tx.us/em-hmn
Brazoria County		Kenedy County	
Emergency Management	979-864-1801	Emergency Management	361-294-5205
Sheriff Department	www.brazoria-county.com/en	Sheriff Department	361-294-5205
Calhoun County		Khlebar County	
Emergency Management	979-388-2392	Emergency Management	361-595-8500
Sheriff Department	361-553-4400	Sheriff Department	361-595-8500
Cameron County		Matagorda County	
Emergency Management	361-553-4646	Emergency Management	979-323-0707
Emergency Management	956-547-7000	www.co.matagorda.tx.us/ps/cms/Emergency_Preparedness	
Sheriff Department	www.co.cameron.tx.us/emergency/emergencymanage.html	Sheriff Department	979-245-5526
Chambers County		Nueces County	
Emergency Management	956-534-6700	Emergency Management	361-887-2222
Sheriff Department	409-267-8343	Sheriff Department	361-826-3900
Galveston County		Orange County	
Emergency Management	www.co.chambers.tx.us/offices/emergmt.html	Emergency Management	409-882-7895
Sheriff Department	409-267-8318	www.co.orange.tx.us/OC/EmergencyManagement.htm	
Harris County		Sheriff Department	409-883-2612
Emergency Management	713-881-3100	San Patricio County	
Sheriff Department	713-221-6000	Emergency Management	361-364-6144
		Sheriff Department	361-364-2251
		Willacy County	
		Emergency Management	956-680-3321
		Sheriff Department	956-689-5576

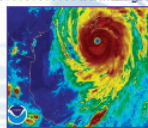
For additional resources, updates, and real-time data see our website: ecowatch.ncddc.noaa.gov/c-side



The site provides direct linkage to local, state, and federal information as it pertains to severe weather preparation and monitoring across the Gulf of Mexico coastal region.

NATIONAL INFORMATION

American Red Cross	1-866-GET-INFO (1-866-438-4636)
Environmental Protection Agency	www.epa.gov
Federal Emergency Management Agency (FEMA)	1-800-621-FEMA (3362)
National Oceanic and Atmospheric Administration (NOAA)	www.noaa.gov
NOAA National Coastal Data Development Center	www.ncddc.noaa.gov
NOAA National Climatic Data Center	www.ncdc.noaa.gov
NOAA National Data Buoy Center	www.ndbc.noaa.gov
NOAA National Hurricane Center	www.nhc.noaa.gov
NOAA National Oceanographic Data Center	www.nodc.noaa.gov
NOAA National Weather Service	www.nws.noaa.gov
NOAA Coastal Services Center	www.csc.noaa.gov
NOAA National Environmental Satellite, Data, and Information	www.nesdis.noaa.gov
NOAA Watch - NOAA's All-Hazard Monitor	www.noaawatch.gov
US Department of Homeland Security	www.dhs.gov
NOAA Satellites and Information Service (National Environmental Satellite, Data and Information Service) - NESDIS operates the satellites and manages the processing and distribution of millions of bits of data and images these satellites produce daily. The prime customer for the satellite data is the NOAA National Weather Service, which uses satellite data to create forecasts for television, radio, and weather advisory services.	



RADIO STATIONS

TEXAS:		
KTRH 740 AM (Houston)	KZFM 95.5 FM (Corpus Christi)	
KLAT 1010 AM Española (Houston)	KNCN 101.3 FM (Corpus Christi)	
KUHF 88.7 FM (Houston)	KQXY 94.1 FM (Beaumont)	
KOGT 1600 AM (Orange)	KLVI 560 AM (Beaumont)	
Louisiana:		
WWL 870 AM (New Orleans)	WFME 102.5 FM (Baton Rouge)	
WLMG 101.9 FM (New Orleans)	WJBO 1150 AM (Baton Rouge)	
KLHA 99.5 FM (Lake Charles)	KTDY 99.9 FM (Lafayette)	

NOAA Weather Radio

Not manufactured by NOAA. NWR receivers can be purchased at many retail outlets and on the internet.

NOAA Weather Radio (NWR) All Hazards is a nationwide network of radio stations broadcasting continuous weather information directly from a nearby National Weather Service office. NWR broadcasts National Weather Service warnings, watches, forecasts, and other hazard information 24 hours a day.

162.400 MHz	162.425 MHz	162.450 MHz	162.475 MHz	162.500 MHz	162.525 MHz	162.550 MHz
-------------	-------------	-------------	-------------	-------------	-------------	-------------



Evacuations and Special Health Care Needs:
Dial 2-1-1 to register for a ride

If you live in a hurricane EVACUATION ZONE, and you have special health care or transportation needs, you need to make extra efforts to get ready for hurricane season. Hurricane season officially begins June 1 and continues through November 30.

It is critical that you begin now to make your evacuation plans, prepare an emergency kit and learn evacuation routes. This should be done well in advance.

To find out whether you are living in an evacuation zone, dial 2-1-1 for information. Operators answering the phones at 2-1-1 are also prepared to help you register for transportation and special assistance now, before hurricane season begins.

If you have special health care needs, register by dialing 2-1-1:

Gulf coast residents with special health care needs (including those who are disabled or medically fragile) who live in evacuation zones and do not have friends or family to help in an evacuation should register for a ride in advance by dialing 2-1-1. The 2-1-1 registry must be dialed IN ADVANCE. Do not wait until a storm is in the Gulf to register for assistance. This service is for people who cannot drive themselves or make transportation arrangements.

If you need transportation, register with 2-1-1:

If you do not have a car or other vehicle, and you cannot get a ride with friends, neighbors or family, register IN ADVANCE for a ride by dialing 2-1-1.

Governor's Division of Emergency Management

www.txdps.state.tx.us/dem

Stennis Space Center Participants



Version 1.01

Prepared by

NCDDC

1-866-732-2382

Published May 2007

ATTACHMENT C

Pre-Hurricane Season Preparedness

Team Leader(s)

- Hurricane preparedness procedures should be updated as appropriate:
 - severe weather notification
 - personnel contact lists
 - conduct test of after hours hurricane notification process
- Team should review hurricane procedures and determine the number of hours required to evacuate personnel under **Phase III**.
- Verify and update individual field call back lists.
- Identify all critical files and records to be transported during **Phase II**. Check availability for vital record storage.
- Requisition and inventory materials needed in hurricane preparation work.
- Inspect the facility for the purpose of identifying fire hazards, emergency equipment location and condition and the status of facility security in anticipation of hurricane force winds striking the facility.
- All personnel will pick up all loose items in the operating units, maintenance shops and off-site locations. (Meter Stations, Compressors stations, Valve sites, etc.)
- Inspect guy wires and portable buildings tie downs and assess the need for additional securing.
- Check facility drainage system for good drainage and check all sheet metal insulation coverings and building roofs.
- Review and revise, if necessary, and issue detailed checklist for the shutdown and securing of the facilities in preparation for weathering any hurricane.
- Ensure that all meter houses, etc. are tied down to piling supports.
- Check all boats, generators for oil, fuel, fresh water.

HURRICANE PROCEDURES

Phase I

Team Leaders

When Phase 1 is issued by the Chevron Hurricane Team

- Team Leaders Reserve a Block of Rooms for First Responders
- Team Leader(s) will conduct a facility wide inspection, listing conditions that must be corrected.
- Monitor weather reports and keep Mid-Continent Operations Manager informed of any change in hurricane status.
- Remind all employees to prepare their family and homes for possible hurricane conditions.
- Conduct a team meeting to establish the emergency team and discuss procedures in the event of Stage 2.
- Alert all office personnel and remote support groups.
- Check equipment at all locations: valves, batteries, tanks, buildings, compressors sites etc.
- Will advise all employees under their supervision regarding the work they will do in closing down jobs.
- Clear pipe racks of wood and make sure sills are tied down. All pipes should be tied down to pilings where possible.
- Secure all loose objects, lumber, pilings, chemical drums, etc.
- Fill diesel fuel oil tanks and lube oil storage tanks with diesel and oil, gas respectively. Tanks should be secured by guying to pilings.
- Obtain ample hand lanterns and flash lights. All portable radios, phones should be checked and extra batteries available.
- Procurement of last minute supplies needed for evacuation such as rope, cable, clamps, nails, lumber, timber, plywood, etc. will be made by the Field locations.
- Notify Waste Management to pick up all waste drums at designated field locations if needed.

Phase II

Team Leaders

When Phase 2 is issued by the Chevron Hurricane Team

The following steps will be taken immediately.

- Team leader will alert all personnel **Phase II** exists
- Secure all company property:
- Cover/ board up all doors and windows.
- Cover all critical equipment. (office, Field)
- Transport all critical files and records to a safe location
- The Team Leader(s) will release the emergency team on an as-needed basis to take care of responsibilities outside the facility. This decision is strictly at the Team Leader(s) discretion; however, the goal should be to have the emergency team in place twenty four (24) hours before hurricane force winds (74 mph) are expected at the facility.
- This action will allow the release of non-essential personnel in advance of development of hazardous conditions in the area. A careful staffing of the hurricane emergency team with personnel who can operate or shutdown, should the storm change directions at the last minute, or just come close.

Phase III

Team Leaders

When Phase 3 is issued by the CVX Hurricane Team

- Secure all office files & remove any personal items. Shutdown all computers. Secure & lock all gates & office buildings. Turn off all utilities.
- The Team Leader will initiate an orderly shutdown of the affected facilities and notify the Mid-Continent Manager of the shutdown.
- Notify CSC of our hurricane plans, (give information of affected facilities) CSC will notify all affected companies.

Start shutdown plans for the following:

- Mont Belvieu Pump Station
- Lynchburg Pump Station
- Gulf Coast/Enterprise
- Beasley Pump Station
- Hitchcock Booster Station
- Dynegy – Galena Park
- Mont Belvieu Office
- Battleground PRS
- Cedar Bayou EU1592
- Cedar Bayou Pines Valve Station
- Livingston Pump Station
- Fina Meter Station
- Old World Meter Station [LaPorte]
- ITC
- BASF
- BP Arco Miller
- Sunoco LaPorte
- Solvay/Equistar
- PCC Meter Station
- Arkema
- Sweeny Pipelines ?

Team Leader(s)

- The “Catastrophe Team” will provide instructions and assistance dealing with estimates of damage, insurance claims, handling of work tickets and invoices, material transfer, etc.
- Hurricane Preparedness will relay pertinent information to Supervisors regarding when to return to work, transportation arrangements, and road conditions and where personnel are to report, etc.

Post Hurricane will begin as soon as storm conditions have subsided**Team Leader(s)****Will contact all direct reports with back to work instructions using the Hurricane Emergency Line (1-877-202-0203)**

- Emergency team is to survey the facility to assess the damage, availability of utilities (electricity, water, roads, etc) and the needs to start up as soon as possible.
- Personnel are to contact the Hurricane emergency Line by phone **(1-877-202-0203)** or in person as soon as possible and advise Team Leader of their availability for returning to work. A list of personnel available to work should be maintained by the Team Leader.
- Team Leader(s) should organize relief for the emergency team as soon as possible so they can take care of out of facility responsibilities.
- Monitor local radio stations during severe thunderstorms for tornado warning.

PRE-HURRICANE SUPPLY LIST (FOR EMERGENCY SUPPLY TRAILER)

Electrical extension cords (3)
Batteries-all types (AAA, AA, C, D & 9V)
Roll of plastic
Ice chest (4)
Matches wood safety (3)
Duct tape (12)
Can opener – mechanical (1)
Bungee cords (12)
Water proof containers (2) (for paper documents)
Mosquito spray (14)
Drinking water – will order in phase one.
3/8” nylon rope
Flashlights (6)
Canned Food (Ready to Eat)
Generators from Mont Belvieu

EQUIPMENT RENTAL INFORMATION

- **Cains Welding Services – 281-576-5118 Office**

	Day	Week	Month
Light Towers (2)			
In use			
Standby on Site			
Standby @ Yard			

Generator Information

Brand	kW	Voltage	Phase	Serial Number	Location
Winco	36kW	480VAC	3	18585	Mt. Belvieu
Generac	5500 W	110/220 VAC	1	6106285	Mt. Belvieu
Generac	5500 W	110/220 VAC	1	6106286	Mt. Belvieu
Honda	3500 W	110/220 VAC	1	EA6 1108332	Mt. Belvieu
MQ Diesel Generator	100 KW	480 VAC	1	125SSIU	Mt. Belvieu

All of the above generators are located at the MB Office.

ATTACHMENT D

Company Employee Phone Listing - Mont Belvieu Team

Name	Title	Office	Mobile	Nextel Direct Connect/ Phone	E-Mail	Home
ALBANESE, R. B. (Rick)	Project Coordinator/B	281-385-7827	(b) (6)	143*62793*35 281-594-4489	RAIbanese/ARIB ralbanese@peoplepc.com	(b) (6)
ANGLIN, K.R. (Kenny)	Pipeliners/B	281-385-7831			KAJD	
BATTISE, D. E. (David)	Pipeline Operator/D	281-385-7817		143*62793*4 281-594-4336	AEYR david19751975@yahoo.com	
BEATY, J. R. (Jimmy)	Pipeline Operator/A	281-385-7803			JDXR	
BENAVIDES, C. A. (Carlos)	I & E Technician/B	281-385-7813			CFNZ	
BOATRIGT, R. W. (Robbey)	I & E Technician/B	281-385-7825		143*62793*11 281-212-7749	RBoatright/RWBO rwboatright@comcast.net	
BROCK, D. W. (David)	Pipeline Operator/A	281-365-7834			DBPQ	
CALLAWAY, R. C. (Ronnie)	Operations Supervisor/C	281-385-7824		143*62793*21 281-594-4475	RCTI	
CLAMON, M. A. (Mark)	Operations Supervisor/B	281-385-7820		143*62793*8 281-594-4418	MClamon/CLMN Sherriclamon@yahoo.com	
COLEMAN, R. R. (Roger)	Pipeline Operator/B	281-385-7819		143*62793*9 281-594-4422	RogerColemanRRCR	
COMPEAN, P. (Pete)	CP Technician/B	281-385-7818			PCompean/PCOM	
CROSSON, D. R. (Darrell)	I & E Technician/A	281-385-7816		143*62793*6 281-594-4412	DCEQ	
GOTHIA, N. L. (Nick)	Facility Inspector/B	281-385-7815		143*62793*10 281-212-7234	Nicky.G/NLGO ngothia@comcast.net	
HOANG, C. T. (Cu)	I & E Technician/A				CIIT	
JANAK, J. K. (Jason)	Pipeline Operator/A	281-385-7837		143*62793*5 281-594-4387	JKJA jasonjanak@gmail.com	
KEITH, R. A. (Rob)	Facility Inspector/A	281-385-7810			RKeith/RKEI	
LaRIVE, R. W. (Roy)	Field Control Technologist/B	281-385-7809			LROY	
LAUGHLIN, M. L. (Mike)	Facility Inspector/B	281-385-7808			MLaughlin/MLAU nuthouse13@sbcglobal.net	
MATHIS, I. J. (Jason)	I & E Technician/D	281-385-7811		143*62793*7 281-594-4416	IMEC	
MIXON, J. W. (J.W.)	Project Coordinator/B	281-385-7806		143*62793*3 281-594-3295	JWMixon/MIXO	
NAVARRE, J. (Joe)	Pipeline Operator/C	281-385-7843			JNSS	
NIVENS, M. R. (Mark)	Facility Inspector/A	281-385-7812--		143*62793*22 281-594-4476	MNivens/MRNI	
OJEDA, R. (Robert)	Pipeline Operator/C	281-385-7804			ROjeda/OJED	
OLIVER, K. S. (Karen)	Office Assistant/B	281-385-7801			KOliver/KSOL	
PITMAN, L.M. (Larry)	Pipeline Operator/B	281-385-7826		281-594-4477 143*62793*23	LarryPitman/LPFT	

Name	Title	Office	Mobile	Nextel Direct Connect	E-Mail	Home
Rinche, R. C. (Chris)	I & E Technician/C	281-385-7802	(b) (6)		Rrinche/RWWP	(b) (6)
SAMS, C. N. (Carl)	Pipeline Operator/B	281-385-7814		143*62793*1 281-594-0513	NealSams/CNSA	
SOULAS, D. (David)	I & E Technician/A	281-385-7807			DSQD	
SMITH, D. R. (David)	Field Control Technologist/B	281-385-7844			David.Smith/DASR	
SMITH, M. D. (Mike)	Team Leader/B	281-385-7822		143*62793*61 281-594-4516	Msmith/MDMS	
TARLTON, R. P. (Rick)	Pipeline Operator/D				Rtarlton/RUPZ	
WHITE, S. D. (Shane)	Pipeline Trainee B/B	281-385-7805			TDPC	
WORTHY, J. H. (Jim)	Pipeliner/A	281-385-7823			JimWorthy/JHWO	
Delaney, Gerald w/ KCSI	Patrol Pilot					
Anderson, David	Patrol Pilot					
Kirbyville Airport Fax #	409-489-0229					
Gulf Coast Office	281-383-2998					
Lynchburg	281-424-4112					
Cedar Bayou	281-421-6500					
Livingston	936-685-4411					
Targa Terminal Operations	281-385-3155					
Targa Galena Park	713 450-7215					
Chemicals Controller	713-432-2307					
LPG Controller	713-432-2309					

Yellow – First Responders

Green – TL and OS

Company Site Addresses

Mont Belvieu

10126 Highway 146 N • Mont Belvieu, Tx, 77580

Phone: 281-385-7801 • Fax: 281-385-2088

Contractor Phone Numbers

Name	Cell Number	Office Number	Home Number
Cain's Welding:	(b) (6)		(b) (6)
Leslie Larrison		281-576-5118	
Artus Stanley		281-576-5118	
Duphil Construction:			
Ron Redkey		409-883-8550	
Willie Conterras			
Buffalo Gap			
Bill Strickland		325-572-3389	
Troy Bonar		325-572-3389	
Randall Butler			

ATTACHMENT E**Hurricane Preparation Checklist (June 1 through July 30)**

DESCRIPTION	ASSIGNED TO	COMPLETED
INSPECT:		
GUY WIRES		
BUILDING TIE DOWNS		
DRAINAGE SYSTEM		
SHEETMETAL INSULATION		
BUILDING ROOFS		
FIRST AID KITS		
SPILL EQUIPMENT		
TEST:		
GENERATORS		
PORTABLE PUMPS		
DIESEL ENGINES		
OUTBOARD MOTORS		
RADIOS		
TELEPHONES		
CELL PHONES		
BEEPERS		
UPS BATTERIES		
SCADA SYSTEMS		
SECURE LOOSE ITEMS		
DRINKING WATER		
FILL FUEL TANKS		
STORE NON- ESSENTIAL EQUIPMENT		
BOARD MATERIAL FOR WINDOWS		
Identify all instrumentation that needs to be put in local automatic or manual mode		

ATTACHMENT F**Hurricane Preparedness Team****DESIGNATED MEETING LOCATION***BOB (Houston)***HURRICANE PREPAREDNESS TEAM:**

<u>Person</u>	<u>Mobile #</u>	<u>Office #</u>	<u>Pager #</u>	<u>Nextel ID #</u> <u>Phone</u>
Eileen McGrath	(b) (6)	713-432-2737	N/A	(b) (3), (b) (7)(F)
Richard Lucas		713-432-2654		
Ken Yoss		713-432-6227		
Mike Smith		281-385-7822		
Ronnie Kring		409-790-4427		
Mark Clamon		281-385-7820		
Ronnie Callaway		281-385-7824		
Brian Parrack		409-790-4404		
Benny Rager		713-432-6127		
Walter Emmert		713-432-6689		
Brian Parrack		713-432-3724		

KEY SUPPORT GROUPS:

Chemicals Console Control	(b) (6)	1-877-596-2817 713-432-2307		
LPG Control Console		1-877-596-2814 713-432-2309		
Control Systems				
Cooper East		713-432-6934		
Communications:				
Gypsy Morinelli		713-432-2906		
HES Manager Mid Continent				
Jerry Piritz		713-432-2518		
Hot Pager			877-863-5196	
Kent Matthews		713-432-3424		
Lonnie Evans		713-432-3406		

ATTACHMENT G

Major Casualty Losses Catastrophe Team

A “Catastrophe Team” has been formed to be responsible for all phases of administrative work as a result of damage from a major storm. The Team is comprised of the following personnel:

Team Leader	<i>Name</i>
Project Engineer	<i>Name</i>
Equipment Manager	<i>Name</i>
Production Supervisor	<i>Name</i>
Production Supervisor	<i>Name</i>
Materials Coordinator	<i>Name</i>
Account Analyst	<i>Name</i>
COMSET Clerk	<i>Name</i>
Comptrollers	<i>Name</i>

The Team will become active immediately when a major storm occurs and will be responsible for coordination of all administrative work as listed below:

1. Coordinate the preparation and summary of damage for use by the Region Office. Damage estimates should include:
 - a) Damage by field, lease and property code.
 - b) Type of equipment damage (cribbing, well head, navigation aid, line heater, tank battery, compressor station, etc.).
 - c) Amount of damage under each category.
2. Coordinate the preparation of all Form G-406's (Incident Report).
3. Prepare any necessary G-45's.
4. Monitor and review all documents for proper charges.
5. Obtain estimate numbers.
6. Ensure delivery tickets/invoices are handled correctly:
 - a) All delivery tickets and work tickets must be marked with the “CATASTROPHE LOSS” stamp, using red ink. They should also be stamped and coded, as normal, with the appropriate field and property code information. The appropriate estimate number must be included on all delivery and work tickets.
 - b) After the tickets have been coded and approved, they should be placed in a separate envelope from all other invoices, the envelope marked “CATASTROPHE LOSS”, and sent to the appropriate COSMET clerk.

The Team will coordinate the above activities with the Operations Managers.

CHEVRON PIPE LINE HURRICANE PROCEDURES SOUR LAKE, TX

HURRICANE PREPAREDNESS PLAN

REVISED: June 23, 2011

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INTRODUCTION

The periods of June 1st through November 30th are the normal periods in which we are most susceptible to damages from a hurricane.

The purpose of this plan is to provide guidelines to Management and employees in the event of impending danger from a hurricane.

The foregoing are guidelines for reacting to weather conditions announced by the National Weather Service Hurricane Center in Miami, Florida, when a hurricane has developed and may threaten the Gulf Coast Area.

Please review these guidelines and be prepared to take necessary action for safety of our employees, their families and company property.

Remember high winds and inland flood poses the most threat during this type of severe weather condition.

In the event a hurricane or hurricane-like weather conditions threaten the Gulf Coast region, the following weather services will begin notifying the designated individuals listed in this plan under "SEVERE WEATHER NOTIFICATIONS".

Attachment A:

Weather Advisory Service

Phone#

Fax#

Nash C. Roberts, Jr., Consultants, Inc.

???

?????

Hurricane Web Site: (www.noaa.org)

Hurricane Web Site: (www.intellicast.com)

Attachment B:

HURRICANE EMERGENCY NOTIFICATION AND UPDATES

To assist in communicating critical information and updates, the **Voice Mail Hurricane Emergency Line** feature has been set up to facilitate notifying Company Employees. It will have a message when called by ees and the capability of leaving messages for the Team leader to review.

- **Hurricane Emergency Line Number: (1-877-687-7981)**

Attachment C:

PRE-HURRICANE SEASON PREPAREDNESS

Team Leader(s)

- Hurricane preparedness procedures should be updated as appropriate:
 - severe weather notification
 - personnel contact lists
 - conduct test of after hours hurricane notification process
- Team should review hurricane procedures and determine the number of hours required to evacuate personnel under **Phase III**.
- Verify and update individual field call back lists.
- Identify all critical files and records to be transported during **Phase II**. Check availability for vital record storage.
- Requisition and inventory materials needed in hurricane preparation work.
- Inspect the facility for the purpose of identifying fire hazards, emergency equipment location and condition and the status of facility security in anticipation of hurricane force winds striking the facility.
- All personnel will pick up all loose items in the operating units, maintenance shops and off-site locations. (Meter Stations, Compressors stations, Valve sites, etc.)
- Inspect guy wires and portable buildings tie downs and assess the need for additional securing.
- Check facility drainage system for good drainage and check all sheet metal insulation coverings and building roofs.
- Review and revise, if necessary, and issue detailed checklist for the shutdown and securing of the facilities in preparation for weathering any hurricane.

HURRICANE PROCEDURES

PHASE I

Team Leaders

When Stage 1 is issued by the CVX Hurricane Team

- Team Leader(s) will conduct a facility wide inspection, listing conditions that must be corrected.
- Monitor weather reports and keep MidContinent Asset Team Vice President informed of any change in hurricane status.
- Remind all employees to prepare their family and homes for possible hurricane conditions.
- Conduct a team meeting to establish the emergency team and discuss procedures in the event of Stage 2.
- Alert all office personnel and remote support groups.
- Check equipment at all locations: valves, batteries, tanks, buildings, compressors sites etc.
- Will advise all employees under their supervision regarding the work they will do in closing down jobs.
- Ensure that all meter houses, etc. are tied down to piling supports.
- Clear pipe racks of wood and make sure sills are tied down. All pipes should be tied down to pilings where possible.
- Secure all loose objects, lumber, pilings, chemical drums, etc.
- Fill diesel fuel oil tanks and lube oil storage tanks with diesel and oil, gas respectively. Tanks should be secured by guying to pilings.
- Check all boats, generators for oil, fuel, fresh water.
- Obtain ample hand lanterns and flash lights. All portable radios, phones should be checked and extra batteries available.
- Procurement of last minute supplies needed for evacuation such as rope, cable, clamps, nails, lumber, timber, plywood, etc. will be made by the Field locations.

PHASE II

Team Leaders

When Stage 2 is issued by the CVX Hurricane Team

The following steps will be taken immediately.

- Team leader will alert all personnel **Phase II** exists
- Secure all company property:
- Close all doors and windows.
- Cover all critical equipment. (office, Field)
- Radios must be used for evacuation work only. Messages must be precise and **short**.
- The Team Leader(s) will release the emergency team on an as-needed basis to take care of responsibilities outside the facility. This decision is strictly at the Team Leader(s) discretion; however, the goal should be to have the emergency team in place twenty four (24) hours before hurricane force winds (74 mph) are expected at the facility.
- This action will allow the release of non-essential personnel in advance of development of hazardous conditions in the area. A careful staffing of the hurricane emergency team with personnel who can operate or shutdown, should the storm change directions at the last minute, or just come close.

PHASE III

Team Leaders

When Stage 3 is issued by the CVX Hurricane Team

- The Team Leader will initiate an orderly shutdown of the affected facilities and notify the Vice President – Asset Management MidContinent of the shutdown.
- Notify CSC of our hurricane plans, (give information of affected facilities) CSC will notify all affected companies.

Start shutdown plans for the following:

- Sour Lake Office
- PP Mix 138 PH
- PP Mix Motiva
- PP Mix 138 Valero
- PP Mix Fannett Check Meter
- 8" E. FS Meter Skid
- 1544 Propylene
- Port Acres Junction (Ethylene-10" & Propylene)
- Mobil Cheek
- EP 138 PH
- 1544 10" Ethylene
- Port Acres 8" Ethylene
- Honeywell
- Huntsman 8" Ethylene
- 8" Ethylene HD
- 8" Ethylene PPG
- Teppco Meter Skid
- Evangeline Orange
- Winnie Booster
- LPG-Sour Lake
- DOW Union Carbide

Team Leader(s)

- The “Catastrophe Team” will provide instructions and assistance dealing with estimates of damage, insurance claims, handling of work tickets and invoices, material transfer, etc.
- Hurricane Preparedness will relay pertinent information to Supervisors regarding when to return to work, transportation arrangements, and road conditions and where personnel are to report, etc.

Post Hurricane will begin as soon as storm conditions have subsided**Team Leader(s)****Will contact all direct reports with back to work instructions using the Hurricane Emergency Line (1-877-687-7981)**

- Emergency team is to survey the facility to assess the damage, availability of utilities (electricity, water, roads, etc) and the needs to start up as soon as possible.
- Personnel are to contact the Hurricane emergency Line by phone **(1-877-687-7981)** or in person as soon as possible and advise Team Leader of their availability for returning to work. A list of personnel available to work should be maintained by the Team Leader.
- Team Leader(s) should organize relief for the emergency team as soon as possible so they can take care of out of facility responsibilities.
- Monitor local radio stations during severe thunderstorms for tornado warning.

Attachment D**Sour Lake Team**

Name	Location	Office	Pager	Mobile	Direct Connect	Home
Basham, Chad	SL	409-951-4429		(b) (6)	281-594-4518 143*62793*63	(b) (6)
Bobb, Regina	SL	409-951-4401			281-594-4520 143*62793*65	
Brown, Link	SL	409-951-4402			281-594-4493 143*62793*38	
Casteel, Chelsea	SL	409-951-4430			281-594-4492 143*62793*37	
Dischler, Steve	SL	409-951-4410			281-594-4495 143*62793*40	
Fregia, Erik	SL	409-951-4406			281-594-4499 143*62793*44	
Gooch, David	SL	409-951-4425			281-594-4497 143*62793*42	
Kring, Ronny	SL	409-951-4427			281-594-4515 143*62793*60	
May, Dale	SL	409-951-4414	409-841-1489		281-594-4502 143*62793*47	
North, Colt	SL	409-951-4415			281-594-4505 143*62793*50	
Parrack, Brian	SL	409-951-4404			281-594-4505 143*62793*45	
Petry, Jeff	SL	409-951-4413			281-594-4506 143*62793*51	
Smith, Jared	SL	409-951-4403			281-594-4508 143*62793*53	
Van Etta, Mark	SL	409-951-4418			281-594-4512 143*62793*57	
Veltz, Chris	SL	409-951-4419			281-594-4513 143*62793*58	

Contractor Phone Numbers

Name	Cell Number	Home Number	Pager Number
Wayne Butler	(b) (6)		409-456-0352
Josh Butler			
Billy Flowers			
Byrant Griffin			
Pete Malak			281-434-7761
Randall Fregia			
Jay Harrington			
Anthony Hafford			
Carl Henderson			
Adam LeBlanc			

Site Addresses

Sour Lake 1330 Gulf Rd/PO Box 338 • Sour Lake, Tx 77659 Phone: 409-951-4400 • Fax: 409-287-2743
Port Acres Junction 403 FM 365 Port Arthur Tx 77640

Attachment E

HURRICANE PREPARATION CHECKLIST (JUNE 1 through JULY 30)

DESCRIPTION	ASSIGNED TO	COMPLETED
INSPECT:		
GUY WIRES		
BUILDING TIE DOWNS		
DRAINAGE SYSTEM		
SHEETMETAL INSULATION		
BUILDING ROOFS		
FIRST AID KITS		
SPILL EQUIPMENT		
TEST:		
GENERATORS		
PORTABLE PUMPS		
DIESEL ENGINES		
OUTBOARD MOTORS		
RADAR UNITS		
RADIOS		
TELEPHONES		
CELL PHONES		
BEEPERS		
RTU BATTERIES		
SCADA SYSTEMS		
SECURE LOOSE ITEMS		
DRINKING WATER		
FILL FUEL TANKS		
STORE NON- ESSENTIAL EQUIPMENT		
BOARD MATERIAL FOR WINDOWS		
Identify all instrumentation that needs to be put in local automatic or manual mode		

Attachment F

DESIGNATED MEETING LOCATION

BOB (Houston)

HURRICANE PREPAREDNESS TEAM:

<u>Person</u>	<u>Mobile #</u>	<u>Office #</u>	<u>Pager #</u>	<u>Nextel ID #</u>
Eileen McGrath	(b) (6)	713-432-3539		
Richard Lucas		713-432-3362		(b) (3), (b) (7)(F)
Phillip Deprang		713-432-2727		
Michael Smith		409-951-4427		
Benny Rager		713-432-6127		
Ronny Kring		409-951-4427		

KEY SUPPORT GROUPS:

Chemicals Console	(b) (6)	1-877-596-2817 713-432-2307		
LPG Control Console		1-877-596-2814 713-432-2304		
Control Systems				
Cooper East		713-432-6934		
Communications:				
Mike Vest		713-432-2114		
HES Manager				
Midcontinent:				
Jerry Pirtiz		713-432-2518		
Hot Pager			877-863-5196	
Kent Matthews	(b) (6)	713-432-3424		
Terry Basham		409-724-3254		
Jason Green		713-432-6363		

Attachment G

MAJOR CASUALTY LOSSES CATASTROPHE TEAM

A “Catastrophe Team” has been formed to be responsible for all phases of administrative work as a result of damage from a major storm. The Team is comprised of the following personnel:

Team Leader	<i>Name</i>
Project Engineer	<i>Name</i>
Equipment Manager	<i>Name</i>
Production Supervisor	<i>Name</i>
Production Supervisor	<i>Name</i>
Materials Coordinator	<i>Name</i>
Account Analyst	<i>Name</i>
COMSET Clerk	<i>Name</i>
Comptrollers	<i>Name</i>

The Team will become active immediately when a major storm occurs and will be responsible for coordination of all administrative work as listed below:

1. Coordinate the preparation and summary of damage for use by the Region Office. Damage estimates should include:
 - a) Damage by field, lease and property code.
 - b) Type of equipment damage (cribbing, well head, navigation aid, line heater, tank battery, compressor station, etc.).
 - c) Amount of damage under each category.
2. Coordinate the preparation of all Form G-406's (Incident Report).
3. Prepare any necessary G-45's.
4. Monitor and review all documents for proper charges.
5. Obtain estimate numbers.
6. Ensure delivery tickets/invoices are handled correctly:
 - a) All delivery tickets and work tickets must be marked with the “CATASTROPHE LOSS” stamp, using red ink. They should also be stamped and coded, as normal, with the appropriate field and property code information. The appropriate estimate number must be included on all delivery and work tickets.
 - b) After the tickets have been coded and approved, they should be placed in a separate envelope from all other invoices, the envelope marked “CATASTROPHE LOSS”, and sent to the appropriate COSMET clerk.

The Team will coordinate the above activities with the Operations Managers.

Olefins & NGL Hurricane Manual Quick Reference

Plan Activation Key Steps

1. If a Hurricane threatens the Gulf Coast at some point the General Manager Olefins & NGL will activate The Hurricane Preparedness Plan (Section 1 of this Manual):
 - The General Manager Olefins and NGL, Olefins Business Manager and Logistics and Distribution Manager will immediately alert key CPChem and support personnel via the Initial Contacts List in Section 2 of this Manual.
 - The General Manager Olefins and NGL will schedule an initial conference call/meeting to discuss: storm specifics, location of personnel, conference call frequency, etc. as noted in The Plan.
 - The team will use the procedures identified in The Plan to communicate and plan activities before, during and after the storm threat has passed.
2. If the Houston area is impacted by a storm employees should (as soon as possible) use the steps noted in the Hurricane Check-in Procedure (Section 4 of this Manual) to inform the Company of your status and monitor the situation.
3. Use the Key Phone Lists and Resources as needed (Section 5 of this Manual) to communicate and take care of business in your area.

**Olefins & NGL
Hurricane Manual
Table of Contents**

1. Hurricane Preparedness Plan
2. Hurricane Initial Contact List
3. Olefins Group Phone Book
4. Hurricane Check-in Procedure
5. Key Phone Lists and Resources
 - a. DEFCON Plan Facility Contact Information
 - b. Chevron Pipe Line - Sour Lake Team
 - c. Chevron Pipe Line - Mont Belvieu Team
 - d. Chevron Pipe Line - Control Center
 - e. ConocoPhillips Pipe Line – East/Gulf Coast Division
 - f. ConocoPhillips Pipe Line – Amarillo Division
 - g. ConocoPhillips Pipe Line – Control Center
 - h. ConocoPhillips Pasadena Terminal
 - i. NOAA Extreme Weather Information Sheet

Initial Contacts to Call for Hurricane Plan

Name	Company	Location	Title	Email Address	Office Phone	Cell Phone	Nextel Phone	Responsibility
Ron Corn	CPChem	HQ	Olefins & NGL General Manager	cornre@cpchem.com	832-813-4811	(b) (6)	281-853-7704	Corn
Michele Mahoney	CPChem	HQ	Light Olefins Mgr	wangml@cpchem.com	832-813-4784			Corn
Steve Thomann	CPChem	HQ	Ethylene Product Specialist	thomans@cpchem.com	832-813-4466			Corn
Randy Bryan	CPChem	HQ	Propylene Product Specialist	bryanrd@cpchem.com	832-813-4469			Corn
Lou Compton	CPChem	HQ	Ethylene Manager	comptlr@cpchem.com	832-813-4618			Corn
Martin Dale	CPChem	HQ	Feedstock Procurement Mgr	dalemq@cpchem.com	832-813-4470			Corn
Ben Robles	CPChem	HQ	Logistics & Distribution Mgr	roblebr@cpchem.com	832-813-4828			Corn
Bill Stephens	CPChem	HQ	PL & Terminals Mgr	stephwa@cpchem.com	832-813-4467			Corn
Mahima Khanna	CPChem	HQ	Heavy Olefins Specialist	khannm@cpchem.com	832-813-4471			Corn
Gary Scott	CPChem	HQ	PL Operations Mgr	scottgk@cpchem.com	281-421-6935			Corn
Scott Sharp	CPChem	HQ	VP EH&S	SHARPMS@cpchem.com	832-813-4409			Corn
Margie Conway	CPChem	PA	Plant Manager	CONWAMI@cpchem.com	409-985-0731			Mahoney
Tom Gilligan	CPChem	PA	Operations Manager	GILLITJ@cpchem.com	409-985-0851			Mahoney
Van Long	CPChem	CB	Plant Manager	LONGVG@cpchem.com	281-421-6578			Mahoney
Gary Piana	CPChem	CB	Operations Manager	PIANAGL@cpchem.com	281-421-6105			Mahoney
Matt Frey	CPChem	CB	EU-1592 Unit Supervisor	FREYWM@cpchem.com	281-421-6203			Mahoney
Bill Turk	CPChem	CB	Technical Manager	TURKWM@cpchem.com	281-421-6103			Mahoney
Ron Zimmer	CPChem	CB	Maintenance Manager	ZIMMERL@cpchem.com	281-421-6478			Mahoney
Wayne McDowell	CPChem	SW	Plant Manager	MCADOWCW@cpchem.com	979-491-5520			Mahoney
Art Orscheln	CPChem	SW	Operations Manager	ORSCHAE@cpchem.com	979-491-5563			Mahoney
Kristen Brown	CPChem	SW	COP Liason	SWATEKM@cpchem.com	979-491-5525			Mahoney
Stephen Goff	CPChem	SW	Maintenance Manager	GOFFSG@cpchem.com	979-491-5529			Mahoney
Lee Virgel	CPChem	SW	Terminal & PL Team Leader	VIRGELA@cpchem.com	979-491-5928			Mahoney
Eileen McGrath	CPL	BOB	Operations Mgr, Texas	EAMC@chevron.com	713-432-3539			Robles
Richard Lucas	CPL	BOB	Operations Specialist, Chemicals	RLUCAS@chevron.com	713-432-2654			Robles
Ken Yoss	CPL	BOB	Control Center Manager	KYOS@chevron.com	713-432-6227			Robles
Benny Rager	CPL	BOB	Console Supervisor	BWRB@chevron.com	713-432-6127			Robles
Mike Smith	CPL	MtB	Team Leader, Mt Belvieu	MSMITH@chevron.com	281-385-7822			Robles
Mark Clamon	CPL	MtB	Operations Supervisor, Mt Belvieu	Mclamon@chevron.com	281-385-7820			Robles
Ronnie Kring	CPL	SL	Team Leader, Sour Lake	JRKR@chevron.com	409-951-4427			Robles
Greg Kucera	CPL	SL	Operations Supervisor, Sour Lake	GregKucera@chevron.com	409-951-4404			Robles
Rodger Lewis	CPPL	Amarillo	Division Manager, Panhandle PL	Rodger.L.Lewis@conocophillips.com	806-275-5370			Robles
John Roark	CPPL	Houston	Division Manager, E/G Pipelines	J.Roark@conocophillips.com	832-379-6209			Robles
Alvin Brass	CPPL	Houston	Division Manager, E/G Terminals	Alvin.Brass@conocophillips.com	337-255-2444**			Robles
Billy Cunningham	CPPL	Ponca City	Console Supervisor	William.D.Cunningham@conocophillips.com	580-767-4609			Robles
Dennis Close	CPPL	Ponca City	Control Center Director	dennis.h.close@conocophillips.com	580-767-5493			Robles
Daryl Evans	CPPL	Ponca City	NGL Scheduler	Daryl.W.Evans@conocophillips.com	918-661-3697			Robles
Ron Clark	CPPL	Ponca City	NGL Scheduler	Ron.L.Clark@conocophillips.com	918-661-6101			Robles
Francis Foret	Targa	MtB	Facility Manager	fforet@targaresources.com	281-385-3122			Robles
David Clark	Targa	Galena Pk	Facility Manager	dbclark@targaresources.com	713-450-7206			Robles

**Cell phone first

Tier 1 Olefins & NGL

Tier 2 Olefins & NGL

Olefins Group Phone Book						
Name	Address	Work #	Home	Cell	E-Mail	Personal E-Mail
		832-813	(b) (6)			
Armer, AJ	5511 Cartagena Houston, TX 77035	4429	(b) (6)			
Buhlig, Tim	2 Serene Creek Place The Woodlands, TX 77382	4308				
Bryan, Randy	7119 Uther Court Spring, TX 77379	4469				
*Burgess, Ray	222 Driftwood Dr. Taylor Lake Village, TX 77586	281-421-6382				
Christman, Patrick	26 Quince Tree Place The Woodlands, TX 77385	4832				
Compton, Lou	8311 Mallard Crest Drive Humble, TX 77346	4618				
Corn, Ron	19 Carriage Pines Ct. The Woodlands, TX 77380	4611				
Dale, Martin	19314 Diamond Park Circle Spring, TX 77373	4470				
Franklin, Anne	26001 Budde Rd. #103 Spring, TX 77380	4839				
Guthrie, Gary	218 Kilts Dr. Houston, TX 77024	4387				
Khanna, Mahima	923 E. Heights Hollow Lane Houston, TX 77007	4471				
Kunz, Glenn	33202 East Border Oak Park Magnolia, TX 77354	4464				
Landry, Stephen	171 E. Elm Crescent The Woodlands, TX 77382	4459				
Mahoney, Michele	3126 Nottingham St. Houston, TX 77005	4784				
Marotta, Virginia	1238 Shillington Dr. Katy, TX 77450	4830				
Moshfeghian, Ali	11905 Red Cedar Circle Spring, TX 77380	4296				
Panchalingam, Theepan	1223 Roberts St. Houston, TX 77003	4215				
*Polito, Chuck	12238 Pine Lands Park Lane Humble, TX 77346	281-421-6651				
*Prickett, Rick	1955 River Falls Drive Kingwood, TX 77339	281-421-6927				
Robles, Ben	3402 Forest Row Drive Kingwood, TX 77345	4828				
*Scanlon, Lee	6818 Wild Violet Drive Humble, TX 77346	281-421-6495				
Scott, Gary	16131 Old Sour Lake Rd Beaumont, TX 77713	281-421-6935				
Stephens, William	3603 Bear Lake Dr. Kingwood, TX 77345	4467				

Olefins Group Phone Book						
Name	Address	Work #	Home	Cell	E-Mail	Personal E-Mail
		832-813	(b) (6)			
Thomann, Stephen	2111 Crosscoach Ln. Katy, TX 77449	4466			thomans@cpchem.com	sst8359@yahoo.com

(b) (6)



Hurricane Isabel, September 17, 2003.
to courtesy of NASA.

Hurricane check-in procedures

Hurricanes, tropical storms, environmental or security emergencies, and plant incidents can impact your ability to report to work. Even in an emergency situation, it is vital that you keep the company apprised of your circumstances and availability. If you are unable to report to work due to an emergency or crisis, there are four steps to take:

Step 1: Check In By Phone

Call the All Employee Check In Hotline at **800-801-4253**. Operators will gather information such as reliable contact numbers and your current location. Once you have checked in, you do not need to call the All Employee Check In Hotline again unless your status changes.

Step 2: Check In By Email

If you cannot reach the All Employee Check In Hotline by phone, you can send an email to cpchem@us.crawco.com. At a minimum you should provide the following in your email:

- First and last name (and nickname if commonly used)
- Work location
- Contact phone number in your current location
- Home status (sheltering in place, staying with family elsewhere, other)

Both the Employee Check In Hotline and email address can be used by employees, their families, contractors, and friends to report the whereabouts of another employee or contractor.

Step 3: Call Your Facility's Emergency Information Hotline (HQ: 1-800-622-9881)

At least once per day, call your facility's Emergency Information Hotline for status updates on plant conditions, restarts, report back to work dates, and the like.

Step 4: Monitor www.cpchem.us

In the event of an emergency, a crisis information web page will be activated. It will include emergency phone numbers, plant status updates, as well as emergency and disaster relief policies. The site will be accessible from any computer with internet access. If you do not have Internet access, continue to call your facility's emergency information phone number at least once a day for updates.

Helpful Information

The following websites offer useful information for tracking storms and preparing for severe weather:

- National Hurricane Center: <http://www.nhc.noaa.gov>
- DHS Ready.gov hurricane preparedness: <http://www.ready.gov/america/beinformed/hurricanes.html>
- FEMA Hurricane Preparedness Page: <http://www.fema.gov/hazard/hurricane/index.shtm>
- U.S. Coast Guard Storm Center: <http://www.uscg.mil/news/stormcenter/>
- CPChem: <http://nsight.cpchem.net/departments/humanresources/hurricaneprep/Pages/default.aspx>

Table 3: Facilities

Facility	Operations Communication		Operation/Management Communication	
	Position or Contact	Phone/Email	Position or Contact	Phone/Email
Sweeny EU-22	Sweeny Stock Dispatch	979-491-2206 office 979-491-5775 office 979-647-4988 office	Art Orscheln Operations Mgr.	979-491-5563 office 979-925-0739 pager (b) (6) cell home
	Shift Coord. "602"	979-491-2871 office 979-491-5776 office (b) (6) cell	Kristen Brown Business Logistics Analyst	979-491-5525 office 979-925-0157 pager (b) (6) cell home
	Shift Supt. "601"	979-491-2384 office (b) (6) cell	Jin Zhao U22 Superintendent	979-491-5676 office 979-925-0201 pager (b) (6) cell home
			Lee Virgel Clemens Supervisor	979-491-5928 office 979-925-0346 pager (b) (6) cell home
Sweeny EU-24	Sweeny Stock Dispatch	979-491-2206 office 979-491-5775 office 979-647-4988 office	Art Orscheln Operations Mgr.	979-491-5563 office 979-925-0739 pager (b) (6) cell home
	Shift Coord. "602"	979-491-2871 office 979-491-5776 office (b) (6) cell	Kristen Brown Business Logistics Analyst	979-491-5525 office 979-925-0157 pager (b) (6) cell home
	Shift Supt. "601"	979-491-2384 office (b) (6) cell	Jeff Edwards U24 Superintendent	979-491-5558 office 979-925-0117 pager (b) (6) cell home
			Lee Virgel Clemens Supervisor	979-491-5928 office 979-925-0346 pager (b) (6) cell home
Sweeny EU-33	Sweeny Stock Dispatch	979-491-2206 office 979-491-5775 office 979-647-4988 office	Art Orscheln Operations Mgr.	979-491-5563 office 979-925-0739 pager (b) (6) cell home
	Shift Coord. "602"	979-491-2871 office 979-491-5776 office (b) (6) cell	Kristen Brown Business Logistics Analyst	979-491-5525 office 979-925-0157 pager (b) (6) cell home
	Shift Supt. "601"	979-491-2384 office (b) (6) cell	Bill O'Brien U33 Superintendent	979-491-5649 office 979-925-0594 pager (b) (6) cell home
			Lee Virgel Clemens Supervisor	979-491-5928 office 979-925-0346 pager (b) (6) cell home
Sweeny NGL Units	Sweeny Stock Dispatch	979-491-2206 office 979-491-5775 office 979-647-4988 office	Art Orscheln Operations Mgr.	979-491-5563 office 979-925-0739 pager (b) (6) cell home
	Shift Coord. "602"	979-491-2871 office 979-491-5776 office (b) (6) cell	Kristen Brown Business Logistics Analyst	979-491-5525 office 979-925-0157 pager (b) (6) cell home
	Shift Supt. "601"	979-491-2384 office (b) (6) cell	Robert Ricker NGL Superintendent	979-491-5614 office 979-925-0024 pager (b) (6) cell home
			Lee Virgel Clemens Supervisor	979-491-5928 office 979-925-0346 pager (b) (6) cell

				(b) (6) cell home
Clemens Terminal	Sweeny Stock Dispatch	979-491-2206 office 979-491-5775 office 979-647-4988 office	Art Orscheln Operations Mgr.	979-491-5563 office 979-925-0739 pager (b) (6) cell home
	Shift Coord. "602"	979-491-2871 office 979-491-5776 office (b) (6) cell	Kristen Brown Business Logistics Analyst	979-491-5525 office 979-925-0157 pager (b) (6) cell home
	Shift Supt. "601"	979-491-2384 office (b) (6) cell	Lee Virgel Clemens Supervisor	979-491-5928 office 979-925-0346 pager (b) (6) cell home
Freeport Terminal (BTX,DAC)	Sweeny Stock Dispatch	979-491-2206 office 979-491-5775 office 979-647-4988 office	Art Orscheln Operations Mgr.	979-491-5563 office 979-925-0739 pager (b) (6) cell home
	Shift Supt. "601"	979-491-2384 office (b) (6) cell	Kristen Brown Business Logistics Analyst	979-491-5525 office 979-925-0157 pager (b) (6) cell home
	Shift Coord. "602"	979-491-2871 office 979-491-5776 office (b) (6) cell	Scott Barber	979-239-2093 office 979-925-0424 pager (b) (6) cell home
			Billy W Stephens	979-239-4192 office 979-235-2511 pager (b) (6) home
Port Arthur EU-1544	Shift Supervisor(s)	409-985-0760 409-985-0830 alternate	Mike Dubose Operations Assistant	409-985-0759 office (b) (6) cell 409-723-9432 pager dubosme@cpchem.com
	Jonathan Cornwell	cornwjk@cpchem.com	Nick Graham Area Supervisor	409-985-0757 office (b) (6) cell home grahajn@cpchem.com
	Jimmy Byrd	byrdjc@cpchem.com	Tom Gilligan Operations Mgr. Port Arthur Plant	409-985-0851 office (b) (6) cell gillitj@cpchem.com
	Fred Hudson	hudsonfh@cpchem.com	Margie Conway Plant Manager Port Arthur Plant	409-985-0731 office (b) (6) cell conwami@cpchem.com
	Reggie Sinegal	Sinegre@cpchem.com	Eric Niemeyer Operating Engineer	409-985-0821 office (b) (6) cell niemeer@cpchem.com
	Tommy Lee	leet@cpchem.com	Chris Schulte Operating Engineer	409-985-0997 office (b) (6) cell schules@cpchem.com
			Manzoor Khan Operating Engineer	409-985-0872 office (b) (6) cell zhaoj@cpchem.com
Port Arthur - 1741	Shift Supervisors	409-985-0760	Ken Furby Aromatics Area Supervisor	409-985-0803 office (b) (6) cell furbykw@cpchem.com
Port Arthur - 1741	Control Room	409-985-0834	Darrell Simien Operations Assistant	409-984-0157 office 409-726-4927 pager (b) (6) cell simiedj@cpchem.com
Port Arthur CPC - Dock	Control Room	409-985-3951	Paul Burk Operations Assistant	409-982-5531 office (b) (6) cell burkpr@cpchem.com
Cedar Bayou EU-1592	Shift Supervisor	281-421-6394 Office	1592 Unit Supr Matt Frey	281-421-6203 office (b) (6) cell home freymw@cpchem.com

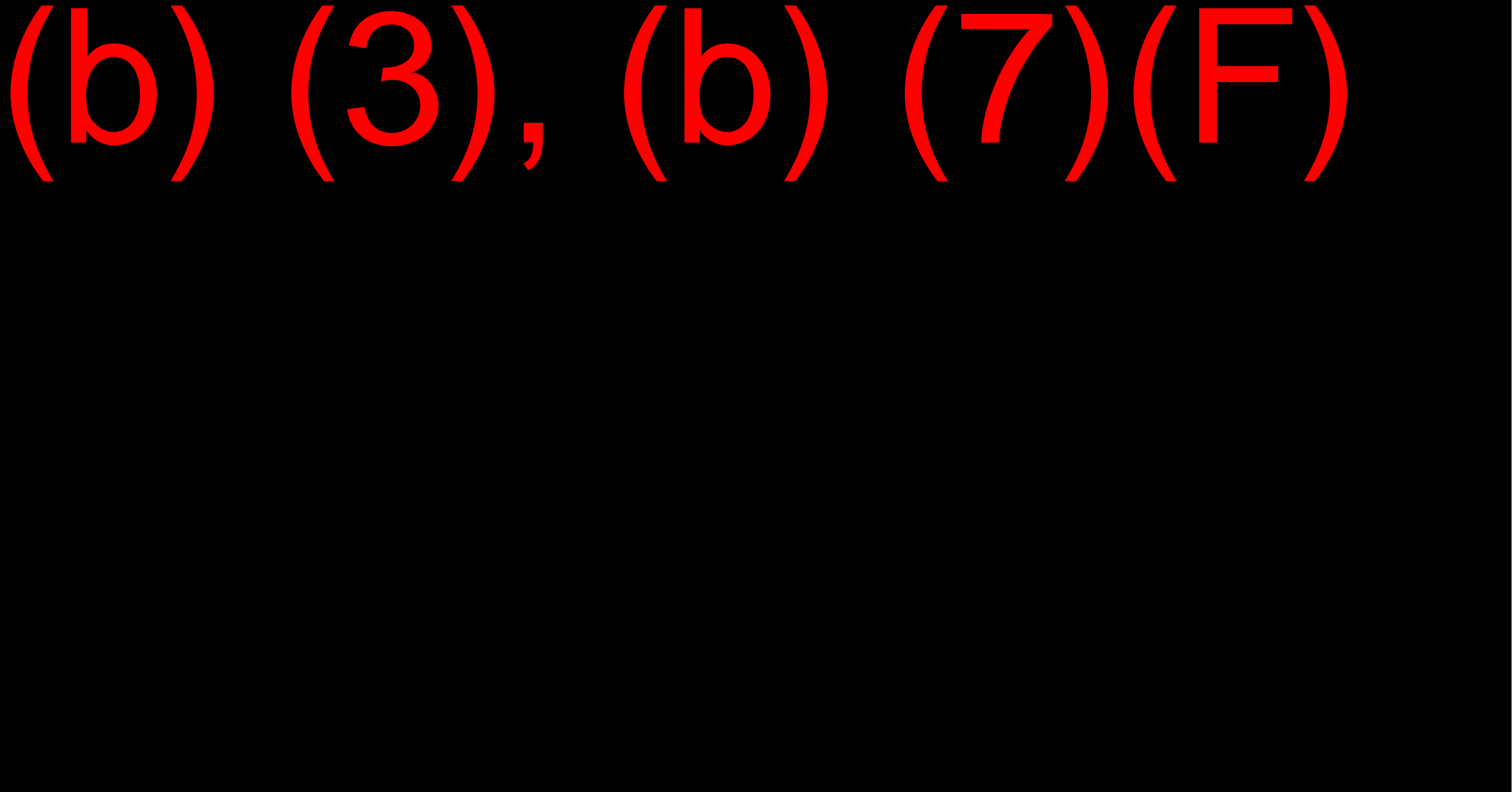
	Board Operators	281-421-6393 Hot Control Board 281-421-6392 Cold Control Board	Operations Assistant Kevan Foshee	281-421-6137 office (b) (6) cell fosheko@cpchem.com
	Becky Spaller Hot Side Operations Engr.	281-421-6409 office	Nicole Wright Cold Side Operations Engr.	281-421-6343 office
Cedar Bayou PEU-1792	Shift Supervisor	281-421-6214	Joe Parsons	281-421-6778 office (b) (6) home 281-981-0312 pager parsojp@cpchem.com
	Board Operators	281-421-6215 281-421-6338	Cary Lacour Operations Maintenance Coordinator	281-421-6168 office lacoucl@cpchem.com
	Pat Hedges Operations Assistant	281-421-6451 office 281-981-0328 pager hedgejp@cpchem.com	TJ Vera Operations Engineer	281-421-6833 office 281-981-0064 pager VERAT@cpchem.com
Cedar Bayou PEU-1796 & PEU-1799	Shift Supervisor	281-421-6481	Unit Supervisor Mike Dykhous	281-421-6548 office 281-981-0572 pager (b) (6) cell dykhomj@cpchem.com
	Board Operators	281-421-6433 281-421-6446	Operations Engineer Shannon Parker	281-421-6635 parkesm@cpchem.com
	Day SS Billy Sherman	281-421-6610 shermbe@cpchem.com	Operations Assistant Larry Auzenne	281-421-6491 auzenlj@cpchem.com
Cedar Bayou Shipping	Shift Supervisor	281-421-6577	Unit Supervisor Tim Kelley	281-421-6221 office (b) (6) home cell 281-981-0401 pager kelletl@cpchem.com
			Operations Assistant Joseph Pigford	281 421-6184 office 281 421-6182 Fax (b) (6) cell 281-981-0421 pager pigfojm@cpchem.com
Cedar Bayou Alpha Olefins	Shift Supervisor	281-421-6430	Unit Supervisor Phil Hoener	281-421-6291 Office (b) (6) Cell Pager 281-713-2047 Home hoenepa@cpchem.com
NAO-1798	Console Operators	281-421-6422	Operations Engineer Jennifer Romig	281-421-6953 Office (b) (6) Cell 281-981-0659 pager romigjl@cpchem.com
NAO-1797	Console Operators	281-421-6423	Operations Assistant Doug Isaacks	281-421-6682 Office 281-981-0643 Pager (b) (6) Cell Isaacdw@cpchem.com
PAO-1795	Console Operator	281-421-6646	Day Shift Supervisor John Baker	281-421-6815 Office (b) (6) Cell 281-981-0649 Pager bakerjff@cpchem.com
PPC Polyethylene	Night Supts	713-475-3612 (office) 713-475-3624 (security) Security has on-duty Nights Supts' pager number	Mike Gilbert PPC Operations Mgr.	713-475-3403 (office) 713-601-0007 (pager) (b) (6) cell (b) (6) home
	Night Supts	713-475-3612 (office) 713-475-3624 (security) Security has on-duty Nights Supts' pager number	Terry Kaspar Plant 6 Operations Supt	713-475-3608 (office) 979-925-0726 (pager) (b) (6) cell (b) (6) home
	Night Supts	713-475-3612 (office) 713-475-3624 (security) Security has on-duty Nights Supts' pager number	Travis Rogers Plant 7 Operations Supt	713-475-5619 (office) 713-616-0833 (pager) (b) (6) (cell) (b) (6) (home)
	Night Supts	713-475-3612 (office) 713-475-3624 (security)	Elliott Johnson Plant 8	713-475-3804 (office) 713-549-3118 (pager)

		Security has on-duty Nights Supts' pager number	Operations Supt	(b) (6) (cell) (b) (6) (home)
PPC Polypropylene	Night Supts	713-475-3612 (office) 713-475-3624 (security) Security has on-duty Nights Supts' pager number	Mike Gilbert PPC Operations Mgr.	713-475-3403 (office) 713-601-0007 (pager) (b) (6) (cell) (b) (6) (home)
	Night Supts	713-475-3612 (office) 713-475-3624 (security) Security has on-duty Nights Supts' pager number	Nick Spencer PP Operations Supt	713-475-3898 (office) 713-404-1439 (pager) (b) (6) (cell) (b) (6) (home)
PPC K-Resin	Night Supts	713-475-3612 (office) 713-475-3624 (security) Security has on-duty Nights Supts' pager number	Mike Gilbert PPC Operations Mgr.	713-475-3403 (office) 713-601-0007 (pager) (b) (6) (cell) (b) (6) (home)
	Night Supts	713-475-3612 (office) 713-475-3624 (security) Security has on-duty Nights Supts' pager number	Bryan Kubsch KR Operations Supt	713-475-3948 (office) 713-549-0804 (pager) (b) (6) (cell) (b) (6) (home)
Orange PE	Shift Supervisors	409-882-6232 409-882-6794 – Control Room	Chris West Operations Manager	409-882-6210 (office) (b) (6) (cell) (b) (6) (home)
			Leanord Powell Operations Assist.	409-882-6088 office 409-734-2883 pager (b) (6) home
			Rick Kinder Plant Manager	409-882-6300 office (b) (6) cell kindera@cpchem.com
American Styrenics St. James	Shift Supervisor	225-746-5600	2 nd Warren Hachet Operations Engineer	225-746-5592 office (b) (6) cell wjhachet@amstyrenics.com
	Console Operators	225-746-5601 225-746-5634	2 nd Andrea King Lead Process Engineer	225-746-5603 office (b) (6) cell adking@amstyrenics.com
			1st Glen Ourso Operations Coordination Supr.	225-746-5581 office (b) (6) cell phone gjourso@amstyrenics.com
Targa Mont Belvieu	Chemical Desk Operator	281-385-3152 work (b) (6) cell	Cheryl Cole Logistics	281-385-3121 work (b) (6) home (b) (6) cell ccole@targaresources.com
			Rhonda Hartley Scheduler	281-385-3119 work (b) (6) cell (b) (6) home RHartley@targaresources.com
			Francis Foret Operations Mgr.	281-385-3122 office (b) (6) cell (b) (6) home <u>FForet@targaresources.com</u>
			Bryan Crismon Maintenance Mgr.	281-385-3103 office (b) (6) cell BCrismon@targaresources.com
			Mike Taylor Terminal Ops Supr.	281-385-3216 office (b) (6) cell MTaylor@targaresources.com
Targa Galena Park	Control Room Operator 1	713-450-7243	David Clark Facility Mgr.	713-450-7206 (Work) (b) (6) (Home) 713-719-1010 (Pager) (b) (6) (Mobile) DBClark@targaresources.com
	Control Room Operator 2	713-450-7215	Gery Gill Logistics	713-450-7207 (Work) (b) (6) (Home) 713-719-1021 (Pager) (b) (6) (Mobile)

				TARGA 8" NORTH ROUTE (PPMix) GGill@targaresources.com
Buckeye Pipe Line (TARGA lines, NOT CPCChem lines)	Mont Belvieu, TX BGC Dispatcher – Console 4 Email: bgcdispacher4@ buckeye.com	281-576-3026 (desk) 281-385-0788 (fax) Targa 8" North Route (PPMix) Targa 8" Cedar Bayou to Galena Park & Kinder Morgan (BDFS, isoprene, HPG, HAD)	Mark Collins Operations Manager Dale Corbello District Manager	936-336-5773 (x11) (work) (b) (6) (cell) mcollins@buckeye.com 281-576-3014 (work) (b) (6) (cell) dcorbello@buckeye.com
OneOK Mont Belvieu Storage	Control Room	281-385-5000		
Enterprise Mont Belvieu	Control Room West (Sweeny Feedstock) Control Room East (EP/Purity)	281-385-0221 281-385-0215		

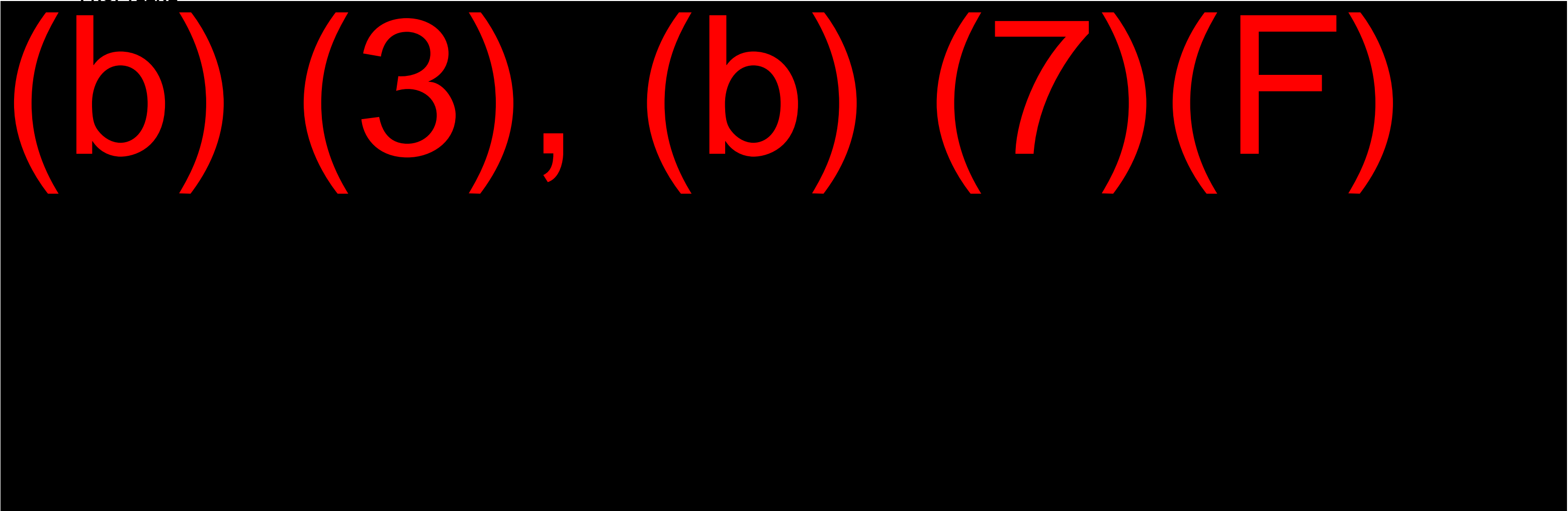
PT ARTHUR & OUTLYING AREAS

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PROPYLENE

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EAST FEEDSTOCK																			
(b) (3),																			

PT ARTHUR & OUTLYING AREAS

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(b) (3), (b) (7)(F)



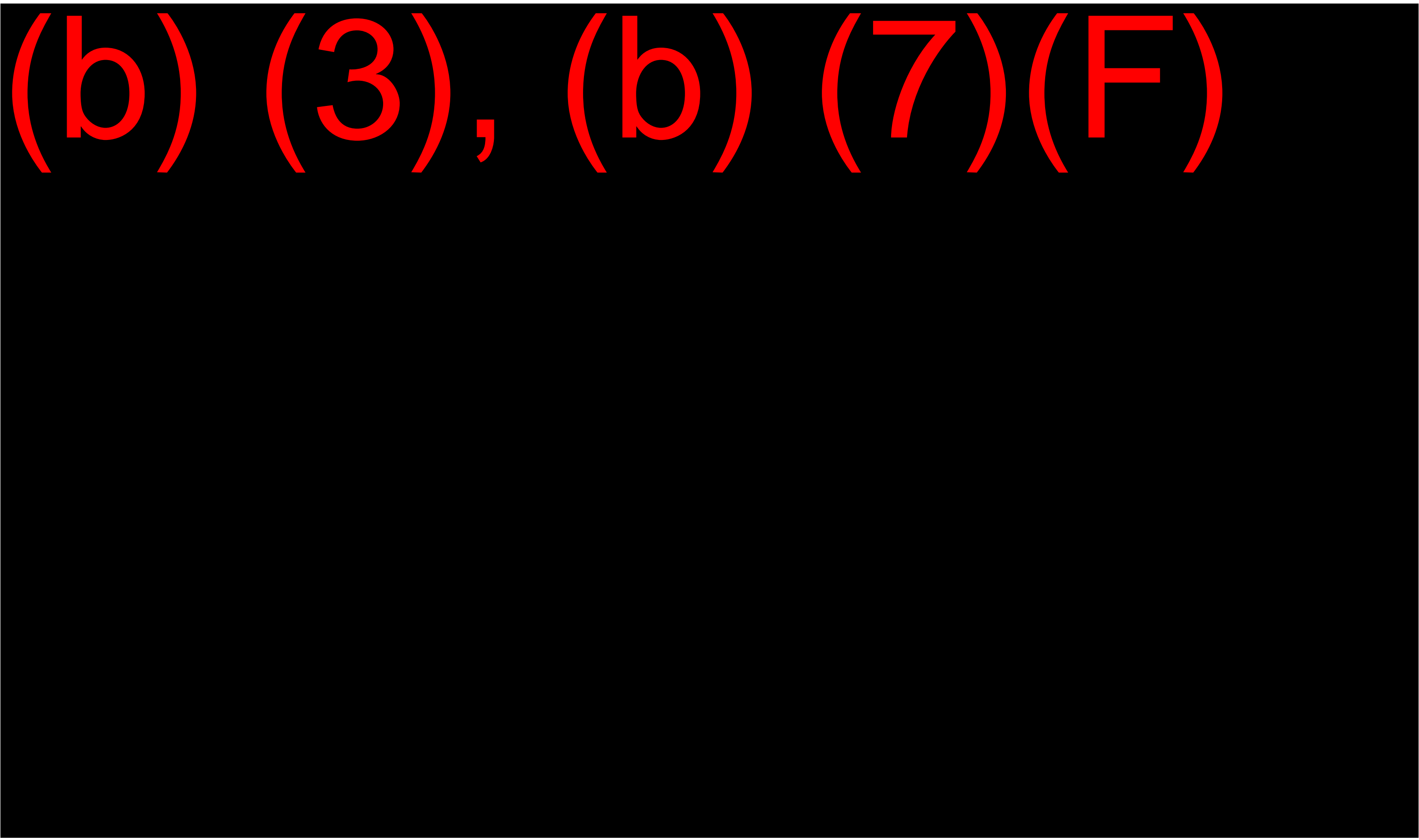
North Ethylene

CPC PLANT PT ARTHUR & DOCKS AREAS

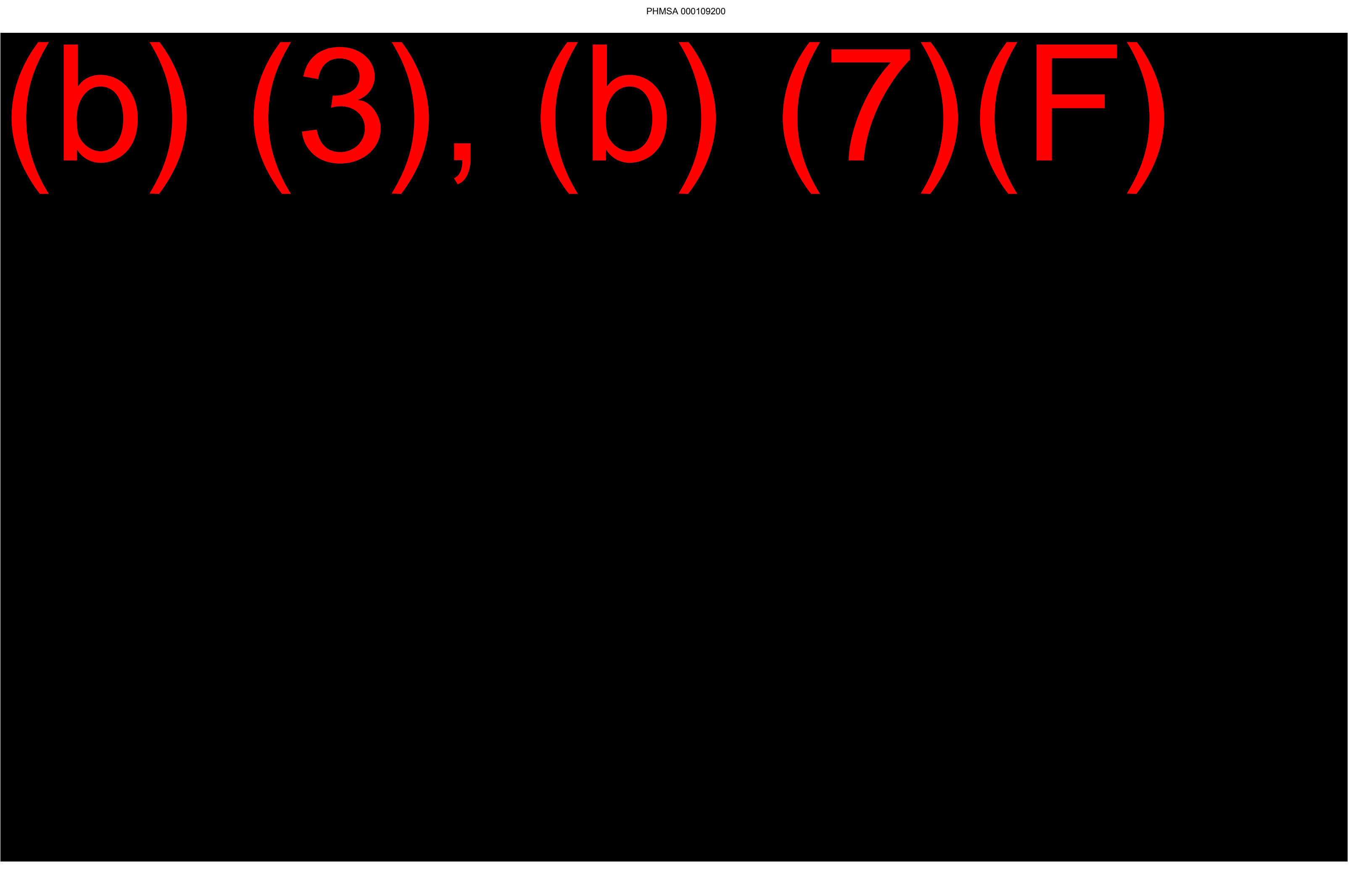
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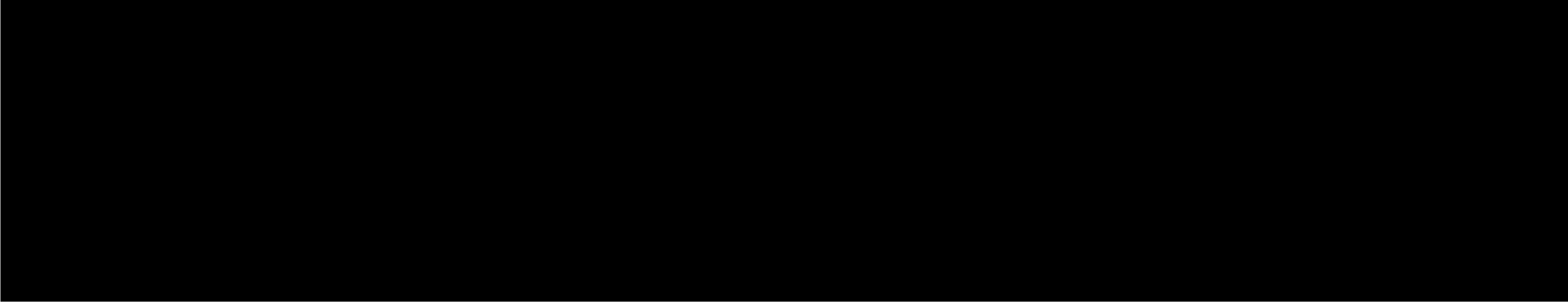
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SWEENY PIPELINE EMERGENCY PROCEDURES

SECTION 10

TEXAS STATE APPENDIX

SWEENEY PIPELINE EMERGENCY PROCEDURES

SECTION 10 SWEENEY PIPELINE EMERGENCY PROCEDURES

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EMERGENCY RESPONSE PROCEDURES: [REFERENCE: 49CFR192.615 & 49CFR195.402]

Response to Sweeny Complex pipeline emergencies will be conducted in accordance with the Sweeny Complex Integrated Contingency Plan and the Sweeny Complex Oil Discharge Prevention and Response Plan (Reference: 49CFR194).

The following emergency procedures provide supplemental information for personnel involved in a pipeline spill.

Emergency procedures have been designed to (1) provide safety to the public and company personnel when threatened by escape of hydrocarbons from a pipeline and (2) coordinate activities for prompt and safe repair of the pipeline and return to normal operations. The highest priority in any pipeline emergency is the safety and well being of all people and the surrounding community. Limiting damage to the physical features of the pipeline is of secondary importance.

The following information is intended to provide guidance and to be a reference source in handling emergencies. Procedures followed during an emergency depend on all the conditions encountered and the type of emergency.

Immediate Response Criteria

Sweeny Refinery Operations and Terminal personnel operating pumps or compressors discharging into the pipeline will need to identify those events which require immediate response. These events include:

1. Extreme pressure reduction or increase on pipeline or pipeline pumps.
2. Extreme flowrate changes on pipeline or pipeline pumps.
3. Extreme measurement losses or gains on pipeline flow.

The Sweeny Refinery Stock Dispatcher or the Refinery Shift Superintendent will normally receive notices of an emergency nature which require immediate response. These notices include:

1. Release of hazardous liquids or gas from a pipeline.
2. Operational malfunction causing a hazardous condition on the pipeline.

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3. Fire, explosion, or natural disaster involving pipelines.
4. Notification of a potential leak or hazard.

Notice of events requiring immediate response will be passed on to the Sweeny Refinery Shift Superintendent, "601", to assess the situation and take necessary procedures to shutdown the affected pipeline and/or control the hazardous condition.

Stock Dispatchers Response Procedures:

Whenever any of the above events have occurred, the Stock Dispatcher will take emergency actions as outlined below:

1. Notify the Sweeny Refinery Shift Superintendent that an emergency or possible emergency situation has occurred on the pipelines. (See Shift Superintendent Responsibilities)
2. If telephone notification of a leak is given then the Stock Dispatcher will ask the caller for the following information:
 - a. Callers identity
 - b. Exact location of incident
 - c. A description of what was leaked or spilled.
 - d. Other pertinent information.
 - e. Ask caller to repeat the above information.
3. Assist in contacting the appropriate Stock personnel to locate the leak and/or evaluate the extent of the emergency. See the Emergency Contact list in this section.
4. Stock Dispatcher will inform the appropriate Terminal personnel to shutdown a pipeline pump and/or block in a pipeline when informed to do so by the Sweeny Refinery Shift Superintendent or Incident Commander.

Sweeny Refinery Shift Superintendent Response Procedures:

The Refinery Shift Superintendent will remain in the plant in the event of an emergency. He will be the primary contact in shutting down or performing other necessary actions with Sweeny's Operations Department. His response will include:

1. Direct the shutdown of the affected pipeline and/or any units affected by the pipeline shutdown.

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2. Coordinate the effort to find the location of the pipeline leak, including notifying personnel. (A table of pipelines, product contained, the location of the pumps and/or pressure sources to pipelines is included in the back of this section for quick reference.)
3. Direct the shutdown of nonessential and/or suspected leaking pipelines as the Incident Commander requests.
4. Coordinate communications with the plant, Incident Commander, and Terminals.
5. Deploy emergency plant personnel and equipment to the leak site as requested.
6. Activate the Sweeny Complex Emergency Call Out List (See Sweeny Emergency Procedures Manual Section I) to notify Sweeny Refinery key personnel of the emergency if required.
7. When asked by the Incident Commander, request state and local agencies for assistance, i.e. law enforcement agencies, fire departments, and/or ambulances. (See Emergency Contact List included in this section.)
8. Notify Environmental Team for Federal, State, and Local Agency notifications.

Onsite Incident Commander Response Procedures

The Senior Terminal Team Representative present will be the initial Onsite Incident Commander. The incident commander will take emergency procedures as outlined below:

1. Upon arrival at the leak site the Incident Commander will make note of the wind speed and direction. The leak site will be approached from the upwind side.
2. Initial efforts will be directed toward determining which pipeline in the corridor is leaking, the extent of the leak or fire, the flammable atmosphere area, and the elimination of any nearby ignition sources. These efforts will be coordinated with the Safety Representative at the site.

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3. If houses or buildings are in the vicinity of the contaminated area, occupants shall be evacuated immediately.
4. Roads that are affected shall be barricaded or blocked to prevent traffic from entering the affected area. Detour routes around the location will be set up by local law enforcement agencies up as time and manpower permit.
5. Request that utilities and/or railroad companies be notified if they might be affected.
6. The Incident Commander will inform the Shift Superintendent to call plant and law enforcement personnel as needed to assist in isolating the area, evacuating residents, fire fighting, and controlling traffic and spectators.
7. Inform law enforcement and rescue personnel of the product involved including the nature of the product and any known adverse effects of product exposure.
8. Assist rescue personnel in attending to the injured, initiating first aid, and transporting injured.
9. The Incident Commander will contact the Shift Superintendent to direct the shutting down and blocking in of the affected line if known or of other pipelines in the area if the affected pipeline is unknown. The line(s) will first be blocked in at the Sweeny Refinery and Terminal pressure sources, as these are the locations where manpower is available 24 hours per day. If available, additional block valves along the right of way will be closed. (A table of pipelines, product contained, the location of the pumps and/or pressure sources to pipelines is included for quick reference in case of an emergency at the back of this section.)
10. After the leak area is secured, the Incident Commander will direct efforts towards securing the pipeline and containing the spilled product. Particular emphasis will be placed on containing products in or around existing waterways.
11. Assist Maintenance personnel in repairing the line.

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Safety and Equipment Inspection Representatives Response Procedures:

The Safety Representative from the Personnel Safety Group and the Equipment Inspection Representative from the Plant Service Group will assist the Incident Commander as follows:

1. Assist in initial efforts of determining which pipeline in the corridor is leaking, the extent of the leak or fire, the flammable atmosphere area, and the elimination of any nearby ignition sources. The Personnel Safety representative will be responsible for determining what flammable atmosphere is present at the leak site.
2. Assist in the evacuation of buildings in the vicinity of the contaminated area and the barricading of traffic along the site.
3. Refinery Personnel Safety will evaluate site conditions to determine what personal protective gear will be needed at the leak.
4. Coordinate rescue efforts with local officials and/or Sweeny Refinery Rescue Teams.
5. Determine when the site is secure for Maintenance personnel to repair line.

Maintenance Response Procedures:

1. Provide necessary assistance in containing the leak.
2. Determine the best method of making repairs to the pipeline with the Safety Representative.
3. Coordinate the manpower and equipment necessary to perform the repair. (Refer to Part VII for line repairs)
4. Complete final cleanup to leave area in as good or better condition than before the leak occurred.

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EMERGENCY CONTACT LIST

SWEENEY COMPLEX, SWEENEY REFINERY

Primary 24 Hour Contacts

Shift Superintendent COP	979/491-2384 or 979/491-2200
Shift Superintendent CPC	979 491-5776
Stock Dispatcher	979/491-2200 or 979/491-2206 or 979/491-2236

Terminals and Stock Teams

ConocoPhillips

Kevin Stein	Freeport/Jones Creek Team Leader	979 491-2334
Darin Fields	Shared Services Manager	979 491-2204
Chris Coon	Production Manager	979 491-2471
L. D. Baugh	Stock Team Leader	979/491-2373

Chevron Phillips

M. C. Hickey	Pipeline Superintendent	979/491-5630
Jody McDougal	Pipeline Engineer	979/491-5665
Lee Virgel	Clemens Terminal Supervisor	979/491-5928

Safety and Equipment Inspection Departments

James Dosch	EHS Manager COP	979/491-2203
John Hellstrom	EHS Manager CPC	979/491-5550

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E. Mathis Equipment 979/491-2200 X-3860
 Inspection COP

B. Lowery Equipment 979/491-5608
 Inspection CPC

Environmental Departments

ConocoPhillips

Cindy Jordy Environmental 979 491-2707
 Team Leader

G. P. Bonin Environmental 979/491-2423
 Specialist

Chevron Phillips

Jennifer Ashcraft Environmental 979 491-5639
 Supervisor

Al Roco Environmental 979/491-5541
 Specialist

SWEENEY COMPLEX, TERMINALS

Primary 24 Hour Contacts

Clemens Terminal 979/491-5925

Freeport I Terminal 979/239-4190
 979/239-4191

Jones Creek Terminal 979/239-2090
 979/239-2091

San Bernard Terminal 979/491-2397
 979/548-9903

Terminal Maintenance

Marc Locke Clemens 979/491-5937

T. Sweet Maintenance COP 979/239-2096

OTHER CONTACTS

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PTRE&C Personnel

Keven Startz 281/293-5062

J. W. Wehrman 281/293-5055 or 5968
(M) 281/468-9310

Gary Holman 281/293-5046

Pipeline Surveillance

Reynolds Aviation 281-573-9996
Dennis Barker 281-842-1001

CONTRACTORS

Zachary Construction Corp. 979/491-2897
Sweeny

LAW ENFORCEMENT & FIRE DEPARTMENTS

Brazoria Sheriff 911
979/864-2214
979/849-2441

Brazoria 911
979/798-2195 979/798-2277

Freeport 911
979/239-1211 979/233-1211

Jones Creek 911
979/233-3091 979/233-3091

Sweeny 911
979/548-3111 979/548-3320

NOTE: A list of contacts with virtually every Federal, State, Local, and Industrial Agency involved in Emergency Response is kept and maintained in the Sweeny Refinery Emergency Procedures Manual.

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ACCIDENT REPORTING PROCEDURES

[REFERENCES: DOT 191.5; 195.50; 195.52; 195.54]

Notification of federal and/or state agencies will be made if a spill or release occurs that falls under their reporting guidelines as described for each agency.

Crude Pipelines

The Texas Railroad Commission Oil and Gas Division has jurisdiction over crude pipelines.

TELEPHONIC & WRITTEN NOTIFICATION is required if the release of crude oil results in:

- | |
|---|
| 1. Any fire, leak, spill, or blow-out |
| 2. Release of more than five gallons of crude oil
Or Release of 5 Barrels or More Resulting from Maintenance Activities. |

The Sweeny Complex Environmental representative or his alternate will make the telephone report to:

**Pipeline Safety Section
Texas Railroad Commission
512-463-6788**

(Within two hours following discovery)

**Texas Coastal Waters
General Land Office
(800) 832-8224**

(Within one hours following discovery)

Additionally starting Sep. 2003, all oil spills that enter or threaten Texas coastal waters, regardless of origination and amount spilled, shall be immediately reported (within one-hour) to the General Land Office via the agency's 24-hour toll free spill number (800) 832-8224.

If written notification is required, the Terminal Pipeline Specialist or Environmental Section should submit a copy of DOT Form H-8 to the Railroad

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Commission. The completed form will be typed and numbered. Two copies of the form must be submitted within 30 days after the time of discovery to the Oil and Gas Division, Texas Railroad Commission. A record copy of the form will be filed in the Sweeny Safety Files

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Liquid Pipelines

1. The Texas Railroad Commission has jurisdiction over hazardous liquid pipelines.

- A. IMMEDIATE TELEPHONIC NOTIFICATION is required if the release of a hazardous liquid results in any one of the following:

1. Death or Hospitalization of a Person.
2. Inadvertent Fire or Explosion.
3. Damage to Property Exceeding \$50,000. (This cost is to include repair costs, cost of commodity not recovered, damage to other parties, and cost of cleanup.)
4. Adverse Conditions or Violations of Quality Standards in Streams, Rivers, Lakes, Reservoirs or Other Similar Waters.
5. Any Condition, which may significantly affects human health or the environment (even though it did not meet any of the above criteria).

Once the necessary information has been obtained, the Sweeny Complex Environmental representative or his alternate will make the telephone report to:

**Pipeline Safety Section
Texas Railroad Commission
512-463-6788
(Within two hours following discovery)**

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- B. WRITTEN NOTIFICATION is required if the release or spill of a hazardous liquid results in any one of the following:

1. Explosion or Fire Not Intentionally Set by Operator.
2. Release of 5 or More Gallons of Liquid. Or Release of 5 Barrels or More Resulting from Maintenance Activities.
3. Death of Any Person.
4. Bodily Harm to Any Person necessitating Hospitalization.
5. Estimated Property Damage to the Property of the Operator or Others, or Both, Exceeding \$50,000. (This cost is to include repair costs, cost of commodity not recovered, damage to other parties, and clean up cost.)

If written notification is required, the Terminal Pipeline Specialist or Environmental Section should submit a copy of DOT Form 7000-1 to the Railroad Commission. The completed form will be typed and numbered. Two copies of the form must be sent within 30 days after the time of discovery to the Pipeline Safety Section, Texas Railroad Commission. The Texas Railroad Commission will forward one copy to the Office of Pipeline Safety, DOT. A record copy of the form will be filed in the Sweeny Safety Files.

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2. National Response Center

Whenever there is a leak on a refinery pipeline the Pipeline Specialist or Terminal Team Leader will obtain the necessary information and make an immediate telephone report to:

**National Response Center
1-800-424-8802**

The National Response Center is manned by a U.S. Coast Guard Duty Officer. The Duty Officer receiving the report will, in turn, report the information to the appropriate federal and state authorities. When making the report the following information should be obtained from the Duty Officer:

- (1) Name and title of the person on duty.
- (2) Date and time the report was called in to the NRC.
- (3) Case number assigned to the report.

The Environmental Protection Agency is informed of the leak through the National Response Center. The Sweeny Complex Environmental Team will be responsible for any subsequent contact with the Environmental Protection Agency.

3. State or Local Agencies

The Sweeny Complex Environmental Team will make a telephone contact with those state or local agencies having jurisdiction in the area of the incident.

4. Coast Guard

The Coast Guard will be notified through the National Response number.

5. General Land Office

An approved Incident Commander or alternate will inform the General Land Office (800)832-8224 within one hour if a spill falls under their jurisdiction - Oil spills than enter or threaten Texas Coastal waters regardless of origination and amount spilled. Procedures for oil spills are covered in the Sweeny Manual entitled, "Oil Discharge Prevention and Response Plan".

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Gas Pipelines

Notification of federal and/or state agencies will be made if a release occurs that falls under their reporting guidelines as described for each agency.

1. The Texas Railroad Commission and the Department of Transportation have jurisdiction over gas pipelines
- A. IMMEDIATE TELEPHONIC NOTIFICATION to the Railroad Commission is required if the release of a gas results any one of the following:
1. Death or Hospitalization of a Person.
 2. Inadvertent Fire or Explosion.
 3. Damage to Property Exceeding \$5,000. (This cost is to include repair costs, cost of commodity not recovered, damage to other parties, and cost of cleanup.)
 4. Require taking any segment of a transmission line out of service.
 5. Any Condition which may, in the judgment of the company be considered significant because of location, rerouting of traffic or media interest.

Once the necessary information has been obtained, the Sweeny Complex Environmental Team will make the telephone report to:

**Pipeline Safety Section
Texas Railroad Commission
512-463-6788
(Within two hours following discovery)**

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- B. IMMEDIATE TELEPHONIC NOTIFICATION to the Department of Transportation is required if the release of a gas results in any one of the following:

1. Death or Hospitalization of a Person.
2. Damage to Property Exceeding \$50,000. (This cost is to include repair costs, cost of commodity not recovered, damage to other parties, and cost of cleanup.)
3. Any event which results on the shutdown of an LNG facility
4. Any Condition which may, in the judgment of the carrier, significantly affect human health or the environment (even though it did not meet any of the above criteria).

The Sweeny Complex Environmental Control Director or his alternate will make the telephone report to:

**National Response Center
1-800-424-8802**

- C. WRITTEN NOTIFICATION is required if the release meets the guidelines for telephonic notification listed above. If written notification is required, the Terminal Pipeline Specialist or Environmental Section should submit a copy of DOT Form 7000-1 to the Texas Railroad Commission. The completed form will be typed and numbered. Two copies of the form must be sent within 30 days after the time of discovery to the Pipeline Safety Section, Texas Railroad Commission. The Texas Railroad Commission will forward one copy to the Office of Pipeline Safety, DOT. A record copy of the form will be filed in the Sweeny Safety Files

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2. National Response Center

Whenever there is a leak on a refinery pipeline the Pipeline Specialist or Terminal Team Leader will obtain the necessary information and make an immediate telephone report to:

**National Response Center
1-800-424-8802**

The National Response Center is manned by a U.S. Coast Guard Duty Officer. The Duty Officer receiving the report will, in turn, report the information to the appropriate federal and state authorities. When making the report the following information should be obtained from the Duty Officer:

- (1) Name and title of the person on duty.
- (2) Date and time the report was called in to the NRC.
- (3) Case number assigned to the report.

The Environmental Protection Agency is informed of the leak through the National Response Center. The Sweeny Complex Environmental Control Director or his alternate will be responsible for any subsequent contact with the Environmental Protection Agency.

3. State or Local Agencies

The Sweeny Complex Environmental Team will make a telephone contact with those state or local agencies having jurisdiction in the area of the incident.

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INCIDENT INVESTIGATION

For significant reportable incidents (leaks and spills) relating to DOT facilities, an investigation will be made to determine the cause of the incident and recommend preventive measures. The Terminal Pipeline Engineer should submit an investigation report within 30 days after an incident. The below headings should be covered in the report.

Description

Facts

Unsafe Practices, Acts and Conditions

Prevention, Recommendations and Action Taken

.

The below actions should also be performed when these type of leaks occur.

Type of Leak

Action

Corrosion Leaks Take a pipe-to-soil potential reading and record it on the report.

Failed Girth Weld, Pipe, or Component Analyze the pipe or component to determine the cause of failure.

Third Party Leaks Determine the line depth, location of line markers, and if one-call was used.

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POST ACCIDENT REVIEW

For accidents classified as emergencies (as defined below), the effectiveness of employee's actions and company procedures as detailed in the "Emergency Operations" section of the Operating & Maintenance Manual should be reviewed. The Review should be conducted and the documented results should be submitted within 30 days after the emergency occurred.

An emergency exists if any of the following conditions occur:

1. Fire or explosion occurring near or directly involving a pipeline facility.
2. Uncontrolled release of hazardous vapors, gas, and/or liquids from a pipeline.
3. Operations failure causing a hazardous condition (tank overflowing, relief valve failure, etc.).
4. Natural disaster affecting pipeline facilities (tornadoes, earthquakes, floods, etc.).
5. Acts of sabotage.

The post accident review should evaluate the following points:

1. Receiving, identifying and classifying notices of events requiring either an immediate response by the operator or notice to fire, police, or other appropriate public officials.
2. Prompt and effective response to a notice of each type of emergency as listed above.
3. Availability of personnel, equipment, and instruments necessary to deal with the emergency.
4. Taking necessary action to minimize an emergency condition, such as
 - a. Closing block valves.
 - b. Emergency shutdown.
 - c. Pressure reduction.
 - d. Controlling the release of HVL or other hazardous vapors.

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5. Control of released hazardous liquid (i.e., containment and cleanup).
6. Minimizing public exposure to injury and probability of accident ignition by such methods as:
 - a. Evacuating residences.
 - b. Halting traffic on roads and railroads in the affected area.
 - c. Other appropriate actions.
7. Notifying fire, police, and other appropriate public officials of gas or hazardous liquid pipeline emergencies and coordinating actual and preplanned pipeline emergency responses.
8. Should failure occur in a pipeline system transporting a highly volatile liquid, use of appropriate instruments to assess the extent and coverage of the vapor cloud and determine the hazardous area.

This report would be filed with the leak data file in the Safety Records Vault.

The Incident Investigation Report and the Post Accident Review Report will be combined into one all encompassing report if conditions permit.

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The following table provides a quick reference guide in locating the pressure sources to the **HVL Product Pipelines** operated by the Sweeny Refinery.

Sweeny #	Product	Size	Pressure Sources & Locations
5	Iso-butane	6"	Pump 68P100- Rref. Tank Frm. Cavern #7-Clemens
6	N-Butane	6"	Pump 10P17,17A-Sweeny Cavern #1-Clemens
8	Propylene	4"	Pump 68P80, 60P80A - RTF Cavern #5-Clemens
9	Propylene	6"	Pump 68P313,A,B-RTF Cavern #13-Clemens
12	NGL	8"	Pump 10P317-Sweeny EZ Pipeline-STF Cavern #6-Clemens
14	Propane	8"	Pump 10P16,A-Sweeny Seminole PL-Clemens Cavern #14-Clemens
18	NGL	6"	Pump Hilcorp Energy
20	EP-mix	10"	10P360 - Unit 10 Mt. Belview PL-Unit Pump Caven #10-Clemens
22	Ethylene	6"	Ethylene Units-Sweeny Cavern #4,12,16,18-Clemens
26	BB-mix	8"	Pump 68P145-RTF Caven #8-Clemens
27	Isopentane	8"	Pump 68P258-STF Cavern #11A-Clemens
35	LPG (Propane)	10"	Pump 10P16,A-Unit 10ABC Cavern #14-Clemens
37	Ethylene	8"	Ethylene Units-Sweeny Cavern #4-Clemens
38	Butadiene	4"	Pump 68P309,A-RTF Phillips PL @ Clemens

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The following table provides a quick reference guide in locating the pressure sources to the **non HVL Product Pipelines** operated by the Sweeny Refinery.

Sweeny #	Product	Size	Pressure Sources & Locations
1 & 1-1	Cyclohexane	6"	Pump 68P247-STF Pump - Freeport Tanks 104,106,114-Freeport I
2	Benzene	4", 5"	Pump 88P52/52A - Freeport Tanks 92,93-Unit 19
3	Dist & JP4	8", 12"	Pump 68P207,208-STF Tanks 102,105,109,110,112 113,115, & 119-Freeport I
10	Idle (Cycle Oil)	5"	Not applicable
13	Gas Oil	12" 15"	Barge Pumps-San Bernard Tank 201,202-STF
29	Xylene	4"	Pump 68P157 Tank 309-San Bernard
30	Normal Hexane	4"	Pump 68P92-STF Tank 310-San Bernard
31	Toulene	4"	Pump 68P160,160A-RTF Tanks 3,4-RTF Pump 89P2-San Bernard Tank 308-San Bernard
32	Fuel Oil	8"	Pump 68P126-RTF Tank 301-San Bernard
36	DAC	6"	Pump 68P316,316A-STF Tank 136,137-Freeport I
41	MTBE	8"	Barge Pump-San Bernard Terminal
42	Xylene	6"	Pump 7P360,360A Tanks 409, 413, Unit 7

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The following table provides a quick reference guide in locating the pressure sources to the **Crude Pipelines** operated by the Sweeny Refinery.

Sweeny #	Product	Size	Pressure Sources & Locations
4	Sweet Crude	12"	Pump 88P30,30A,49,49A-Freeport I Pump 90P74-Jones Creek Crude Tanks-STF
24	Sour Crude	24"	Pump 88P54,55-Freeport I Pump 90P73,73A-Jones Creek Pump 90P341,341A,341B-Jones Creek Pump 68P300-STF Crude Tanks-STF, Jones Creek
25	Crude	30"	Docks Freeport II Crude Tanks-Freeport I

The following table provides a quick reference guide in locating the pressure sources to the **Gas Pipelines** operated by the Sweeny Refinery.

Sweeny #	Product	Size	Pressure Sources & Locations
7	Nitrogen	4"	#15 Pipeline-Clemens Jct. (Not DOT regulated)
15	Nitrogen	4"	Air Liquide Pipeline-behind Jones Creek (Not DOT regulated)
28	Hydrogen	8"	Compressor 26C100,101-Sweeny Cavern #19-Clemens
40	Hydrogen	8"	Air Liquide Pipeline - SH 36 near Brazos River
204	Fuel Gas	10"	Refinery Gas Header at 68D127-Sweeny PUGCO tie in at Sweeny Refinery dump road Cavern #20-Clemens
PUGCO	Fuel Gas	16" and 30"	Pipeline 204 Delivery Meters: DOW, Hilcorp, PNG, HPL, Vallerio, and AMOCO

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BEAUMONT EPA CROSS REFERENCE	12
EPA Facility Response Plan.....	12
BEAUMONT USCG CROSS REFERENCE	15
§ Part 154.1030 General Response Plan Contents Cross Reference	15
§ Part 154.1035 Specific Response Plan Contents Cross Reference.....	17

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PHMSA CROSS REFERENCE

PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
1.1	194.107(c)	FRP statement certifying that the operator has reviewed the current National Contingency Plan (NCP) and each applicable Area Contingency Plan (ACP) and that the FRP is consistent with them.	State Appendix FOB, Second Page
1.2	194.107(c)	Applicable ACP identification.	State Appendix FOB, Second Page
2.1	194.107(d)(1)(I) 194.113(a)	PLAN INFORMATION SUMMARY WITH THE FOLLOWING INFORMATION	
		Name of Operator	Core Plan Section 1, Page 1
		Street Address of Operator	Core Plan Section 1, Page 1
		City, State, Zip Code	Core Plan Section 1, Page 1
	194.113(a)(2) 194.113(b)(3)	A List of response zones that meet the criteria for significant and substantial harm and a list of response zones in which a worst case discharge could cause substantial harm	Core Plan Section 1, Page 1 Page 3
	194.113(b)(5)	The basis for the operator's determination that the response zone meets the criteria for significant and substantial harm and a statement that a worst case discharge in the response zone can be expected to cause significant and substantial harm for each such response zone	State Appendix FOB, Second Page
	194.113(a)(2) 194.5	Description of each response zone, including the county(s) and state(s) and is each response zone designation appropriate	Core Plan Section 1, Page 1 Page 3
		Name and/or title and the telephone number of the Qualified Individual available on a 24-hour basis in each response zone	State Appendix Beaumont ERAP, Page 1
		Name and/or title and the telephone number of the Alternate Qualified Individual available on a 24-hour basis in each response zone	State Appendix Beaumont ERAP, Page 1
	194.113(b)(4)	List of line sections in each response zone identified by milepost survey station number of other operator designation	State Appendix Section 1A, Page 16 Section 1B Pages 3 thru 11
	194.113(b)(4)	If any response zone contains multiple pipeline systems, are they all described and if multiple oils transported, are they listed	State Appendix Section 1A, Page 16 Section 1B Pages 3 thru 11

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
	194.113(b)(6)	The type of oil and the volume of the worst case discharge in each response zone	State Appendix Section 1B Pages 3 thru 11
3.1	194.107(d)(1)(ii)	Notification procedures identify a person, position, or facility responsible for initiating immediate notification	State Appendix Section 2, Pages 1 thru 7 Beaumont ERAP, Page 1
3.2	194.107(d)(1)(ii) Appendix A Section 2	Notification procedures indicate that the person, position, or facility is capable of initiating notification on a 24-hour basis	State Appendix Section 2, Pages 1 thru 7 Beaumont ERAP, Page 1
	194.107(d)(1)(ii) Appendix A Section 2(b)	Appropriate notification procedures	State Appendix Section 2, Pages 1 thru 7 Beaumont ERAP, Page 1
3.3	194.107(d)(1)(ii) Appendix A Section 5	Notification procedures telephone numbers which include the required contacts that can be reached on a 24-hour basis	State Appendix Section 2, Pages 1 thru 7 Beaumont ERAP, Page 1
		Qualified Individual	State Appendix Beaumont ERAP, Page 1
		Oil Spill Removal Organization	State Appendix Beaumont ERAP, Page 16
		Is the National Response Center number correctly listed as 1-800-424-8802	State Appendix Section 2, Page 11
		Company personnel (spill management team)	State Appendix Beaumont ERAP, Page 1
3.4	194.107(d)(1)(ii)	Notification Section Which Includes The Following Information	
		Name of pipeline operator	State Appendix Beaumont ERAP, Page 5 Section 2, Page 5
		Time of discharge	State Appendix Beaumont ERAP, Page 5 Section 2, Page 5

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/ Reference
		Location of discharge	State Appendix Beaumont ERAP, Page 5 Section 2, Page 5
		Name of oil involved	State Appendix Beaumont ERAP, Page 5 Section 2, Page 5
		Reason for discharge	State Appendix Beaumont ERAP, Page 5 Section 2, Page 5
		Estimated volume of oil discharged	State Appendix Beaumont ERAP, Page 5 Section 2, Page 5
		Weather conditions on scene	State Appendix Beaumont ERAP, Page 5 Section 2, Page 5
3.5	194.107(d)(1)(v) 194.115 Appendix A Section 9(e)(2)	Identification of operator's Oil Spill Removal Organization	State Appendix Section 3, Page 3
		Name(s)	State Appendix Section 3, Page 3
		Address(s)	State Appendix Section 3, Page 3
		Telephone Number(s)	State Appendix Section 3, Page 3
4.1	194.115(a)	Procedures to identify and mitigate or prevent a substantial threat of a worst case discharge	Core Plan Section 3, Pages 1 thru 33 Section 4 Section 5 Section 6 Section 7

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
4.2	194.107(d)(1)(iii) Appendix A Section 3(a)	Identification of personnel, equipment and procedures for detection leaks and spills and locating spills throughout the response zone	State Appendix ERAP, Entire section Section 3, Pages 1 thru 4 Core Plan Section 3, Pages 1 thru 33 Section 4 Section 5 Section 6 Section 7
4.3	194.105(b)(1)	Identification of the maximum time to detect spill and shutdown flow in affected pipeline in adverse weather	State Appendix Section 1B, Pages 35 thru 37
4.4	194.107(d)(1)(v) Appendix A Section 9(e)	Identification of procedures to mitigate spills appropriate for the response zone and consistent with applicable ACP(s)	State Appendix Front of Book Tab Second Page Beaumont ERAP, Pages 32 thru 35 Section 3, Pages 1 thru 4 Core Plan Section 3, Pages 1 thru 33 Section 4 Section 5 Section 6
5.1	194.107(d)(1)(v) Appendix A Section 9(e)	Identification of spill containment strategies appropriate for the response zone and consistent with applicable ACP(s)	State Appendix Front of Book Tab Second Page Section 1B Pages 72 thru 119 Beaumont ERAP, Pages 32 thru 35 Section 3, Pages 1 thru 4 Core Plan Section 3, Pages 1 thru 33 Section 4 Section 5 Section 6 Section 8

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
5.2	194.115(b)	Planned spill containment activities accomplished within the appropriate tier times	State Appendix Section 1B, Pages 54 thru 61 Section 3, Pages 1 thru 4
5.3	194.115(b)	Containment equipment capacities described in sufficient detail and identify sufficient spill containment to respond to a worst case discharge to the maximum extent practicable	State Appendix Section 3, Pages 1 thru 4
6.1	194.107(d)(1)(v) Appendix A Section 9(e)	Identification of the spill recovery strategies appropriate for the response zone and consistent with applicable ACP(s)	State Appendix Front of Book Tab, Second Page Section 1B, Pages 72 thru 119 Section 3, Pages 1 thru 4 Core Plan Section 3, Pages 1 thru 33 Section 4 Section 5 Section 6
6.2	194.115(b)	Planned spill recovery activities accomplished within the appropriate tier times	State Appendix Section 1B, Pages 54 thru 61 Section 3, Pages 1 thru 4
6.3	194.115(a)	Recovery equipment capacities described in sufficient detail and the FRP identify sufficient spill recovery equipment to respond to a worst case discharge to the maximum extent	State Appendix Section 3, Pages 1 thru 4
7.1	194.107(d)(1)(v) Appendix A Section 9(e)	Identification of disposal procedures, including temporary storage equipment for recovered oil appropriate for the response zone and consistent with applicable ACP	State Appendix Section 1B, Page 50 Section 4, Pages 1 thru 21 Section 3, Pages 1 thru 4
7.2	194.115(b)	Planned temporary storage and waste disposal activities accomplished within the appropriate tier times	State Appendix Section 1B, Page 50 Section 4, Pages 1 thru 21 Section 3, Pages 1 thru 4
7.3	194.115(a)	Identification of sufficient temporary storage capabilities to respond to a worst case discharge to the maximum extent practicable	State Appendix Section 3, Pages 1 thru 4

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
8.1	194.107(d)(1)(v) Appendix A Section 9(e)	Identification of the protection strategies appropriate for the response zone and consistent with applicable ACP(s)	Core Plan Section 3 Section 5 Section 6 Section 8 State Appendix Front of Book Tab, Second Page Section 1B, Pages 72 thru 119
8.2	194.115(b)	Planned protection activities accomplished with the appropriate tier times	State Appendix Section 1B, Pages 54 thru 61 Section 3, Pages 1 thru 4
9.1	194.107(d)(1)(v) 194.117(c) Appendix A Section 4(c) Appendix A Section 9(k)(2)	Response management system described in the FRP and IC-bases system	Core Plan Section 6
9.2	194.107(d)(1)(v) Appendix A Section 4(a) and (b)	Operator's response organization includes a description of roles and responsibilities	Core Plan Section 6 State Appendix Front of Book Tab, Second Page Beaumont ERAP, Pages 17 thru 18
		Qualified Individual	State Appendix Front Book Tab, Second Page
		Other operator response personnel including on the spill management team	State Appendix Beaumont ERAP, Pages 17 thru 18
		Contracted Oil Spill Removal Organization(s)	State Appendix Beaumont ERAP, Pages 17 thru 18
9.3	194.107(D)(1)(V) Appendix A Section 4(c)	Operator's response organization includes a description of the organizational interfaces with external parties in a Unified Command	Core Plan Section 5 Section 6
		State and local responders	Core Plan Section 5 Section 6

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
		Federal on-Scene coordinator	Core Plan Section 5 Section 6
10.1	194.107(d)(1)(ii) 194.107(d)(1)(v)	Describe appropriate communication procedures and system adequate for notifications and response operations	State Appendix Beaumont ERAP, Pages 32 thru 35 Core Plan Section 11
10.2	194.115(a)	Identify response equipment that is operator-owned and maintained	State Appendix Beaumont ERAP, Page 31
10.3	194.107(d)(1)(viii)	Describe procedures for maintaining response equipment owned by operator	State Appendix Section 3, Page 1 Core Plan Section 18, Pages 30 thru 31
10.4	194.115(a)	Identify response equipment that will be provided by Oil Spill Removal Organization(s) that is not USCG-classified	N/A
10.5	194.107(d)(1)(viii)	Describe procedures for maintaining response equipment owned by Oil Spill Removal Organization(s) that is not USCG-classified	State Appendix Section 3, Pages 1 thru 4
10.6	194.115(b)	Identify the location of both operator-owned and Oil Spill Removal Organization-owned response equipment	State Appendix Beaumont ERAP, Page 18 Page 31 Section 3, Pages 1 thru 4
10.7	194.107(d)(1)(v)	Describe mobilization and deployment of response equipment within appropriate tier times consistent with the plan's response activities	State Appendix Beaumont ERAP, Pages 32 thru 35 Section 3
10.8	194.115(b)	Size of response zone to permit planned response activities to be accomplished including equipment mobilization and deployment within the appropriate tier times	State Appendix Section 1A, Pages 16
11.1	194.107(d)(1)(v) 194.115 194.117(a)(1)(I) & (c) Appendix A Section 9(e)(2)	Identification of sufficient numbers of trained personnel to conduct the response to the WCD consistent with the plan's response activities	State Appendix Beaumont ERAP, Page 1 Core Plan Section 19

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
11.2	194.107(d)(1)(v)	Describe procedures for mobilizing and deploying response personnel throughout the response zone consistent with the plan's response activities	State Appendix Section 2, Pages 1 thru 34 Core Plan Section 3 Section 4 Section 5 Section 6
12.1	194.107(d)(1)(v)	Operation description of procedures to be used by the response management organization to document response decisions, activities and cost	Core Plan Section 15, Pages 1 thru 57
12.2	194.105(a)	Provide the calculations and methodology used for determining the worst case discharge for the response zone	State Appendix Section 1A, Page 16 Section 1B, Page 36
12.3	194.105(b)	Worst case discharge volume calculated using the three specified methods as applicable in the Interim Final Rule and the derivations accurate and as prescribed	State Appendix Section 1B, Page 36
13.1	194.117(a)(1)(I)	Describe training program that provides training for response personnel including their responsibilities under the plan	Core Plan Section 12, Pages 1 thru 9
13.2	194.117(a)(3)	Describe training program that provides training for response personnel	Core Plan Section 12, Pages 1 thru 9
		Characteristics and hazards of oil	Core Plan Section 12, Pages 1 thru 9
		Conditions that are likely to worsen emergencies, including the consequences of facility malfunctions of failures and appropriate corrective actions	Core Plan Section 12, Pages 1 thru 9
		Steps necessary to control an accidental discharge of oil	Core Plan Section 12, Pages 1 thru 9
		Steps necessary to minimize the potential for the fire, explosion, or environmental damage	Core Plan Section 12, Pages 1 thru 9
		Proper fire-fighting procedures and use of personal protective equipment	Core Plan Section 12, Pages 1 thru 9
13.3	29 CFR 1910.120 194.117(c) 40 CFR 300.150(b)	Describe a response training program that addresses the appropriate levels of training and the requirements specified	Core Plan Section 12, Pages 1 thru 9
13.4	194.117(b)	Describe the operator's procedures of maintenance for response training records for response personnel	Core Plan Section 12, Page 1

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
14.1	194.107(d)(1)(ix) Appendix A Section 7 PREP	Describe procedures for conducting internal and external drills	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31
		Responsibility for planning, carrying out and monitoring drills	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31
		Announced drills	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31
		At least one unannounced internal drill	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31
		Quarterly Qualified Individual notifications drills	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31
		Annual spill management team tabletop drills	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31
		Annual Oil Spill Removal Organization(s) equipment deployment drills of representative types of key equipment identified in the FRP	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31
		At least one drill that test the entire response plan for each response zone at least every three years	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31
14.2	194.107(d)(1)(ix) Appendix A Section 7(b)	Description of a 3-year drill and exercise cycle and the frequencies for each type drill in that cycle	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31

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PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
14.3	Appendix A Section 7	Procedures for maintaining drill documentation for 3 years	Core Plan Section 12, Page 1
15.1	194.107(d)(1)(x) 194.121(a)	Requirements and procedures that the operator will review the FRP at least once every 5 years after the last plan approval date of PHMSA, modify the FRP to address new or different operating conditions of information in the response plan and submit the plan for PHMSA's review/approval.	Core Plan Section 13, Pages 1 thru 2
15.2	194.121(b)	Identification of key factors that may cause revisions to the response plane and require the operator to submit revisions to PHMSA within 30 days of making the revisions for factors	Core Plan Section 13, Pages 1 thru 2
		New pipeline construction or purchase	Core Plan Section 13, Pages 1 thru 2
		Different worst case discharge volume	Core Plan Section 13, Pages 1 thru 2
		Change in commodities transported	Core Plan Section 13, Pages 1 thru 2
		Change in Oil Spill Removal Organization(s)	Core Plan Section 13, Pages 1 thru 2
		Change in Qualified Individual	Core Plan Section 13, Pages 1 thru 2
		Change in NCP/ACP that has significant impact on the appropriateness of response equipment or response strategies	Core Plan Section 13, Pages 1 thru 2
		Change in response procedures	Core Plan Section 13, Pages 1 thru 2
		Change in ownership	Core Plan Section 13, Pages 1 thru 2
15.3	194.121(b)(8)	Description of procedure for incorporating improvements identified	Core Plan Section 13, Page 1
		Post-drill evaluation results	Core Plan Section 13, Page 1
		Post-incident evaluation results	Core Plan Section 13, Page 1
16.1	194.107(c)	Plan consistent with the NCP in effect at the time of submission	State Appendix Front of Book Tab, Second Page

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE**

PHMSA Protocol #	PHMSA Section #	PHMSA Protocol Description	ERP Section/Reference
16.2	194.107(c)	Plan consistent with the ACP(s) in effect for each response zone at the time of submission	State Appendix Front of Book Tab, Second Page
16.3	49 CFR 194	Concept of plans of operation minimally adequate to carry out a response to the WCD	State Appendix Front of Book Tab, Second Page Beaumont ERAP, (Entire Section) Core Plan Section 3 Section 4 Section 5 Section 6 Section 7

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE****BEAUMONT EPA CROSS REFERENCE****EPA Facility Response Plan**

	EPA Facility Response Plan	Location In This Plan
1.1	Emergency Response Action Plan	State Appendix Front Binder Cover
1.2	Facility Information	State Appendix Section 1B, Pages 5 thru 11
1.3	Emergency Response Information	State Appendix ERAP, Entire Section
1.3.1	Notification	State Appendix ERAP, Page 3
1.3.2	Response Equipment List	State Appendix ERAP, Page 31
1.3.3	Response Equipment Testing/Deployment	State Appendix Section 3, Page 1 Core Plan Section 18, Pages 30 thru 31
1.3.4	Personnel	State Appendix ERAP, Page 1
1.3.5	Evacuation Plans	State Appendix ERAP, Pages 19 thru 28 Page 37
1.3.6	Qualified Individual's Duties	State Appendix ERAP, Page 29
1.4	Hazard Evaluation	State Appendix Section 1B, Pages 15 thru 33
1.4.1	Hazard Identification	State Appendix Section 1B, Pages 15 thru 33
1.4.2	Vulnerability Analysis	State Appendix Section 1B, Pages 15 thru 33
1.4.3	Analysis for the Potential for an Oil Spill	State Appendix Section 1B, Pages 15 thru 33
1.4.4	Facility Reportable Oil Spill History	State Appendix Section 1B, Pages 29 thru 33
1.5	Discharge Scenarios	State Appendix Section 1B, Pages 45 thru 61
1.5.1	Small and Medium Discharges	State Appendix Section 1B, Page 45

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE**

	EPA Facility Response Plan	Location In This Plan
1.5.2	Worst Case Discharges	State Appendix Section 1B, Page 47
1.6	Discharge Detection Systems	State Appendix Section 1B, Pages 38 thru 39
1.6.1	Discharge Detection by Personnel	State Appendix Section 1B, Page 36 SPCC Plan, Page 67
1.6.2	Automated Discharge Detection	State Appendix Section 1B, Page 39
1.7	Plan Implementation	State Appendix Section 1B, Pages 40 thru 53
1.7.1	Response Resources for Small, Medium and Worst Case Spills	State Appendix Section 1B, Pages 45 thru 53
1.7.2	Disposal Plans	State Appendix Section 1B, Page 50 Section 4 Core Plan Section 10
1.7.3	Containment and Drainage Plans	State Appendix Section 1B, Pages 69 thru 71
1.8	Drill/Exercises and Response Training	Core Plan Section 12
1.8.1	Facility Self-Inspection	State Appendix Section 1B, SPCC Plan, Page 67
1.8.1.1	Tank Inspections	State Appendix Section 1B, SPCC Plan, Page 67
1.8.1.2	Response Equipment Inspections	State Appendix Section 1B, Pages 63 thru 64
1.8.1.3	Secondary Containment Inspections	State Appendix Section 1B, Page 63 SPCC Plan, Page 67
1.8.2	Facility Drills/Exercises	Core Plan Section 12 Section 18
1.8.2.1	QI Notification Drill Logs	Core Plan Section 18, Page 26

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE**

	EPA Facility Response Plan	Location In This Plan
1.8.2.2	Spill Prevention Meeting Logs	State Appendix Section 1B, Page 67
1.9	Diagrams	State Appendix ERAP, Pages 36 thru 38
1.10	Security	State Appendix Section 1B, SPCC, Page 67
2.0	Response Plan Cover Sheet	State Appendix Section 1B, Page 6
3.0	Acronyms	Core Plan Section 17
4.0	References	State Appendix Front of Book Tab, Second Page

TEXAS STATE APPENDIX

AGENCY CROSS REFERENCE

BEAUMONT USCG CROSS REFERENCE

§ Part 154.1030 General Response Plan Contents Cross Reference

	General Response Plan Contents	Location In This Plan
(a)	The plan must be written in English.	Yes
	(1) Introduction and plan contents.	State Appendix For Beaumont Terminal Plan Introduction go to Section 1B Pages 1 thru 12 For Beaumont Terminal Contents Go to The Table of Contents located Just Behind the Section 1B Tab
	(2) Emergency response action plan:	State Appendix Beaumont Terminal ERAP Located in Front Pocket
	(i) Notification procedures.	State Appendix ERAP, Pages 3 thru 16 Section 2, Notifications
	(ii) Facility's spill mitigation procedures.	State Appendix Section 1B, Pages 40 thru 53 Core Plan Section 3 Section 4 Section 5
	(iii) Facility's response activities.	State Appendix Section 1B, Pages 40 thru 53 Core Plan Section 3 Section 4 Section 5
	(iv) Fish and wildlife and sensitive environments.	State Appendix Section 1B, Pages 72 thru 119
	(v) Disposal plan.	State Appendix Section 1B, Page 50 Section 4, Pages 6 thru 20
	(3) Training and Exercises:	Core Plan Section 12
	(i) Training procedures.	Core Plan Section 12, Pages 1 thru 9
	(ii) Exercise procedures.	Core Plan Section 12, Pages 1 thru 9 Section 18, Pages 1 thru 31

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE**

	General Response Plan Contents	Location In This Plan
	(4) Plan review and update procedures.	Core Plan Section 13
	(5) Appendices.	State Appendix Section 1B, Table of Contents ERAP
	(i) Facility-specific information.	State Appendix Section 1B Pages 3 thru 11
	(ii) List of contacts.	State Appendix ERAP Pages 1 thru 3
	(iii) Equipment lists and records.	State Appendix Section 1B, Pages 64 thru 68
	(iv) Communications plan.	Core Plan Section 11
	(v) Site-specific safety and health plan.	Core Plan Section 7
	(vi) List of acronyms and definitions.	Core Plan Section 17

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE****§ Part 154.1035 Specific Response Plan Contents Cross Reference**

33 CFR 154.1035	Required Section	Location In This Plan
	(a) Introduction and Plan Content	State Appendix State Appendix For Beaumont Terminal Plan Introduction go to Section 1B, Pages 1 thru 11 For Beaumont Terminal Contents Go to The Table of Contents located Just Behind Section 1B IndexTab
	(1) Facility Name, Address, Telephone Number and Fax Fax number is located in State Appendix ERAP, Page 12	State Appendix Section 1B, Pages 3 thru 11 Fax number is located in the State Appendix ERAP, Page12
	(2) Facility Location	State Appendix Section 1B, Page 10
	(3) Name, Address, Procedures for Contacting Facility on a 24 Hour Basis	State Appendix Section 1B, Page 10
	(4) Table of Contents	State Appendix Table of Contents Tab
	(5) Cross Index, if Appropriate	State Appendix Agency Cross Reference Section
	(6) Record of Changes to Record Information on Plan Updates	State Appendix Front of Book Tab
	(b) Emergency Response Action Plan	State Appendix Front Binder Cover
	(1) Notification Procedures	State Appendix ERAP, Pages 3 thru 16
	(i) Prioritized Notification Procedures List Identifying Persons Name, Telephone Number and Their Role in Plan	State Appendix ERAP Pages 1 and 3 Core Plan, Section 2, Page 3
	(A) Notification Procedures Must Include-Facility Response Personnel, Spill Management Team, Oil spill Removal Organizations and QI and Alternates	State Appendix ERAP, Pages 1 thru 16
	(B) Federal, State or Local Agencies as Required	State Appendix ERAP, Pages 7 thru 11

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE**

33 CFR 154.1035	Required Section	Location In This Plan
	(ii) Notification Form Containing Information per Figure 1, Information on Discharge	State Appendix ERAP, Page 5
	(2) Facility's Spill Mitigation Procedure	State Appendix ERAP, Entire section Section 1B, Pages 40 thru 53 Core Plan, Section 3 Section 4 Section 5
	(i) Descriptions of Volume(s) of Oil Groups Involved With (A) Average Most Probable Discharge (B) Maximum Most Probable Discharge (C) Worst Case Discharge (D) Where Applicable WCD From a NTF	State Appendix Section 1B, Page 4 Page 34
	(ii) Prioritized Procedures for Facility Personnel to Mitigate or Prevent any Discharge or Substantial Threat of Discharge, Including Shut Down Addressing the Following Scenarios: (A) Failure of Manifold, Loading Arm, Transfer Equipment, Hoses, Etc. (B) Tank Overfill (C) Tank Failure (D) Piping Rupture (E) Piping Leak (Under Pressure or Not Under Pressure as Applicable) (F) Explosion and/or Fire (G) Equipment Failure	State Appendix Section 1B, Pages 40 thru 53
	(iii) List of Equipment and Responsibilities of Facility Personnel to Mitigate an Average Most Probable Discharge	State Appendix Section 1B, Pages 40 thru 45 ERAP, Page 31
	(3) Facility's Response Activities	State Appendix Section 1B, Pages 40 thru 53 Core Plan Section 3 Section 5 Section 6
	(i) Facility Personnel Responsibilities to Initiate a Response and Supervision Pending Arrival of the Qualified Individual	State Appendix ERAP, Page 3 Page 12 Page 29

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE**

33 CFR 154.1035	Required Section	Location In This Plan
	(ii) Responsibilities and Authority of the QI and Alternate QI	State Appendix ERAP, Page 29
	(iii) Organizational Response Management Structure: (A) Command and Control (B) Public Information (C) Safety (D) Liaison With Government Agencies (E) Spill Operations (F) Planning (G) Logistics Support (H) Finance	State Appendix ERAP, Page 17 Core Plan Section 5 Section 6
	(iv) Identification of Oil Spill Removal Organizations and Spill Management Team to:	State Appendix ERAP, Page 16
	(A) Be Capable of Providing the Following Response Resources	State Appendix ERAP, Page 16
	(1) Equipment and Supplies	State Appendix ERAP, Page 16
	(2) Trained Personnel Necessary to Continue Operation of Equipment and Staff of the OSRO and SMT for the First 7 Days of the Response	State Appendix ERAP, Page 1 Page 16 Section 3 Core Plan Section 19
	(B) Job Descriptions for Each Spill Management Team Member Within the Organization	State Appendix ERAP, Page 1
	(v) Mobile Facilities	N/A
	(4) Fish and Wildlife and Sensitive Environments	State Appendix Section 1B, Pages 72 thru 119
	(i) List of Areas of Economic Importance and Environmental Sensitivity as Identified in the Applicable ACP	State Appendix Section 1B, Pages 72 thru 119
	(ii) For a Worst Case discharge From the facility , the Section of the Plan Must List (A) All Fish and Wildlife and Sensitive Environments Identified in the ACP (B) Describe Response Actions That Facility Anticipates to Protect Fish, Wildlife and Sensitive Environments	State Appendix Section 1B, Pages 72 thru 119 Pages 49 thru 53
	(C) Contain a Chart or map Showing Location of Fish, Wildlife and Sensitive Environments	State Appendix Section 1B, Pages 72 thru 119

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE**

33 CFR 154.1035	Required Section	Location In This Plan
	(iii) For a Worst Case Discharge, Identify Appropriate Equipment and Required Personnel Available by Contract or Other Approved Means to Protect Fish, Wildlife and Sensitive Environments.	State Appendix ERAP, Page 1 Page 16 Page 31
	(A) Identify Appropriate Equipment and Personnel to Protect Fish, Wildlife and Sensitive Environments per Calculated Travel Distance of the Oil	State Appendix ERAP, Page 1 Page 16 Page 31
	(B) Calculate the Oil Travel Distances (1) as follows: (i) Persistent Oil into Non-Tidal Waters-48 hours (ii) Persistent Oil into tidal waters-15 Miles From Facility	State Appendix Section 1B, Pages 49 thru 53 Vulnerability Analyses Pages 72 thru 119
	(2) A Spill trajectory may be Substituted for the Distances Calculated	N/A State Appendix Section 1B Pages 15 thru 21
	(3) EPA's Appendix C Attachment C-III May be Substituted for the Distances in Non-Tidal and Tidal Waters	State Appendix Section 1B Pages 15 thru 21 Vulnerability Analyses
	(5) Disposal Plan	State Appendix Section 1B, Page 50 Section 4 Core Plan Section 10
	(c) Training and Exercises	Core Plan Section 12
	(1) Training Procedures	Core Plan Section 12, Pages 1 thru 9
	(2) Exercise Procedures	Core Plan Section 12 Pages 1 thru 9 Section 18, Pages 1 thru 21
	(d) Plan Review and Update Procedures	Core Plan Section 13

TEXAS STATE APPENDIX

AGENCY CROSS REFERENCE

33 CFR 154.1035	Required Section	Location In This Plan
	(e) Appendices	State Appendix Section 1B, Table of Contents ERAP
	(1) Facility Specific Information	State Appendix Section 1B, Pages 8 thru 11
	(i) Physical Description of Facility Including a Plan of the Facility Showing Mooring Areas, Transfer Locations, Control Stations, Locations of Safety Equipment and Piping Information	State Appendix Section 1B, Pages 8 thru 11
	(ii) Sizes, Types, and Numbers of Vessels Facility Can Transfer Oil to or From Simultaneously	State Appendix Section 1B, Page 15
	(iii) Identification of First Valve(s) Separating the Transportation-Related From the Non-Transportation-Related Portions of the Facility	State Appendix Section 1B, Page 8, 9 th Paragraph ERAP, Pages 36 thru 38 (Facility Maps)
	(iv) Information on Oil or Hazardous Materials Handled, Stored, or Transported In Bulk	State Appendix Section 1B, Pages 22 thru 27 Core Plan Section 16
	(A) Generic or Chemical Name (B) Description of appearance and Color (C) Physical and Chemical Characteristics (D) Hazards Involved in Handling (E) Listing of Firefighting Procedures and Extinguishing Agents Effective With Fires Involving Hazardous Materials	State Appendix Section 1B, Page 62 Core Plan Section 16
	(v) Any Other Information Deemed Pertinent by Owner/Operator	State Appendix Section 1B, Table of Contents
	(2) List of Contacts (This List Must Include 24 Hour Contact of Key individuals and Organizations)	State Appendix ERAP, Pages 1 thru 3 Page 16
	(i) Primary and Alternate Qualified Individuals for the Facility	State Appendix ERAP, Page 1
	(ii) All Contacts for Activation of Response Resources Identified in Plan	State Appendix ERAP, Pages 1 thru 16
	(iii) Appropriate Federal, State, and Local Individuals	State Appendix ERAP, Pages 7 thru 11

TEXAS STATE APPENDIX**AGENCY CROSS REFERENCE**

33 CFR 154.1035	Required Section	Location In This Plan
	(3) Equipment List and Records	State Appendix Section 1B, Pages 64 thru 68
	(i) List of Equipment and Individuals Needed to Deal With the Average Most Probable Discharge	State Appendix ERAP, Page 1 (Individuals) Page 31 (Equipment)
	(ii) List Of Major Equipment Belonging To Oil Spill Removal Organizations and Availability to Respond to a Worst Case Spill	State Appendix Section 3, Pages 3 thru 4 (USCG Certified OSROs)
	(iii) Data on Oil Spill Removal Organization Equipment, Including: a) Type, Make, Model, Year of Manufacture b) Effective Daily Recovery Rate (If Applicable) c) Overall Boom Height and Type of End Connectors (If Applicable) d) Spill Scenario for Which Equipment is to be Used or Contracted e) Total Daily Capacity for Storage and Disposal of Recovered Oil f) Location of Equipment g) Date of Last Inspection	N/A since Company Contracted OSROs are USCG Certified.
	(4) Communication Plan	Core Plan Section 11
	(5) Site Specific Safety and Health Plan	Core Plan Section 7
	(6) List of Acronyms and Definitions	Core Plan Section 17