THE STATE of ALASKA
GOVERNOR SEAN PARNELL

Department of Environmental Conservation

DIVISION OF SPILL PREVENTION & RESPONSE
INDUSTRY PREPAREDNESS PROGRAM

555 Cordova Street
Anchorage, Alaska 99501
Main: 907.269.3094
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December 6, 2012

File No.: 305.30
(Tesoro)

OIL DISCHARGE PREVENTION AND CONTINGENCY PLAN APPROVAL

James Tangaro
Tesoro Alaska Company
P.O. Box 3369
Kenai, AK 99611-3369

Subject: **Tesoro Refining & Marketing Company, LLC Oil Discharge Prevention and Contingency Plan for Kenai Refinery, Nikiski Terminal, and Tesoro Alaska Pipeline, No. 12-CP-2019. Transfer of Operator from Tesoro Alaska Company to Tesoro Refining & Marketing Company, LLC – Approval**

Dear Mr. Tangaro:

The Alaska Department of Environmental Conservation (department) has completed our review of the application for transfer of operator from Tesoro Alaska Company to Tesoro Refining & Marketing Company, LLC (Tesoro) for the above referenced Oil Discharge Prevention and Contingency Plan (plan) dated November 30, 2012. Tesoro's transfer request letter and amendment application dated December 3, 2012 were submitted to the department and reviewed in accordance with 18 AAC 75.420(b) and (d). The department also received an updated version of the management authorization form and the statement of contractual terms between Tesoro and its primary response action contractor, Cook Inlet Spill Prevention and Response, Inc. (CISPRI).

The department recently approved Tesoro's renewal plan (November 30, 2012), and Tesoro's intent is to send out one updated packet to the plan reviewers that contains both the updates to the plan and the name change.

This approval applies to the following plan:

Plan Title:	**Tesoro Refining & Marketing Company, LLC (formerly Tesoro Alaska Company) Oil Discharge Prevention and Contingency Plan for the Kenai Refinery, Nikiski Terminal, and the Tesoro Alaska Pipeline.**
Supporting Documents:	**Cook Inlet Spill Prevention and Response, Inc. Technical Manual, as revised and updated.**

Plan Holder: **Tesoro Refining & Marketing Company, LLC**
P.O. Box 3369
Kenai, Alaska 99611-3369

Covered Facilities: **Kenai Refinery, Nikiski Terminal, and Tesoro Alaska Pipeline**

PLAN APPROVAL: Approval of the referenced plan is hereby granted, **effective December 6, 2012.** This approval supersedes all previous approvals and certificates of approval. A certificate of approval stating that the department has approved the plan amendment is enclosed. **This approval is subject to the following terms and conditions:**

TERMS AND CONDITIONS

The following items must be completed and/or received as specified to complete the plan in accordance with AS 46.04.030(e) and 18 AAC 75.460(a).

1. **Notice of Changed Relationship with Response Action Contractor.** Because the plan relies on the use of response contractors for its implementation, Tesoro must immediately notify us in writing of any change in the contractual relationship with the plan holder's response action contractor, and of any event including but not limited to any breach by either party to the response contract that may excuse a response contractor from performing, that indicates a response contractor may fail or refuse to perform, or that may otherwise affect the response, prevention, or preparedness capabilities described in the approved plan.

   This condition is reasonable and necessary because there are certain risks associated with allowing a plan holder to rely in part or total upon a response contractor instead of obtaining its own response capability. The risks arise, in part, because the certainty of the contractor's response is dependent upon the continuation of the legal relationship between the contractor and the plan holder. Given this risk, the department must be promptly informed of any change of the contractual relationship between the plan holder and the response contractor, and of any other event that may arguably excuse the response contractor from performing or that would otherwise affect the response, prevention, or preparedness capabilities described in the approved plan. The department may seek appropriate modifications to the plan or take other steps to ensure that the plan holder has continuous access to sufficient resources to protect the environment and to contain, cleanup, and mitigate potential oil spills. 18 AAC 75.425(e)(3)(H) and 18 AAC 75.445(i).

2. **Final Copy of the Plan.** Within 30 days of this letter, the plan holder must submit to the department updated versions of the approved plan, including all revisions instituted during the recent plan review. Tesoro must send two complete plan copies (with compact disc if possible) to the Exploration, Production & Refineries Section in Anchorage and one copy to the department's Kenai office. In addition, Tesoro needs to send an updated version of the plan to each reviewer and controlled document holder of your plan.

EXPIRATION: This approval **expires November 30, 2017**. After the approval expires, Alaska law prohibits operation of the facility until an approved plan is once again in effect.

AMENDMENT: Except for routine updates under 18 AAC 75.415(b), before any change to this plan may take effect, the plan holder must submit an Application for Amendment to the plan with any additional information needed to evaluate the proposed amendment. This is to ensure that changes to the plan do not diminish the plan holder's ability to respond to a discharge and to evaluate any additional environmental considerations that may need to be taken into account (18 AAC 75.415).

RENEWAL: To renew this approval, the plan holder must submit a completed renewal application and plan to the department no later than 180 days prior to the expiration of this approval. This is to ensure that the submitted plan is approved before the current plan in effect expires (18 AAC 75.420).

REVOCATION, SUSPENSION, OR MODIFICATION: This approval is effective only while the plan holder is in "compliance with the plan" and with all of the terms and conditions described above. The department may, after notice and opportunity for a hearing, revoke, suspend, or require the modification of an approved plan if the plan holder is not in compliance with it, or for any other reason stated in AS 46.04.030(f). In addition, Alaska law provides that a vessel or facility that is not in "compliance with the plan" may not operate (AS 46.04.030). The department may terminate approval prior to the expiration date if deficiencies are identified that would adversely affect spill prevention, response, or preparedness capabilities.

DUTY TO RESPOND: Notwithstanding any other provisions or requirements of this plan, a person causing or permitting the discharge of oil is required by law to immediately contain and cleanup the discharge regardless of the adequacy or inadequacy of a plan (AS 46.04.020).

NOTIFICATION OF NON-READINESS: Within twenty-four (24) hours after any significant response equipment specified in the plan becomes non-operational or is removed from its designated storage location, the plan holder must notify the department in writing and provide a schedule for the equipment's substitution, repair, or return to service (18 AAC 75.475[b]).

CIVIL AND CRIMINAL SANCTIONS: Failure to comply with the plan may subject the plan holder to civil liability for damages and to civil and criminal penalties. Civil and criminal sanctions may also be imposed for any violation of AS 46.04, any regulation issued there under, or any violation of a lawful order of the department.

INSPECTIONS, DRILLS, RIGHTS TO ACCESS, AND VERIFICATION OF EQUIPMENT, SUPPLIES, AND PERSONNEL: The department has the right to verify the ability of the plan holder to carry out the provisions of its plan and access to inventories of equipment, supplies, and personnel through such means as inspections and discharge exercises, without prior notice to the plan holder. The department has the right to enter and inspect the covered vessel or facility in a safe manner at any reasonable time for these purposes and to otherwise ensure compliance with the plan and the terms and conditions (AS 46.04.030[e] and AS 46.04.060). The plan holder shall conduct exercises for the purpose of testing the adequacy of the plan and its implementation (18 AAC 75.480 and 485).

FAILURE TO PERFORM: In granting approval of the plan, the department has determined that the plan, as represented to the department by the applicant in the plan and application for approval, satisfies the minimum planning standards and other requirements established by applicable statutes and regulations, taking as true all information provided by the applicant. The department does not warrant to the applicant, the plan holder, or any other person or entity: (1) the accuracy or validity of the information or assurances relied upon; (2) that the plan is or will be implemented; or (3) that even full compliance and implementation with the plan will result in complete containment, control, or cleanup of any given oil spill, including a spill specifically described in the planning standards.

The plan holder is encouraged to take any additional precautions and obtain any additional response capability it deems appropriate to further guard against the risk of oil spills and to enhance its ability to comply with its duty under AS 46.04.020(a) to immediately contain and clean up an oil discharge.

COMPLIANCE WITH APPLICABLE LAWS: If amendments to the approved plan are necessary to meet the requirements of any new laws or regulations, the plan holder must submit an application for amendment to the department at the above address. The plan holder must adhere to all applicable state statutes and regulations as they may be amended from time to time. This approval does not relieve the plan holder of the responsibility for securing other federal, state, or local approvals or permits, and the plan holder is still required to comply with all other applicable laws.

INFORMAL REVIEW OR ADJUDICATORY HEARING: Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185.

Informal review requests must be delivered to the Director of the Division of Spill Prevention and Response, 410 Willoughby Avenue, Suite 303, PO Box 111800, Juneau, Alaska 99811-1800 within 15 days of the permit decision.

Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, PO Box 111800, Juneau, Alaska 99811-1800, within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived. Anyone who submits a request for an informal review or an adjudicatory hearing should also send a copy of the request to the undersigned.

If you have any questions, please contact Shannon DeWandel at 269-7541 or shannon.dewandel@alaska.gov.

Sincerely,

Betty Schorr

Betty Schorr
Program Manager

Enclosure: Certificate of Approval, 12CER-052

Electronic cc (w/o enclosure):

Graham Wood, ADEC
Steve Russell, ADEC
Peter Ribbens, Tesoro
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Lt. Sarah Geoffrion, USCG Homer
Tom Dearlove, KPB
Hal Shepherd, CWA
Tom Lakosh
Todd Paxton, CISPRI

ALASKA DEPARTMENT
of
Environmental Conservation
Certificate of Approval
for
Oil Discharge Prevention and Contingency Plan

Certificate Number: **12CER-052** Plan Number: **12-CP-2019**

Name of Plan: **Tesoro Refining & Marketing Company, LLC Oil Discharge Prevention and Contingency Plan, for Kenai Refinery, Nikiski Terminal, and Tesoro Alaska Pipeline, Cook Inlet, Alaska**

Covered Facilities: **Tesoro Refining & Marketing Company, LLC's facilities including the Kenai Refinery, the Nikiski Terminal, and the refined products oil transmission line from Nikiski to the Anchorage Terminal**

Address: **Tesoro Refining & Marketing Company, LLC, P. O. Box 3369, Kenai, AK 99611**

Telephone: **(907) 776-8191** Fax: **(907) 776-3812**

Region of Operation (18 AAC 75.495): **Cook Inlet, Alaska**

Effective Date of Approval: **December 6, 2012** Expiration Date: **November 30, 2017**

This approval is subject to the terms and conditions of the applicable Alaska Department of Environmental Conservation contingency plan approval letter and continuing compliance with the requirements of AS 46.04 and 18 AAC 75.

Betty Schorr 12-6-2012

Betty Schorr, Approving Authority **Date**
Program Manager, Industry Preparedness Program

THE STATE of ALASKA
GOVERNOR SEAN PARNELL

Department of Environmental Conservation

DIVISION OF SPILL PREVENTION & RESPONSE
INDUSTRY PREPAREDNESS PROGRAM

555 Cordova Street
Anchorage, Alaska 99501
Main: 907.269.3094
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November 30, 2012

File No.: 305.30
(Tesoro)

James Tangaro
Vice President Refining
Tesoro Alaska Company
P.O Box 3369
Kenai, AK 99611

Subject: **Tesoro Alaska Company Oil Discharge Prevention and Contingency Plan for the Kenai Refinery, Nikiski Terminal, and Tesoro Alaska Pipeline. Plan Number: 12-CP-2019. Plan Approval**

Dear Mr. Tangaro:

The Alaska Department of Environmental Conservation (department) has completed our review of Tesoro Alaska Company's (Tesoro) renewal application for the above referenced Oil Discharge Prevention and Contingency Plan (plan) dated June 5, 2012. The department coordinated the State of Alaska's public review for compliance with 18 AAC 75 using the review procedures outlined in 18 AAC 75.455. Based on our review, the department has determined that your plan is consistent with the applicable requirements of the referenced regulations and is hereby approved.

This approval applies to the following plan:

Plan Title:	**Tesoro Alaska Company Oil Discharge Prevention and Contingency Plan for the Kenai Refinery, Nikiski Terminal, and Tesoro Alaska Pipeline**
Supporting Documents:	**Cook Inlet Spill Prevention & Response Inc. Technical Manual, © March 2010, as revised and updated**
Plan Holder:	**Tesoro Alaska Company P.O. Box 3369 Kenai, AK 99611**
Covered Facilities:	**Tesoro Alaska Company facilities including the Kenai Refinery, the Nikiski Terminal, and the refined products oil transmission line from Nikiski to the Anchorage Terminal**

PLAN APPROVAL: Approval of the referenced plan is hereby granted, **effective November 30, 2012.** A certificate of approval stating that the department has approved the plan is enclosed. This approval is subject to the following terms and conditions.

TERMS AND CONDITIONS

The following items must be completed and/or received as specified to complete the plan in accordance with AS 46.04.030(e) and 18 AAC 75.460(a).

1. **Notice of Changed Relationship with Response Contractor.** Because the plan relies on the use of response contractor(s) for its implementation, the plan holder must immediately notify the department in writing of any change in the contractual relationship with the plan holder's response contractor(s), and of any event including but not limited to any breach by either party to the response contract that may excuse a response contractor from performing, that indicates a response contractor may fail or refuse to perform, or that may otherwise affect the response, prevention, or preparedness capabilities described in the approved plan.

   This condition is reasonable and necessary because there are certain risks associated with allowing a plan holder to rely in part or total upon a response contractor instead of obtaining its own response capability. The risks arise, in part, because the certainty of the contractor's response is dependent upon the continuation of the legal relationship between it and the plan holder. Given this risk, the department must be promptly informed of any change of the contractual relationship between the plan holder and the response contractor, and of any other event that may arguably excuse the response contractor from performing or that would otherwise affect the response, prevention, or preparedness capabilities described in the approved plan. The department may seek appropriate modifications to the plan or take other steps to ensure that the plan holder has continuous access to sufficient resources to protect the environment and to contain, cleanup, and mitigate potential oil spills. 18 AAC 75.425(e)(3)(H) and 18 AAC 75.445(i).

2. **Management Approval and Manpower Authorization Form.** A signed copy of the Management Approval and Manpower Authorization form must be provided in the final plan distribution or submitted to the department in accordance with 18 AAC 75.425(c)(3).

   This condition is reasonable and necessary to ensure that a statement signed by a person with appropriate authority to commit the oil discharge prevention and response resources necessary to implement the plan is submitted as required by 18 AAC 75.425(c)(3).

3. **Final Copy of the Plan.** Within 30 days of this letter, the plan holder must submit to the department updated versions of the approved plan, including all revisions instituted during the recent plan review. Tesoro must send two complete plan copies and two compact disc copies to the Exploration, Production & Refineries Section in Anchorage and one copy to the department's Kenai office. In addition, you must send an updated version of the plan to each reviewer and controlled document holder of your plan.

EXPIRATION: This approval **expires November 30, 2017.** After the approval expires, Alaska law prohibits operation of the facility until an approved plan is once again in effect.

AMENDMENT: Except for routine updates under 18 AAC 75.415(b), before a change to this plan may take effect, the plan holder must submit an Application for Amendment to the plan with any additional information needed to evaluate the proposed amendment. This is to ensure that

changes to the plan do not diminish the plan holder's ability to respond to a discharge and to evaluate any additional environmental considerations that may need to be taken into account (18 AAC 75.415).

RENEWAL: To renew this approval, the plan holder must submit a completed renewal application and plan to the department no later than 180 days prior to the expiration of this approval. This is to ensure that the submitted plan is approved before the current plan in effect expires (18 AAC 75.420).

REVOCATION, SUSPENSION, OR MODIFICATION: This approval is effective only while the plan holder is in "compliance with the plan" and with all of the terms and conditions described above. The department may, after notice and opportunity for a hearing, revoke, suspend, or require the modification of an approved plan if the plan holder is not in compliance with it, or for any other reason stated in AS 46.04.030(f). In addition, Alaska law provides that a vessel or facility that is not in "compliance with the plan" may not operate (AS 46.04.030). The department may terminate approval prior to the expiration date if deficiencies are identified that would adversely affect spill prevention, response, or preparedness capabilities.

DUTY TO RESPOND: Notwithstanding any other provisions or requirements of this plan, a person causing or permitting the discharge of oil is required by law to immediately contain and cleanup the discharge regardless of the adequacy or inadequacy of a plan (AS 46.04.020).

NOTIFICATION OF NON-READINESS: Within twenty-four (24) hours after any significant response equipment specified in the plan becomes non-operational or is removed from its designated storage location, the plan holder must notify the department in writing and provide a schedule for the equipment's substitution, repair, or return to service in accordance with 18 AAC 75.475(b).

CIVIL AND CRIMINAL SANCTIONS: Failure to comply with the plan may subject the plan holder to civil liability for damages and to civil and criminal penalties. Civil and criminal sanctions may also be imposed for any violation of AS 46.04, any regulation issued there under, or any violation of a lawful order of the department.

INSPECTIONS, DRILLS, RIGHTS TO ACCESS, AND VERIFICATION OF EQUIPMENT, SUPPLIES, AND PERSONNEL: The department has the right to verify the ability of the plan holder to carry out the provisions of its plan and access to inventories of equipment, supplies, and personnel through such means as inspections and discharge exercises, without prior notice to the plan holder. The department has the right to enter and inspect the covered vessel or facility in a safe manner at any reasonable time for these purposes and to otherwise ensure compliance with the plan and the terms and conditions (AS 46.04.030[e] and AS 46.04.060). The plan holder shall conduct exercises for the purpose of testing the adequacy of the plan and its implementation (18 AAC 75.480 and 485).

FAILURE TO PERFORM: In granting approval of the plan, the department has determined that the plan, as represented to the department by the applicant in the plan and application for approval, satisfies the minimum planning standards and other requirements established by applicable statutes and regulations, taking as true all information provided by the applicant. The department does not warrant to the applicant, the plan holder, or any other person or entity: (1) the accuracy or validity

of the information or assurances relied upon; (2) that the plan is or will be implemented; or (3) that even full compliance and implementation with the plan will result in complete containment, control, or cleanup of any given oil spill, including a spill specifically described in the planning standards.

The plan holder is encouraged to take any additional precautions and obtain any additional response capability it deems appropriate to further guard against the risk of oil spills and to enhance its ability to comply with its duty under AS 46.04.020(a) to immediately contain and clean up an oil discharge.

COMPLIANCE WITH APPLICABLE LAWS: If amendments to the approved plan are necessary to meet the requirements of any new laws or regulations, the plan holder must submit an application for amendment to the department at the above address. The plan holder must adhere to all applicable state statutes and regulations as they may be amended from time to time. This approval does not relieve the plan holder of the responsibility for securing other federal, state, or local approvals or permits, and the plan holder is still required to comply with all other applicable laws.

INFORMAL REVIEW OR ADJUDICATORY HEARING: Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. **Informal review requests** must be delivered to the Division Director, 410 Willoughby Avenue, Suite 303, PO Box 111800, Juneau, Alaska 99811-1800 within 15 days of the permit decision.

Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, PO Box 111800, Juneau, Alaska 99811-1800, within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived. Anyone who submits a request for an informal review or an adjudicatory hearing should also send a copy of the request to the undersigned and the plan holder above.

If you have any questions, please contact Shannon DeWandel at 269-7541 or by email at shannon.dewandel@alaska.gov.

Sincerely,

Betty Schorr
Program Manager

Attachment: Summary of Basis for Department Decision

Enclosure: Certificate of Approval, Number 12CER-049

Electronic cc w/o enclosure:

Shannon DeWandel, ADEC
Graham Wood, ADEC
Steve Russell, ADEC

C-plan Reviewer, ADNR
Bradley Dunker, ADFG
Matt Carr, USEPA
Lieutenant Sarah Geoffrion, USCG Sector - Homer Detachment
LCDR Daniel Buchsbaum, USCG – Anchorage Sector
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Melanie Barber, USDOT
Stephen Miller, USFWS
Adelheid Marlowe, USDOT
Mike Thompson, PCO
Steve Catalano, CIRCAC
Tom Dearlove, KPB
Todd Paxton, CISPRI
Bob Shavelson, Cook Inletkeeper
Tom Lakosh

ALASKA DEPARTMENT
of
Environmental Conservation
Certificate of Approval
for
Oil Discharge Prevention and Contingency Plan

Certificate Number: **12CER-049** Plan Number: **12-CP-2019**

Name of Plan:	**Tesoro Alaska Company Kenai Refinery, Nikiski Terminal and Tesoro Alaska Pipeline Oil Discharge Prevention and Contingency Plan, Cook Inlet, Alaska**
Covered Facilities:	**Tesoro Alaska Company facilities including the Kenai Refinery, the Nikiski Terminal, and the refined products oil transmission line from Nikiski to the Anchorage Terminal**
Address:	**Tesoro Alaska Company, P. O. Box 3369, Kenai, AK 99611**
Telephone:	**(907) 776-8191** Fax: **(907) 776-3812**

Region of Operation (18 AAC 75.495): **Cook Inlet, Alaska**

Effective Date of Approval: **November 30, 2012** Expiration Date: **November 30, 2017**

This approval is subject to the terms and conditions of the applicable Alaska Department of Environmental Conservation contingency plan approval letter and continuing compliance with the requirements of AS 46.04 and 18 AAC 75.

Betty Schorr 11-30-2012

Betty Schorr, Approving Authority **Date**
Program Manager, Industry Preparedness Program

TABLE OF CONTENTS

INTRODUCTION

A. Response Plan Facility Information Sheet 1
B. Objective 4
C. Updating Procedures 5
D. Format 6
E. Statement of Corporate Commitment 8
F. EPA Applicability of Substantial Harm Criteria 9
G. Plan Distribution 10
H. Revision Record 12

PART 1 RESPONSE ACTION PLAN

1.1 Response Action Plan 1.1-1
1.1.1 RESPONSE ACTION ALERT NOTIFICATION 1.1-1
1.1.2 SPILL ACTION CHECKLISTS 1.1-2
Table 1.1-1 First Responder 1.1-2
Table 1.1-2 Area Supervisor 1.1-3
Table 1.1-3 Tank Farm Control Center 1.1-4
Table 1.1-4 Safety Coordinator 1.1-5
Table 1.1-5 Incident Commander 1.1-6
1.1.3 RESPONSE PROCEDURES FLOW CHART 1.1-7
1.2 REPORTING AND NOTIFICATION 1.2-1
Table 1.2-1 Spill Reporting Sequence 1.2-2
Table 1.2-2 Agency Reporting Requirements For Oil Spills 1.2-3
Figure 1.2-1 Oil Spill Discharge Information Required in a Report to the NRC 1.2-4
Figure 1.2-2 ADEC Spill Report Form 1.2-5
Table 1.2-3 Notification Summary 1.2-6
Table 1.2-4 Anchorage Phone Numbers 1.2-10
Table 1.2-5 Tesoro Immediate Response Team 1.2-11
Table 1.2-6 Tesoro Incident Management Team 1.2-11
1.3 SAFETY 1.3-1
1.3.1 INITIAL RESPONSE 1.3-1
Table 1.3-1 Established Exposure Limits for Benzene 1.3-3
1.3.2 FACILITY EVACUATIONS PLAN FOR TOTAL EVACUATION 1.3-3
Figure 1.3-1 Kenai Refinery Evacuation Routes 1.3-5
Table 1.3-2 Nikiski Terminal Evacuation Routes 1.3-7
1.3.3 ALASKA STATE TROOPERS RESPONSE 1.3-8
1.3.4 CHARACTERIZATION OF A RESPONSE SITE 1.3-8
1.3.5 SITE SECURITY 1.3-9
1.3.6 PERSONAL PROTECTIVE EQUIPMENT 1.3-9

1.3.7 DECONTAMINATION 1.3-9
1.3.8 EMERGENCY MEDICAL AND FIRST AID STATIONS 1.3-10
1.3.9 POST EMERGENCY CRITIQUE.....1.3.10
1.4 COMMUNICATIONS.....1.4-1
1.4.1 INITIAL SPILL COMMUNICATIONS 1.4-1
Table 1.4-1 Refinery Radio Frequencies.....1.4-1
1.4.2 MAJOR SPILL RESPONSE COMMUNICATIONS 1.4-1
1.5 OIL SPILL STRATEGIES.....1.5-1
1.5.1 GENERAL 1.5-1
1.5.2 TESORO ALASKA COMPANY 1.5-1
1.5.3 CISPRI DEPLOYMENT.....1.5-2
1.5.4 DEPLOYMENT TO A TESORO ALASKA PIPELINE SPILL 1.5-2
1.5.5 RESPONSE TIMES.....1.5-3
1.6 SPILL RESPONSE STRATEGIES.....1.6-1
1.6.1 OIL SPILL MITIGATION PROCEDURES 1.6-1
Table 1.6-1 Storage Tank Overflow 1.6-1
Table 1.6-2 Storage Tank Failure.....1.6-1
Table 1.6-3 Piping Rupture or Leak 1.6-1
Table 1.6-4 Earthquake – Pipeline.....1.6-2
Table 1.6-5 Terrorist Threat – Pipeline.....1.6-2
Table 1.6-6 Pipeline Failure – Swanson River.....1.6-2
1.6.2 RESPONSE SCENARIOS & STRATEGIES.....1.6-3
Response Scenario #1 .....1.6-5
Figure 1.6 -1 Response Scenario #1 Tesoro Organization Chart 1.6-6
Table 1.6-7 Response Scenario #1 General Response Objectives & Strategies – Day 1 .....1.6-7
Table 1.6-8 Response Scenario #1 Tactical Objectives – Day 1 .....1.6-8
Table 1.6-8 Response Scenario #1 Scenario Strategy – Day 1.....1.6-11
Table 1.6-10 Response Scenario #1 General Response Objectives & Strategies – Day 2 .....1.6-13
Table 1.6-11 Response Scenario #1 Tactical Objectives – Day 2 .....1.6-14
Table 1.6-12 Response Scenario #1 Scenario Strategy – Day Two 1.6-15
Table 1.6-13 Response Scenario #1 General Response Objectives & Strategies – Day 3 .....1.6-17
Table 1.6-14 Response Scenario #1 Tactical Objectives – Day 3 .....1.6-18
Table 1.6-15 Response Scenario #1 Scenario Strategy – Day 3.....1.6-19
Table 1.6-16 Response Scenario #1 General Response Objectives & Strategies – Day 4 & Beyond 1.6-21
Table 1.6-17 Response Scenario #1 Tactical Objectives – Day 4 & Beyond 1.6-22
Table 1.6-18 Response Scenario #1 Scenario Strategy – Day 4 & Beyond..1.6-23
Table 1.6-19 Response Scenario #1 Expected Timeline For Response Actions 1.6-25
Response Scenario #2 .....1.6-27

Figure 1.6-2 Response Scenario #2 Upper Cook Inlet, Alaska, Otter Creek Pipeline Vicinity....1.6-29
Figure 1.6-3 Response Scenario #2 Upper Cook Inlet, Alaska, Otter Creek Pipeline Detail....1.6-31
Figure 1.6-4 Response Scenario #2 Tesoro Organization Chart....1.6-33
Table 1.6-20 Response Scenario #2 General Response Objectives & Strategies – Day 1....1.6-34
Table 1.6-21 Response Scenario #2 Tactical Objectives – Day 1....1.6-35
Table 1.6-22 Response Scenario #2 Scenario Strategy – Day One....1.6-39
Table 1.6-23 Response Scenario #2 General Response Objectives & Strategies – Day 2....1.6-43
Table 1.6-24 Response Scenario #2 Tactical Objectives – Day 2....1.6-44
Table 1.6-25 Response Scenario #2 Scenario Strategy – Day Two....1.6-45
Table 1.6-26 Response Scenario #2 General Response Objectives & Strategies – Day 3....1.6-48
Table 1.6-27 Response Scenario #2 Tactical Objectives – Day 3....1.6-49
Table 1.6-28 Response Scenario #2 Scenario Strategy – Day 3....1.6-50
Table 1.6-29 Response Scenario #2 General Response Objectives & Strategies – Day 4 & Beyond....1.6-53
Table 1.6-30 Response Scenario #2 Tactical Objectives – Day 4 & Beyond 1.6-54
Table 1.6-31 Response Scenario #2 Scenario Strategy – Day 4 & Beyond..1.6-55
Table 1.6-32 Response Scenario #2 Expected Timeline For Response Actions 1.6-58
Response Scenario #3....1.6-59
Figure 1.6-5 Response Scenario #3 Tesoro Organization Chart....1.6-61
Table 1.6-33 Response Scenario #3 General Response Objectives & Strategies – Day 1....1.6-62
Table 1.6-34 Response Scenario #3 Tactical Objectives – Day 1....1.6-63
Figure 1.6-6 Response Scenario #3 Turnagain Arm, Alaska CISPRI Spill Trajectory (1800) Day One....1.6-66
Table 1.6-35 Response Scenario #3 Scenario Strategy – Day 1....1.6-67
Table 1.6-36 Response Scenario #3 General Response Objectives & Strategies – Day 2....1.6-71
Table 1.6-37 Response Scenario #3 Tactical Objectives – Day 2....1.6-72
Figure 1.6-7 Response Scenario #3 Turnagain Arm, Alaska CISPRI Spill Trajectory (0200) Day Two....1.6-73
Table 1.6-38 Response Scenario #3 Scenario Strategy – Day Two....1.6-74
Table 1.6-39 Response Scenario #3 General Response Objectives & Strategies – Day 3....1.6-76
Table 1.6-40 Response Scenario #3 Tactical Objectives – Day 3....1.6-77
Figure 1.6-8 Response Scenario #3 Turnagain Arm, Alaska CISPRI Spill Trajectory (0600) Day Three....1.6-78
Table 1.6-41 Response Scenario #3 Scenario Strategy – Day 3....1.6-79
Table 1.6-42 Response Scenario #3 General Response Objectives & Strategies – Day 4 & Beyond....1.6-82

Table 1.6-43 Response Scenario #3 Tactical Objectives – Day 4 & Beyond 1.6-83
Table 1.6-44 Response Scenario #3 Scenario Strategy – Day 4 & Beyond..1.6-84
Table 1.6-45 Response Scenario #3 Expected Timeline For Response Actions 1.6-86
Response Scenario #4 .....1.6-87
Figure 1.6-9 Response Scenario #4 Tesoro Organization Chart 1.6-89
Table 1.6-46 Response Scenario #4 General Response Objectives & Strategies – Day 1 .....1.6-90
Table 1.6-47 Response Scenario #4 Tactical Objectives – Day 1 .....1.6-91
Table 1.6-48 Response Scenario #4 Scenario Strategy – Day 1.....1.6-95
Table 1.6-49 Response Scenario #4 General Response Objectives & Strategies – Day 2 .....1.6-97
Table 1.6-50 Response Scenario #4 Tactical Objectives – Day 2 .....1.6-98
Table 1.6-51 Response Scenario #4 Scenario Strategy – Day Two 1.6-99
Table 1.6-52 Response Scenario #4 General Response Objectives & Strategies – Day 3 & Beyond 1.6-101
Table 1.6-53 Response Scenario #4 Tactical Objectives – Day 3 & Beyond1.6-102
Table 1.6-54 Response Scenario #4 Scenario Strategy – Day 3 & Beyond1.6-103
Table 1.6-55 Response Scenario #4 Expected Timeline For Response Actions 1.6-105
1.7 NON-MECHANICAL RESPONSE INFORMATION 1.7-1
1.8 FACILITY DESCRIPTION 1.8-1

PART 2 PREVENTION PLAN

2.1PREVENTION PROGRAMS IN PLACE 2.1-1
2.1.1 PREVENTION TRAINING PROGRAMS.....2.1-1
2.1.2 SUBSTANCE ABUSE AND MEDICAL CONDITION PROGRAMS 2.1-2
2.1.3 SECURITY PROGRAMS 2.1-2
2.1.4 PETROLEUM TRANSFER PROCEDURES 2.1-3
2.1.5 OIL STORAGE TANKS 2.1-4
2.1.6 OPERATING CHECKLISTS AND REPORTS.....2.1-5
Tank Farm And Tesoro Alaska Pipeline.....2.1-7
Crude Unit Control Room 2.1-8
Hydrocracker Control Room 2.1-8
2.1.7 SECONDARY CONTAINMENT.....2.1-8
Figure 2.1-1 Typical Bentonite Liner Cross Section.....2.1-9
Table 2.1-1 Secondary Containment System Summary.....2.1-10
2.1.8 FACILITY PIPING CORROSION CONTROL PROGRAM 2.1-11
Tesoro Alaska Pipeline.....2.1-13
Corrosion Survey.....2.1-14
2.1.9 STORAGE TANK OVERFILL PROTECTION 2.1-14
2.2 DISCHARGE HISTORY 2.2-1
Table 2.2-1Kenai Refinery Spill History—1981 Through 1991.....2.2-2
Table 2.2-2 Kenai Refinery Spill History January 1992 to March 2010 .....2.2-3

Table 2.2-3 Kenai Pipeline Spill History January 1992 to June 2010.....2.2-16
2.3 POTENTIAL DISCHARGE ANALYSIS.....2.3-1
2.3.1 STORAGE TANK FAILURE.....2.3-1
2.3.2 STORAGE TANK LEAKS OR OVERFLOWS.....2.3-1
2.3.3 SPILLS AT TANK TRUCK LOADING RACK.....2.3-2
2.3.4 TRANSFER PIPELINE LEAKS OUTSIDE IMPOUNDMENT AREAS.....2.3-2
2.3.5 LEAKS FROM UNDERGROUND OILY SEWER LINES.....2.3-2
2.3.6 TESORO ALASKA PIPELINE LEAKS.....2.3-2
2.3.7 REFINERY PROCESS LEAKS.....2.3-3
2.3.8 SUMMARIES OF DISCHARGE ESTIMATES.....2.3-4
Table 2.3-1 Estimate of Potential Discharge Volumes in Barrels by USCG Oil Group Definitions.....2.3-4
2.4 CONDITIONS THAT MIGHT INCREASE THE RISK OF DISCHARGE.....2.4-1
2.4.1 SEISMIC ACTIVITIES.....2.4-1
2.4.2 TSUNAMI WARNING.....2.4-1
2.4.3 WINTER CONDITIONS.....2.4-1
2.5 EXISTING AND PROPOSED DISCHARGE DETECTION.....2.5-1
2.5.1 DISCHARGE DETECTION FOR EXISTING INSTALLATIONS.....2.5-1
2.5.2 DISCHARGE DETECTION FOR PIPING.....2.5-2
2.5.3 DISCHARGE DETECTION FOR TESORO ALASKA PIPELINE.....2.5-2
2.6 FACILITY WAIVERS IN EFFECT.....2.6-1
2.6.1 BENTONITE ENHANCED SOIL SECONDARY CONTAINMENT.....2.6-1
2.6.2 51 TANK LEAK DETECTION WAIVER.....2.6-2
2.6.3 ROUTINE WAIVERS.....2.6-2
Figure 2.6-1 Tesoro Bentonite Waiver.....2.6-3
Figure 2.6-2 51 Tank Waiver.....2.6-5
2.7 BENTONITE ENHANCED SOIL SECONDARY CONTAINMENT SYSTEM AGREEMENT.....2.7-1

PART 3 SUPPLEMENTAL INFORMATION

3.1 FACILITY DESCRIPTION.....3.1-1
3.1.1 KENAI REFINERY.....3.1-1
Table 3.1-1 Physical Properties of Selected Hydrocarbon Products.....3.1-2
Table 3.1-2 Tesoro Alaska Process Tank Summary.....3.1-3
Table 3.1-3 Miscellaneous Tank Summary.....3.1-4
3.1.2 NIKISKI TERMINAL.....3.1-4
3.1.3 TESORO ALASKA PIPELINE.....3.1-4
3.2 RECEIVING ENVIRONMENT.....3.2-1
3.2.1 OIL SPILLED FROM THE TESORO KENAI REFINERY OR NIKISKI TERMINAL.....3.2-1
3.2.2 OIL SPILLED FROM THE TESORO ALASKA PIPELINE.....3.2-2
3.2.3 OIL SPILLED FROM THE ANCHORAGE RECEIVING FACILITY.....3.2-2
3.3 INCIDENT COMMAND SYSTEM.....3.3-1
3.3.1 QUALIFIED INDIVIDUALS.....3.3-1
3.3.2 TESORO INCIDENT COMMAND CENTERS.....3.3-2

3.3.3 UNIFIED COMMAND STRUCTURE 3.3-2
Figure 3.3-1 Unified Command Organization 3.3-2
3.3.4 DOCUMENTATION....3.3-3
3.3.5 GOVERNMENT AGENCIES 3.3-3
Figure 3.3-2 Tesoro Incident Command System Organization 3.3-5
3.3.6 SPILL MANAGEMENT TEAM DUTIES AND RESPONSIBILITIES....3.3-6
Spill Response Manager 3.3-6
Command Staff 3.3-6
Operations Section....3.3-6
Finance Section....3.3-7
Planning Section 3.3-7
Logistics Section 3.3-7
3.4 REALISTIC MAXIMUM RESPONSE OPERATING LIMITATIONS....3.4-1
3.5 LOGISTICAL SUPPORT....3.5-1
3.6 RESPONSE EQUIPMENT 3.6-1
3.6.1 KENAI REFINERY SPILL CONTROL EQUIPMENT....3.6-1
3.6.2 OTHER EMERGENCY EQUIPMENT....3.6-2
3.7 NON-MECHANICAL RESPONSE INFORMATION 3.7-1
3.8 RESPONSE CONTRACTOR INFORMATION 3.8-1
3.8.1 ALASKA INDUSTRIAL SPILL COOPERATIVES....3.8-1
3.8.2 INDUSTRIAL RESPONSE ACTION CONTRACTORS....3.8-1
3.9 SPILL RESPONSE TRAINING....3.9-1
3.9.1 TESORO INCIDENT COMMAND TRAINING....3.9-1
Table 3.9-1 Response Training Matrix 3.9-1
3.9.2 TESORO IMMEDIATE RESPONSE TEAM 3.9-2
3.9.3 GENERAL LABOR SPILL RESPONSE TRAINING....3.9-2
3.9.4 PREPAREDNESS FOR RESPONSE EXERCISE PROGRAM....3.9-2
Figure 3.9-1Tesoro Exercise Documentation Form....3.9-3
Figure 3.9-2 Tesoro Emergency Procedures Exercise Form....3.9-4
Figure 3.9-3 Tesoro Equipment Deployment Exercise Form 3.9-5
Figure 3.9-4 Tesoro Spill Management Team Tabletop Exercise Form....3.9-6
Table 3.9-2 Suggested Training Elements 3.9-7
3.10 PROTECTION OF ENVIRONMENTALLY SENSITIVE ARES....3.10-1
3.10.1 ENVIRONMENTAL RESOURCE INFORMATION....3.10-1
3.10.2 CULTURAL RESOURCES....3.10-2
3.10.3 AREAS OF PUBLIC CONCERN....3.10-2
3.10.4 AREAS RECEIVING PRIORITY PROTECTION....3.10-2
3.10.5 WILDLIFE....3.10-3
3.11 BIBLIOGRAPHY 3.11-1

PART 4 BEST AVAILABLE TECHNOLOGY

4.1 BEST AVAILABLE TECHNOLOGY....4.1-1
4.1.1 COMMUNICATIONS....4.1-3
Table 4.1-1 Communications (18 AAC 75.425(e)(4)(A)(i))....4.1-3

4.1.2 SOURCE CONTROL PROCEDURES....4.1-5
Table 4.1-2 Source Control Procedures (18 AAC 75.425(e)(4)(A)(i)) 4.1-5
4.1.3 TRAJECTORY ANALYSES AND FORECASTS....4.1-7
Table 4.1-3 Trajectory analyses and forecasts (18 AAC 75.425(e)(4)(A)(i)) ...4.1-7
4.1.4 WILDLIFE CAPTURE, TREATMENT, AND RELEASE PROGRAMS 4.1-9
Table 4.1-4 Wildlife Capture, Treatment, and Release Programs....4.1-9
4.1.5 OIL STORAGE TANKS 4.1-11
Table 4.1-5 Oil Storage Tank CP and Corrosion Control (18 AAC 75.425(e)(4)(A)(ii)) 4.1-11
Table 4.1-6 Oil Storage Tank Leak Detection (18 AAC 75.425(e)(4)(A)(ii)) ..4.1-13
Table 4.1-7 Oil Storage Tank Liquid Level Monitoring (18 AAC 75.425(e)(4)(A)(ii)) 4.1-15
4.1.6 PIPING CORROSION CONTROL....4.1-17
Table 4.1-8 Piping Corrosion Control (18 AAC 75.425(e)(4)(A)(ii))....4.1-17
Table 4.1-9 Piping Corrosion Survey (18 AAC 75.425(e)(4)(A)(ii)) 4.1-19

PART 5 RESPONSE PLANNING STANDARD

5.1 RESPONSE PLANNING STANDARDS 5.1-1
5.1.1 OIL TERMINAL FACILITY – RESPONSE PLANNING STANDARD 5.1-1
5.1.2 TESORO PIPELINE – RESPONSE PLANNING STANDARD 5.1-1
5.1.3 USCG RESPONSE PLANNING STANDARDS 5.1-2
5.1.4 DOT RESPONSE PLANNING STANDARDS 5.1-3
5.1.5 EPA RESPONSE PLANNING STANDARDS....5.1-3

APPENDIX A CISPRI RESPONSE CONTRACT

APPENDIX B DRAWINGS

APPENDIX C ACRONYMS & DEFINITIONS

APPENDIX D AGENCY CROSS-REFERENCE

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INTRODUCTION

A. RESPONSE PLAN FACILITY INFORMATION SHEET

This cover sheet provides Federal and State agencies with basic facility information.

Facility Owner/Operator:	Kenai Alaska Company
Facility Name:	Tesoro Refining & Marketing Company LLC (Kenai Refinery)
(b) (7)(F)	[redacted]
Mailing Address:	P.O. Box 3369
City, State, Zip Code:	Kenai, Alaska 99611
Borough/County/Parish:	Kenai Peninsula Borough
Owner Telephone Number (24 hrs):	(907) 776-8333 (Tesoro Refinery Number)
Facility Telephone Number:	(907) 776-8191
Facility Facsimile Number:	(907) 776-3812
(b) (7)(F)	[redacted]
Standard Industrial Classification Code:	2911 (SIC)
Owner Telephone Number (24 hrs):	(907) 776-8333 (Tesoro Refinery Number)
Dun & Bradstreet Number:	8133480
(b) (7)(F)	[redacted]
Facility Distance to Navigable Water:	½ mile
Facility Oil Storage Start-Up Date:	1969 (Tesoro)
Normal Daily Throughput: Refinery	2,310,000 GALS/DAY (55,000 BBLS/DAY)
Normal Daily Throughout: Nikiski Terminal	75,000 GALS/DAY (1785 BBLS/DAY)
Normal Daily Throughout: Tesoro Pipeline	1,512,000 GALS/DAY (36,000 BBLS/DAY)
Hours of Operation:	24 hours/day, 7 days a week
Wellhead Protection Area:	N/A
Oil Spill Response Organization (OSRO):	Cook Inlet Spill Prevention and Response Inc. CISPRI (907) 776-5129
Response Zone Definition:	The operation of the Tesoro Kenai Refinery, Nikiski Terminal and Tesoro Alaska Pipeline as described in this plan is located within a single spill response planning

	zone with primary response services provided by only one Oil Spill Response Organization (OSRO). Therefore, for the purpose of spill planning, the strategy provided by this plan has not been further subdivided into Department of Transportation spill response subsections.
DOT OPS Pipeline Oil Type	Non-persistent
(b) (7)(F) [redacted]	[redacted]
DOT OPS Line Sections	Tesoro Alaska Pipeline (See Section 3.1)
(b) (7)(F) [redacted]	[redacted]
DOT OPS Line Sections	Tesoro Alaska Pipeline (See Section 3.1)
Kenai Refinery Products Stored / Transported:	Gasoline (Non-persistent) Naphtha (Non-persistent) Diesel Fuels (Non-persistent) Crude Oils (Persistent Groups II - III) Gas Oils (Persistent Groups II - III) Residual Oils (Persistent Groups III - IV) Asphalt
Insurance Representative Property & Casualty:	Aon Risk Services - (832) 476-6718
EPA Applicability of Substantial Harm Criteria:	Tesoro believes that an oil spill from this facility has the potential to impact navigable waters, fish, and wildlife. Tesoro has prepared this response plan (EPA) since the Facility meets at least one of the "Substantial Harm Criteria" defined in 40 CFR Part 112, Appendix F (2.0)
DOT-OPS Significant & Substantial Harm Criteria	▪ The Tesoro Alaska Pipeline is greater than 6 5/8 inches in outside nominal diameter. ▪ The Tesoro Alaska pipeline is greater than 10 miles in length. ▪ Is located within a 1 mile radius of potentially affected environmentally sensitive area and has the potential to reach these areas. Tesoro has prepared this response plan (DOT-OPS) since the pipeline meets at least one of the "Significant & Substantial Harm Criteria" defined in 49 CFR Part 194.103.
Contingency Plan Contact:	Tesoro Refining & Marketing Company LLC PO Box 3369

	Kenai, Alaska 99611
Contact:	**Attn:** Peter Ribbens
Phone Number:	**(**907) 776-3595
RCRA Applicability	This document incorporates the RCRA (Resource Conservation and Recovery Act) Contingency Plan for Tesoro Refining & Marketing Company LLC, Kenai Refinery as required by 40 CFR 262.34 (a) (4). As such, it addresses the potential impact on public health or the environment of any emergencies involving fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.
RCRA Resuming Operations	Ensure compliance in accordance with the requirements of 40 CFR 265.56 (h) thru (j)
RCRA Permit number:	AKD 048 0679 682
EPA Plan number:	FRPAKA 0006
DOT Office of Pipeline Safety Plan number:	0077
USCG Plan number:	031-93

B. OBJECTIVE

The objective of this Oil Discharge Prevention and Contingency Plan is to provide readily accessible information and basic instruction about oil spill response procedures and reporting requirements in Alaska to personnel involved with Tesoro Refining & Marketing Company LLC (Tesoro) Kenai Refinery, Nikiski Terminal and Tesoro Alaska Pipeline operations. This Plan is written to demonstrate to the Alaska Department of Environmental Conservation (ADEC), Coast Guard (USCG), Environmental Protection Agency (EPA), and Department of Transportation (DOT) that Tesoro has planned adequately and has access to resources to respond in the shortest feasible time to an release within the area described in this Plan.

The Tesoro facilities covered by this Plan handle crude and refined petroleum hydrocarbons. The refined products include light products such as gasolines; medium products such as diesel and jet fuel, and heavier products such as heavy atmospheric gas oil, residual oil, and Bunker C oil, and asphalt. All of these products may be generically referred to in this Plan by terms such as "oil," "hydrocarbons," or "product." Oil spills from facilities covered by this Plan may occur in locations such that the oil may have the potential to impact land, fresh water lakes, streams, or the waters of Cook Inlet.

Tesoro is a member of CISPRI and will utilize CISPRI personnel, equipment, and contractors for response to most spills from Tesoro facilities. This does not preclude the option of using contractors other than CISPRI for an spill response operation or the response to any oil spill.

Tesoro has several facilities in Alaska covered by various oil spill contingency plans. It is important for persons reviewing this document to clearly understand which areas of Tesoro operations are covered by this Plan. It covers all operations at the Tesoro Kenai Refinery and Nikiski Terminal. This Plan covers operations at truck loading racks associated with the Tesoro Kenai Refinery and Nikiski Terminal. Contingency planning coverage transfers from Tesoro to the truck operator at the flange which connects Tesoro owned equipment to the truck. This Plan covers the Tesoro Alaska Pipeline from the Kenai Refinery to the flanges which joins customer pipelines to the Tesoro distribution manifold in Anchorage. It does not include customer pipelines located in the Port of Anchorage. A separate contingency plan for the Tesoro Anchorage Terminal has been prepared; therefore information concerning the Anchorage Terminal other than for equipment associated with the Tesoro Anchorage Pipeline is not included in this refinery Plan.

This Plan does not cover loading equipment or operations at Conoco-Phillips, KPL, or the Port of Anchorage docks.

Determining which agency is in charge can be complex. The following information may help the spill responder understand which agency or agencies may have primary jurisdiction:

AGENCY	JURISDICTION	COMMENTS
ADEC	Alaska lands & waters to the 3 mile territorial limit	All spills on or threatening Alaska lands or waters.
ADOL	Spill response and general safety requirements on Alaska lands	Health and safety issues relating to spill response activities at the Tesoro Kenai Refinery, Pipeline, and Nikiski Terminal.
EPA	Non-transportation related on-shore oil storage & production facilities	Spills from the Tesoro Kenai Refinery and Nikiski Terminal.
DOI	Off-shore facilities & pipelines	Spills from the Tesoro Alaska Pipeline.
DOT-OPS	DOT Pipelines	Spills from the Tesoro Alaska Pipeline.
USCG	Vessels & marine transfer-related facilities	Spills from vessels or other spills into navigable waterways. Spills caused by facility equipment which connects a vessel and the valve inside of a secondary containment dike that separates the transportation and non-transportation portions of the facility.

C. UPDATING PROCEDURES

This Plan will be revised and/or updated as appropriate. Criteria which may trigger an update will include:

- The plan will be reviewed on an annual basis.
- The plan will be resubmitted to ADEC, DOT-OPS, USCG, EPA every five years for review and approval.
- The plan will be modified within 30 days whenever a spill drill evaluation indicates that any section is no longer adequate.
- This plan will be modified within 30 days whenever the response to an oil spill indicates that any section of this plan is no longer adequate.
- This document will be reviewed and updated within 30 days whenever significant changes are made to the facility.

These include:

- An major expansion or modification to the Facility
- Significant change in Response Contractor information.
- Change in State or Federal Response Planning Requirements

  - Change in Facility ownership
  - Change in Qualified Individuals

- This plan must be reviewed and amended under RCRA requirements if the plan fails in an release response or there are changes to one of the following:
  - The applicable regulations.
  - The facility, such that the changes materially affect the probability or type of a potential spill.
  - The list of response coordinators.
  - The list of response equipment.
  - This plan fails in an response.

Revisions will be consecutively numbered and issued to designated Plan Holders. Upon receipt of any revisions, the Plan Holder will be directed to replace pages as instructed and record all changes on the Record of Revisions form provided in the front of each document. It will be the responsibility of each Plan Holder to ensure that all updates are promptly incorporated into their copy of the Plan.

D. FORMAT

This Plan is one of a series of state and federal plans which are used to guide and direct oil spill procedures. Tesoro has reviewed the **National Contingency Plan** as published in the September 15, 1994 Federal Register as 40 CFR Parts 9 and 300 which became effective on October 17, 1994. Tesoro has also reviewed the **Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substances** (Unified Plan Volume I dated May, 2004) as well as the draft **Cook Inlet Area/Regional Contingency Plan** (Volume II, released in 1997). The Tesoro Refining & Marketing Company LLC Oil Discharge Prevention and Contingency Plan is consistent with these state and federal plans. This plan meets the State of Alaska regulations per 18 AAC 75, Article 4 and is presented in the same order as 18 AAC 75.425 (e).

This Plan is divided into **five** parts: Part I, **Response Action Plan**; Part II, **Prevention Plan**; and Part III, **Supplemental Information**; Part IV, **Best Available Technology**; Part V, **Response Planning Standard**. . A Statement of Corporate Commitment is located in this section indicating Tesoro's approval of the Plan and authorizing resources as required in accordance with the Plan. Principal information contained in each part of this plan is outlined as follows:

Part I - Response Action Plan

The Response Action Plan includes an oil spill response action checklist, reporting and notification information, safety and communication procedures, deployment strategies, and response strategies.

Part II - Prevention Plan

The Prevention Plan includes a detailed description of oil discharge prevention measures and policies employed by Tesoro with reference to the risks involved. The Prevention Plan contains a description and schedule of regular pollution prevention, inspection, and maintenance programs; a

history of all known discharges greater than 55 gallons; an analysis of potential oil discharges; a description of any conditions which might increase the risk of a discharge; a description of the existing and proposed means of discharge detection; a detailed basis for the calculation of exceptions; and a compliance schedule where applicable.

Part III - Supplemental Information

The supplemental information section provides background and verification information. This information includes facility information and an operational overview, the Tesoro Incident Command System, realistic maximum response operating limitations, logistical support, response equipment, non-mechanical response information, response contractor information, training, and protection of environmentally sensitive areas or areas of public concern.

Part IV – Best Available Technology

This section provides an analysis and justification for determining Best Available Technology in keeping with the ADEC Draft BAT guidelines.

Part V – Response Planning Standard

This section provides the Response Planning Standards (RPS) on which this plan is based.

E. STATEMENT OF CORPORATE COMMITMENT

OIL DISCHARGE PREVENTION AND CONTINGENCY PLAN

TESORO REFINING & MARKETING COMPANY LLC

KENAI REFINERY, NIKISKI TERMINAL, TESORO ALASKA PIPELINE

This Oil Discharge Prevention and Contingency Plan covers Tesoro Refining & Marketing Company LLC operations adjacent to Cook Inlet, Alaska. These operations include oils receipt and shipment from the Kenai Pipeline Company and Phillips docks; crude and refined products processing, storage and loading at the Tesoro Kenai Refinery; refined product terminalling at Tesoro Nikiski Terminal, and; refined products shipment to Anchorage via Tesoro Alaska Pipeline.

MANAGEMENT APPROVAL
AND
MANPOWER AUTHORIZATION

The necessary resources to implement this plan are hereby committed. In the event of an oil spill for which Tesoro Refining & Marketing Company LLC is responsible, best efforts will be initiated to expeditiously control and remove any harmful quantity of oil discharged.

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

James Tangaro

James Tangaro

Vice President Kenai Refinery

12-5-12

Date

F. EPA - APPLICABILITY OF SUBSTANTIAL HARM CRITERIA

Tesoro Refining & Marketing Company LLC
Kenai Refinery
Mile 22.5, Kenai Spur Highway
P.O. Box 3369
Kenai, Alaska 99611

Does the facility transfer oil over-water to or from vessels and does the facility have total oil storage capacity greater than or equal to 42,000 gallons?	**YES**
Does the facility have a total storage capacity of greater than or equal to 1 million gallons and does that 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 participation with any aboveground oil storage tank area?	**NO**
Does the facility have a total oil storage capacity of greater than or equal to a million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?	**YES**
Does that facility have a total oil storage capacity of greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?	**NO**
Does the facility have a total oil storage capacity of 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?	**NO**

Certification

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

James Tangaro

James Tangaro

Vice President Kenai Refinery

12-5-12

Date

G. PLAN DISTRIBUTION

Copies of the Facility Response Plan shall be maintained within a central location, accessible at any given time by the Qualified Individual/Incident Commander and designated members of the Tesoro Spill Response Team.

Plan #	Name	Address
1	Tesoro Peter Ribbens	Manager Oil Spill Planning P.O. Box 3369 Kenai, AK 99611
2	Tesoro Shawn Brown	Manager Pipelines & Terminals P.O. Box 3369 Kenai, AK 99611
3 1 Electronic	Tesoro Rob Donovan	Vice-President Environmental Compliance 3450 S. 344th Way, Suite 100 Auburn, WA 98001-5931
4	Tesoro Eric Haugstad	Manager, Contingency Planning & Emergency Response 19100 Ridgewood Pkwy. San Antonio, TX 78259
5	Tesoro	Tesoro Anchorage Pipeline Office
6	Tesoro	Tesoro Tank Farm Office
7	Tesoro	Refinery Crude Unit
8	Tesoro	Refinery Hydrocracker Unit
9	Tesoro	Refinery Environmental Department
10	Tesoro	Tesoro Safety Department
11-14 2 Electronic	ADEC Shannon DeWandel	Division of Spill Prevention & Response – IPPP 555 Cordova Street, 2nd Floor Anchorage, AK 99501
15, 16 1 Electronic	ADEC Steve Russell	Division of Spill Prevention & Response 43335 Kalifornsky Beach Road, Suite 11 Soldotna, AK 99669
17 1 Electronic	ADF&G Brad Dunker	333 Raspberry Road Anchorage, AK 99518
18 1 Electronic	ADNR Samantha Carroll	550 W. 7th Avenue, Suite 1430 Anchorage, AK 99501
19, 20 1 Electronic	ADNR Phae Morgan	Division of Mining, Land, and Water South Central Region Office 550 West 7th Avenue, Suite 900 Anchorage, AK 99501
21, 22	U.S. EPA Matt Carr	Federal Building 222 West 7th Avenue, Box 19 Anchorage, AK 99213-7588
23 1 Electronic	U.S. Coast Guard Lieutenant Sarah Geoffrion	USCG, MSD Homer 104 E. Pioneer Ave. Homer, AK 99603

Plan #	Name	Address
24, 25 2 Electronic	Department of Transportation Melanie Barber	Office of Pipeline Safety Room E22-210 1200 New Jersey Avenue, S.E. Washington, DC 20590
26 1 Electronic	Department of Transportation Mike Thompson	Joint Pipeline Office 411 West 4th Avenue, Suite 2C Anchorage, AK 99501
27 1 Electronic	USFWS Claire Caldes	Kenai Wildlife Refuge P.O. Box 2139 Soldotna, AK 99669
28	CISPRI	P.O. Box 7314 Nikiski, AK 99635
29	OSG Tom Garrett	302 Knights Run Avenue, Suite 1200 Tampa, FL 33602
30 1 Electronic	Kenai Peninsula Borough Tom Dearlove	144 North Binkley Street. Kenai, AK 99669
31	CIRCAC Steve Catalano	P.O. Box 2029 Kenai, Alaska 99611
32	Cook Inlet Keeper Bob Shavelson	P.O. Box 3269 Homer, AK 99603

H. REVISION RECORD

Revision#	Date	Description	Initial
0 Original	November 2012	Approved Plan	

PART 1
RESPONSE ACTION PLAN

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1.1 RESPONSE ACTION PLAN

1.1.1 RESPONSE ACTION ALERT NOTIFICATION

All employees, encountering or responding to an oil release, will first attend to their own safety. Notification to the operational control room responsible for the affected process unit will initiate this Response Plan. The alert notification can be made by radio or telephone to the appropriate control room. Personnel should provide the Control Operator with the following information when reporting a spill:

- **What type of release exists? What is the location of the release?**
- **What is the extent of the release?**
- **Are there any injuries involved?**
- **What are the environmental conditions? (Wind direction, etc.)**

The Control Operator, after receiving the report of an release, will notify all Tesoro refinery personnel of the release via the plant-wide loudspeaker using both the siren and voice communication systems, and by radio on all frequencies as appropriate. Any time the siren is sounded this Response Action Plan shall be activated. Tesoro Refining & Marketing Company LLC, Crisis Management Team members can be alerted using the “Send Word Now” program.

After notification is made at the facility, a call will be made to **911, as appropriate**. This call is to be made by the Tank Farm Control Center Operator (CO) immediately upon receiving the notification of a spill.

The Control Operator (CO) will also notify neighboring facilities, as required. Notification Numbers are provided in Section 1.2 Reporting and Notifications.

1.1.2 SPILL ACTION CHECKLISTS

Table 1.1-1

FIRST RESPONDER	
TIME	RECORD TIME EACH ACTION IS COMPLETED
	Contact the appropriate operational control room to report the release and activate the Response Action Plan
	Attend to injured personnel, protect them or remove them.
	Request medical assistance if needed.
	Remove or shut down any ignition sources.
	Prevent new ignition sources from entering the area for potential explosion and fire hazards.
	Use a multi-gas detector to monitor the area for potential explosion and fire hazard.
	Locate the source of the spill, notify operations personnel or call control room for permission to isolate.
	Review the situation with your Area Supervisor or designated Incident Commander. Remain until relieved.

Table 1.1-2

AREA SUPERVISOR	
TIME	RECORD TIME EACH ACTION IS COMPLETED
	Ensure Safety of personnel.
	Ensure that the Tank Farm Control Room has initiated Notification Procedures.
	Designate personnel to use monitoring equipment to establish a restricted safety zone. (Multi-Gas Detectors)
	Evacuate area if appropriate.
	Secure the area to keep non-essential personnel out.
	If possible, stop or control the spill. Attempt to restrict the spread
	Contract Security to open the front gate and control incoming traffic.
	Document (Maintain Unit Log) your activities and actions including equipment and personnel requested and on-scene, Chronology of events, current staffing and notification.
	The area Supervisor has the authority to activate the Tesoro Spill Response Team, Nikiski Fire Department, CISPRI, and act as Incident Commander if the designated Incident Commander, Deputy Incident Commander or if a more senior Tesoro manager cannot be located. Remain until relieved.

Table 1.1-3

TANK FARM CONTROL CENTER	
TIME	**RECORD TIME EACH ACTION IS COMPLETED**
	Sound emergency siren (Whelen).
	Announce release event over the Speaker system.
	Announce release event over all Refinery / K.P.L. Radio Frequencies.
	Call 911.
	Call Security to control access to the Facility.
	Notify appropriate response personnel by using the information provided in Section1.2.
	Notify the Manager, Environmental, Health & Safety (EHS)
	Notify the Refinery, Vice-President
	Notify the Refinery Manager, Operations
	Notify the Manager, Pipeline and Terminals
	Notify the Tesoro Safety Coordinator
	Notify the Tesoro Manager Oil Spill Planning Response to activate Immediate Response Team (IRTS) for an oil spill
	For large incidents that need activation of the Tesoro Crisis Management Team contact Tesoro Main Gate Security to activate "Send-Word-Now" program.
	Document (Maintain Unit Log) you activities and actions including equipment and personnel requested and on-scene, Chronology of events, current staffing and notification.

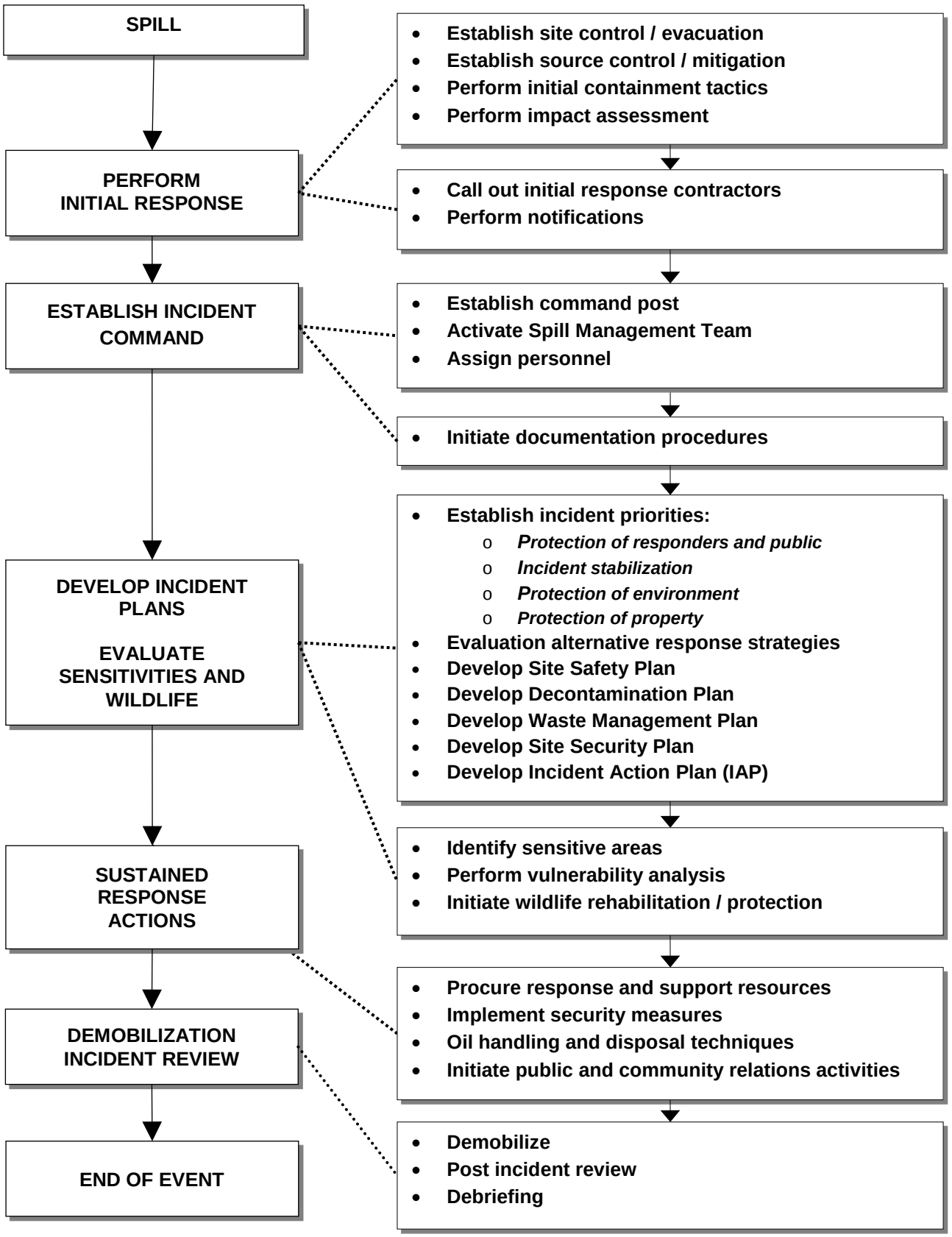
Table 1.1-4

SAFETY COORDINATOR	
TIME	**RECORD TIME EACH ACTION IS COMPLETED**
	Use a gas monitor to evaluate the potential explosion and fire hazard.
	Take actions to assure that appropriate personal protection equipment is being worn.
	Establish **HOT**, **WARM**, and **COLD** work zones.
	Receive report from the Area Supervisor of all emergency response efforts underway.

Table 1.1-5

INCIDENT COMMANDER	
TIME	**RECORD TIME EACH ACTION IS COMPLETED**
	Receive the initial report from the Area Supervisor or Control Room.
	Ensure that the Response Action Plan has been activated
	Send the Tesoro Oil Spill Initial Assessment Team or selected members to the spill site. (See Section 1-2, Notifications)
	Alert Tesoro Responders, CISPRI, and contractors as appropriate for potential response. (See Section 1-2, Notifications)
	Receive report from the Oil Spill Initial Assessment Team.
	Activate Tesoro responders, contractors and CISPRI.
	Verify that notifications were completed as required including: (by using the information provided in Section 1.2 Reporting and Notifications)
	National Response Center (USCG, DOT, EPA, MMS)
	ADEC (24 hour number and local number)
	Local USCG office (if Navigable Waterway involved)
	Police and Fire Department
	Kenai Peninsula Borough Emergency Services
	Tesoro Senior Management
	City of Anchorage Emergency Services (as needed)
	Cook Inlet Regional Citizens Advisory Council
	Set up Command Post on site or move Crisis Management Team to the CISPRI Command Post at mile 26.5 Kenai Spur Highway.
	Implement Incident Command System and issue objectives.
	Brief the various Response Teams, Contractors, Federal and State Agencies as appropriate.
	Notify other agencies & potentially impacted parties as appropriate.

1.1.3 RESPONSE PROCEDURES FLOW CHART



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1.2 REPORTING AND NOTIFICATION

SPILLAGE OF ANY PETROLEUM HYDROCARBON OTHER HAZARDOUS SUBSTANCE ONTO LAND OR WATER MUST BE IMMEDIATELY REPORTED.

THERE ARE NO EXCEPTIONS!

The Incident Commander or his designee is responsible for reporting all oil spills from Tesoro facilities within mandated time frames to the required State and Federal agencies. Personal and direct communication must be made by the, Qualified Individual, Incident Commander or his designee. The Tesoro Incident Commander should confirm that all spills from Tesoro facilities are properly reported.

If a spill is detected the following information must be provided to the Qualified Individual, Incident Commander or his designee, or it may be reported to the agencies:

1. **Was anyone hurt?**
2. **Location of spill.**
3. **Time of spill**
4. **Product/volume spilled.**
5. **Source of spill.**
6. **Actions taken.**
7. **Weather conditions.**
8. **Projected spill movement.**
9. **Equipment needed.**
10. **Environmental concerns.**

Never speculate or guess when discussing or reporting a spill. Report only facts

REPORT ALL SPILLS TO:

STATE OF ALASKA

ADEC Central Alaska Response Team (Anchorage, Alaska)	(907) 269-3063
ADEC after hours	(800) 478-9300
State Pipeline Coordinator's Office (SPCO) Tesoro Alaska Pipeline spills only	(907) 269-6403

IN ADDITION REPORT ALL MARINE SPILLS TO:

U.S. COAST GUARD

USCG Sector Anchorage, Anchorage, Alaska	(907) 271-6700
USCG Marine Safety Detachment Homer, Alaska	(907) 235-3292
NRC, National Response Center	(800) 424-8802

Table 1.2-1 Provides the spill notification sequence
Table 1.2-2 Summarizes spill notification requirements
Figure 1.2-1, 1.2-2 & 1.2-3 Are spill report forms for Tesoro, NRC and ADEC
Table 1.2-3 Includes all Tesoro notification numbers

Table 1.2-1

SPILL REPORTING SEQUENCE

REPORT SPILL TO:
TANK FARM SUPERVISOR

TESORO REFINERY
QUALIFIED INDIVIDUALS
(Make contact with one of the Q.I.s listed below)

ROLF MANZEK (Primary)
WORK 776-8191, (b) (6) 4, or **CELL** 398-8543

VERN MILLER (Alternate)
WORK 776-8191, (b) (6) , or **CELL** 398-8006

JACK JENSEN (Alternate)
WORK 776-3554, (b) (6) , or **CELL** 252-4748

SCOTT ROSIN (Alternate)
WORK 776-3501, (b) (6) , or **CELL** 398-8715

PETER RIBBENS (Alternate)
WORK 776-3595 (b) (6) , **CELL** 398-1828

TESORO PIPELINE & NIKISKI TERMINAL
QUALIFIED INDIVIDUALS
(Make contact with one of the Q.I.s listed below)

SHAWN BROWN (Primary)
WORK 776-8191, (b) (6) , or **CELL** 398-6019

TOM ANGLETON (Alternate)
WORK 776-3849, (b) (6) , or **CELL** 394-8746

SCOTT ROSIN (Alternate)
WORK 776-3501, (b) (6) , or **CELL** 398-8715

DAVID ZUKER (Alternate-Pipeline Only)
WORK 261-7203, (b) (6) , **CELL** 244-6522

PETER RIBBENS (Alternate)
WORK 776-3595 (b) (6) **CELL** 398-1828

TESORO RESPONSE TEAM

CISPRI
(907) 776-5129

AND
TESORO INCIDENT MANAGEMENT TEAM
(VIA SEND-WORD NOW THROUGH SECURITY)

NATIONAL RESPONSE CENTER
(800) 424-8802 (24 hr)

U.S. COAST GUARD
(907) 271-6700 (24 hr)

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
(800) 478-9300 (24 hr)

STATE PIPELINE COORDINATOR'S OFFICE (SPCO)
(TESORO ALASKA PIPELINE ONLY)
(907) 269-6403 (24 hr)

Table 1.2-2

AGENCY REPORTING REQUIREMENTS FOR OIL SPILLS

Agency	Spill Size	Verbal Report	Written Report
EPA	Any size on land if threatening surface waters	Immediately	If spill is 100 gal or more, or if it is the second spill on water within 12 months
USCG	Any size in or threatening Navigable waters	Immediately for Coastal Waters	Not required, but requested
US DOT	Any size from a regulated pipeline	Immediately	Required within 30 days on DOT Form 7000-1
ADEC	**TO WATER:** Any discharge of oil to water	Immediately	Within 15 days of clean-up
	TO LAND: Greater than 55 gal solely to land outside of secondary containment	Immediately	Within 15 days of clean-up
	Greater than 10 gal but less than 55 gal solely to land	Within 48 hrs	Within 15 days of clean-up
	1 to 10 gal solely to land (including cumulative discharges)	None	Summarize monthly
	Greater than 55 gal into secondary containment area	Immediately	Summarize monthly
SPCO	Any discharge which relates to the right-of-way to the Tesoro Alaska Pipeline, including any discharge from other sources which occur on the pipeline Right-of-way (ROW)	Immediately	Oral notice shall be confirmed in writing as soon as possible

Figure 1.2-1

OIL SPILL DISCHARGE INFORMATION REQUIRED IN A REPORT TO THE NATIONAL RESPONSE CENTER (NRC)

EMERGENCY TELEPHONE: (800) 424-8802

Note: it is not necessary to wait for all information before calling NRC.

REPORTING PARTY INFORMATION	SUSPECTED RESPONSIBLE PARTY
Name:	Name:
Telephone:	Telephone:
Company:	Company:
Position:	Position:
Address:	Address:
City:	City:
State:	State:
Zip:	Zip:

1. **Were Materials Discharged?**
2. **Are you calling for the responsible party?**

INCIDENT DESCRIPTION		
Cause of incident:		
Time Occurred:		
Incident Location:		
Latitude:	Longitude:	
River or Road Milepost:		
Nearest City:	Distance From City:	
Above Ground:	Below Ground:	Other:
Material Discharge:		

3. **What actions are being taken to contain, control, and clean-up spill?**

IMPACT OF DISCHARGE
Number of Fatalities:
Number Evacuated:
Estimated Damage (dollars): $

4. **What agencies have been notified?**
   USCG? EPA? ADEC? Other?

Figure 1.2-2

ADEC Spill Report Form

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

OIL & HAZARDOUS SUBSTANCES SPILL NOTIFICATION FORM

CLEAR FORM

ADEC USE ONLY

ADEC SPILL #:	ADEC FILE#:	ADEC LC:
PERSON REPORTING:	PHONE NUMBER:	REPORTED HOW? (ADEC USE ONLY) ☐ Phone ☐ Fax ☐ Troopers
DATE/TIME OF SPILL:	DATE/TIME DISCOVERED:	DATE/TIME REPORTED:
INCIDENT LOCATION/ADDRESS:	DATUM: ☐ NAD27 ☐ NAD83 ☐ WGS84 ☐ other _____ LAT. LONG.	PRODUCT SPILLED:

QUALITY SPILLED: ☐ gallons ☐ pounds	QUANTITY CONTAINED: ☐ gallons ☐ pounds	QUANTITY RECOVERED: ☐ gallons ☐ pounds	QUANTITY DISPOSED ☐ gallons ☐ pounds

	POTENTIAL RESPONSIBLE PARTY:	OTHER PRP, IF ANY:	vessel name:
Name/Business:			
Mailing Address:			vessel number:
Contact Name:			> 400 gross ton vessel
Contact Number:			☐ Yes ☐ No

SOURCE OF SPILL:	CAUSE CLASSIFICATION: ☐ Accident ☐ Human Factors ☐ Structural/Mechanical ☐ Other
CAUSE OF SPILL: ☐ Under Investigation	
CLEANUP ACTIONS:	
DISPOSAL METHODS AND LOCATIONS:	

AFFECTED AREA SIZE:	SURFACE TYPE: *(gravel, asphalt, name of river, etc.)*	RESOURCES AFFECTED/THREATENED: *(water sources, wildlife, wells, etc.)*
COMMENTS:		

ADEC USE ONLY

SPILL NAME:	NAME OF DEC STAFF RESPONDING:	C-PLAN MGR NOTIFIED? ☐ Yes ☐ No
DEC RESPONSE: ☐ Phone follow-up ☐ Field visit ☐ Took Report	CASELOAD CODE: ☐ First and Final ☐ Open/No LC ☐ LC Assigned	CLEANUP CLOSURE ACTION: ☐ NFA ☐ Monitoring ☐ Transferred to CS or STP
COMMENTS:	**Status of Case: ☐ Open ☐ Closed Date Case Closed:**	
REPORT PREPARED BY:	DATE:	

Table 1.2-3

Notification Summary

MANDATORY NOTIFICATIONS			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
National response center (NRC)	(800) 424-8802		
USCG – Sector Anchorage **USCG – Homer MSD**	(907) 271-6700 (907) 235-3292 (907) 690-2098 after-hrs		
Alaska DEC, 24 hr **ADEC, Soldotna Office** **ADEC, Central AK Response Team**	(800) 478-9300 (907) 262-5210 (907) 269-3063		
Alaska SPCO, 24 hr *(pipeline only)*	(907) 269-6403		

QUALIFIED INDIVIDUALS TESORO REFINING & MARKETING COMPANY LLC REFINERY			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Rolf Manzek **Operations Superintendent** **Primary Qualified Individual**	(907) 776-8191 Work (b) (6) (907) 398-8543 Cell		
Vern Miller **Manager, Technical Services** **Alternate Qualified Individual**	(907) 776-8191 Work (b) (6) (907) 398-8006 Cell		
Jack Jensen **Alaska Marine Superintendent** **Alternate Qualified Individual**	(907) 776-3554 Work (b) (6) (907) 252-4748 Cell		
Scott Rosin **Manager, EHS** **Alternate Qualified Individual**	(907) 776-3501 Work (b) (6) (907) 398-8715 Cell		

QUALIFIED INDIVIDUALS NIKISKI TERMINAL / TESORO ALASKA PIPELINE			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Shawn Brown **Manager Pipeline & Terminals** **Primary Qualified Individual**	(907) 776-8191 Work (b) (6) (907) 398-6019 Cell		
Tom Angleton **Oils Movement Superintendent** **Alternate Qualified Individual**	(907) 776-3849 Work (b) (6) (907) 394-3849 Cell		
Scott Rosin **Manager, EHS** **Alternate Qualified Individual**	(907) 776-3501 Work (b) (6) (907) 398-8715 Cell		
David Zuker (Tesoro Pipeline Only) **Manager, Anchorage Pipeline** **Alternate Qualified Individual**	(907) 277-2713 work (b) (6) (907) 244-6522 cell		

TESORO MANAGEMENT			
Manager, Environmental Health & Safety Scott Rosin	907-776-3501 work 907-398-8715 cell		
Refinery, Vice-President James Tangaro	907-776-3833 work 801-560-4377 cell		
Refinery Manager, Operations Rolf Manzek	907-776-3522 work 907-398-8543 cell		
Manager, Pipeline and Terminals Shawn Brown	907-776-3520 work 907-398-6019 cell		
Tesoro Safety Coordinator John Averill	907-776-3562 work 097-953-1822 cell		
Tesoro Manager Oil Spill Planning Response Peter Ribbens	907-776-3595 work 907-398-1828 cell		

FEDERAL AGENCIES			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
USCG Sector Anchorage USCG MSD, Homer USCG MSC, Kodiak USCG MSU, Valdez	(907) 271-6700 (907) 235-3292 (907) 486-5918 (907) 835-7205		
Environmental Protection Agency, Anchorage	(907) 271-5083 (8-5)		
National Ocean and Atmospheric Administration (NOAA)	(206) 526-4911 Seattle (907) 271-3593		
Federal Bureau of Investigation Anchorage.	(907) 258-5322		
U.S. Fish & Wildlife	(907) 786-3542		
U.S. Forest Service	(907) 743-9500		
U.S. Dept. of Interior	(907) 271-5011 (907) 227-3783 (907) 227-3781		
National Park Service	(907) 644-3510		
Dept. of Transportation – Pipeline Office	(907) 271-6517		
National Weather Service, Anchorage	(907) 266-5105 (M-F, 7-5)		
National WX Service (WX Forecast)	(907) 936-2525		
National WX Service (Marine WX)	(907) 936-2727		
Federal Aviation Administration	(907) 271-5936 24 hrs.		

STATE AGENCIES			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Alaska ADEC, Kenai Office	(907) 262-5210		
Alaska ADEC, Anchorage District	(907) 269-3063		
Alaska ADEC, Valdez Office	(907) 835-4698		
Alaska Dept. Natural Resources	(907) 269-8400 or 8503		
Alaska Dept. Fish & Game, Juneau ADF&G Habitat & Restoration, ANC	(907) 465-4100 (907) 267-2342		
ADNR, Division of Forestry, ANC	(907) 269-8463		

ADNR, Office of History & Archaeology	907-269-8721		
Alaska SPCO, 24 hr *(pipeline only)*	(907) 269-6403		

LOCAL AGENCIES			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Kenai Peninsula Borough Office of Emergency Management	(907) 262-4910		
Municipality of Anchorage Office of Emergency Management	(907) 343-1401 (907) 343-4701		
Alaska State Troopers, Soldotna	(907) 262-4453		
Police and Fire Departments	911		
Cook Inlet Regional Citizens Advisory Council	(907) 283-7222		
Prince William Sound Regional Citizens Advisory Council	(907) 834-5000 Valdez (907) 277-7222 Anchorage		
Kenai National Wildlife Refuge	(907) 262-7021		
Local Emergency Planning Committee	(907) 262-4910		
Alaska Division of Homeland Security & Emergency Management	(907) 428-7000		

RESPONSE CONTRACTORS			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
CISPRI	(907) 776-5129		
SERVS (P.W.S.)	(907) 834-6901		
Alaska Clean Seas	(907) 659-2405		
MSRC	(800) 645-7745		
CHADUX	907-348-2365		

UTILITIES			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Homer Electric	**(800) 478-8551**		
Enstar Gas	**(907) 262-9334**		
Anchorage Water & Wastewater Utility	**(907) 564-2762**		

MEDICAL			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Emergency First Aid	**911**		
Central Peninsula General Hospital, Soldotna	**(907) 714-4404**		
Alaska Regional Hospital, Anchorage	**(907) 276-1131**		
Providence Hospital, Anchorage	**(907) 562-2211**		
Air Ambulance (Life Med)	**(907) 212-3070**		

MARINAS/PORTS			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
OSK Dock	**(907) 776-5551**		
Kenai City Dock	**(907) 283-9538 summer** **(907) 283-8236 winter**		
Homer Harbor Master	**(907) 235-3160**		

LOCAL ACCOMMODATIONS			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Uptown Motel *Kenai*	**(907) 283-3660**		
Quality Inn *Kenai*	**(907) 283-6060**		
Aspen Suites Hotel *Kenai*	**(907) 235-2500**		
Kenai Airport Hotel *Kenai*	**(907) 283-2272**		
Aspen Hotel *Soldotna*	**(907) 260-7736**		
Land's Inn *Homer*	**(907) 283-1577**		

TESORO'S NEIGHBORING FACILITIES			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Conoco-Phillips	**(907) 776-8166** **(907) 776-2039 after-hrs**		
Arctic Slope Regional Corp. (ASRC)	**(907) 776-8441**		

OSG SHIP MANAGEMENT, INC.			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
OSG Ship Management Inc. (24 hr)	**(813) 221-8758**		
Tom Garrett, Primary Q.I. , (24 hr)	**(813) 209-0608** **(610) 7602-1795** **(646) 703-1613**		
O'Briens Oil Pollution Service **1st Alternate Q.I. (24 hr)**	**(985) 781-0804**		
Greg Doyle, 2nd Alt. Q.I.	**(813) 209-0635** **(732) 232-9021**		
Jack Robinson	**(813) 326-4512**		
Rob Lorigon	**(813) 209-0647** **(347) 566-5764**		
ABS Rapid Response (24 hr)	**(281) 872-6161**		

MEDIA			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
NEWSPAPERS			
Peninsula Clarion *Kenai*	**(907) 283-7551**		
Homer News *Homer*	**(907) 235-7767**		
Homer Tribune *Homer*	**(907) 235-3714**		
Anchorage Daily News	**(907) 257-4305**		
Kodiak Daily Mirror *Kodiak*	**(907) 486-3227**		
Associated Press	**(212) 621-1650**		

RADIO STATIONS			
KBBI *Homer*	**(907) 235-7721**		
KMXT (Public Radio) *Kodiak*	**(907) 486-3181**		
KSRM *Kenai*	**(907) 283-8700**		
KBYR *Anchorage*	**(907) 278-5216**		
KFQD *Anchorage*	**(907) 275-2277**		
KENI *Anchorage*	**(907) 743-5146**		
Alaska Public Radio Network	**(907) 550-8400**		
TELEVISION STATIONS			
KTUU – NBC – Channel 2 Anchorage	**(907) 762-9202**		
KIMO – ABC – Channel 13 Anchorage	**(907) 561-1313**		
KTVA – CBS – Channel 11 Anchorage	**(907) 273-3192**		

Table 1.2-4

ANCHORAGE PHONE NUMBERS

ANCHORAGE EMERGENCY NUMBERS			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Emergency	**911**		
Fire (Station 1)	**(907) 267-5001**		
Police Dispatch	**(907) 786-8900** **(907) 786-8500**		
State of Alaska Fire Marshall	**(907) 269-5491**		
Anchorage Municipal Light & Power	**(907) 279-7671**		
Alaska Railroad	**(907) 265-2504**		
Anchorage Water & Wastewater **Weekends & Evenings**	**(907) 564-2700** **(907) 564-2762**		
Fort Richardson Fire Department/ **Elemendorf Fire Department**	**(907) 552-2801** **(907) 552-4644**		
ANCHORAGE TESORO'S NEIGHBORING FACILITIES			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Tesoro Terminal # 1	**(907) 277-5015**		
Tesoro Terminal # 2	**(907) 261-7299** **(907) 261-7205** **(907) 261-7203**		
Tesoro Alaska Pipeline Office	**(907) 277-2713**		
Flint Hills	**(907) 257-3123**		
Crowley	**(907)777-5505**		
ASIG	**(907) 243-4322**		
Horizon Lines	**(907) 274-2671**		
Alaska Railroad	**(907) 265-2504**		
Port Of Anchorage	**(907) 343-6200**		
Totem Ocean Trailer Express (TOTE)	**(907) 276-5868**		
Turnagain Elementary School	**(907) 742-7200**		

(Pipeline)			
ANCHORAGE HOSPITALS			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Alaska Regional Hospital	**(907) 276-1131**		
Providence Hospital	**(907) 562-2211**		
Air Ambulance (Life Med)	**(907) 261-3070**		
ANCHORAGE LOCAL ACCOMODATIONS			
AFFILIATION	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Comfort Inn *Ship Creek*	**(907) 277-6887**		
Clarion Suites Downtown	**(907) 222-5005**		
Holiday Inn Express	**(907) 248-8848**		
Days Inn	**(907) 276-7226**		

Table 1.2-5

TESORO IMMEDIATE RESPONSE TEAM KENAI REFINERY SPILL RESPONSE TEAM			
NAME	**PHONE NUMBER**	**NAME OF PERSON CONTACTED**	**TIME CONTACTED**
Keith Gerke	(907) 398-8013		
Charlie Christofferson	(907) 398-3925		
Mykle Ables	(907) 398-8012		
Rich Malston	(907) 398-8712		
Mark Knudson	(907) 398-0680		
Ryan Broussard	(907) 398-4724		
Dale Jorgenson	(907) 398-8711		
Bob Shassetz	(907) 398-8716		
Jack Roff	(907) 398-8714		
Jerry Warrick	(907) 398-2072		
Joshua Biamonte	(907) 398-3572		
Ryan Harvey	(907) 398-4983		
Sean O'Reilly (Safety Technician)	(907) 398-8231		
Craig Hyder	(907) 776-3572		
Jesse Updike	(907) 776-3519		

Table 1.2-6

TESORO INCIDENT MANAGEMENT TEAM TESORO COMMAND		
Name	ICS ASSIGNMENT	CONTACT
James Tangaro	Responsible Party Incident Commander (RPIC)	776-3833
Amanda Stigall	RPIC Staff Assistant	776-4220
Dennis Gifford	Deputy Incident Commander	398-9215
Rolf Manzek	Deputy Incident Commander (2)	398-8543
Dina Pizzuto	Deputy IC Staff Assistant	398-2774
Shawn Brown	ICS Team Facilitator	398-6019
COMMAND STAFF		

TESORO INCIDENT MANAGEMENT TEAM		
John Averill	Safety Officer	776-3562
Cheryl Hamann	Safety Deputy	776-3575
Charles Magee	Legal Officer	206-321-2111
Dan Riley	Liaison Officer	210-626-4860
Matt Gill	Liaison deputy	261-7221
Alan Casperson	Public Information Officer	953-9093
Mary Pennington	Public Information Staff	748-1757
PLANNING SECTION		
Jim Grossl	Planning Section Chief	398-9062
Dennis Gifford	Planning Section Chief	398-9215
Rob Ross	Resource Unit Leader	398-1567
KelLy Reichert	Resource Unit Leader (2)	690-3322
Eric Massey	Resource Unit	398-1283
Jeremy Rae	Resource Unit	252-7108
Rich Silver	Resource Unit	398-9216
Lorrie Jones	Resource Unit (Requisitions)	776-3546
Jenifer Lockwood	Resource Unit (Requisitions	776-3577
Bruce Jackman	Situation Unit Leader	398-3567
Lance Necessary	Situation Unit	398-9059
Bonnie Cavanaugh	Documentation Unit Leader	776-3879
Loretta Brown	Document Unit (2)	776-3877
Scott Rosin	Environmental Unit Leader	398-8715
Michelle Lee	Environmental Unit (Permits)	398-1826
Marc Johnson	Environmental Unit (Permits)	398-8674
Melissa Crezee	Environmental Unit (Permits)	398-1827
Jerry Warrick	Environmental Unit (Waste Management)	398-2072
OPERATIONS		
Kevin Johnson	Operations Section Chief	398-3566
Vern Miller	Operations Section Chief Alt.	398-8006
Jack Jensen	Operations Branch Director	252-4748
Dave Zuker	Operations Branch Director	244-6522
Jackie McGahan	Operations Branch Director	398-6020
Shannon Woodford	Operations Staff Assistant	398-3599
Shannon Bird	Operations Staff Assistant	776-4219
LOGISTICS		
Jason Carroll	Logistics Section Chief	690-2067
Jan Feller	Logistics Staff Assistant	776-3835
Allen Meyers	Logistics (Supplies Unit)	398-3118
Joe Gabriel	Logistics (Supplies Unit)	252-6032
Joe Hughey	Logistics (Procurement Unit)	398-4060
Craig Hansen	Logistics (Facilities Unit – Personnel)	252-9095
Ken Gibson	Logistics (Facilities Unit)	398-3874
Paul Alkire	Logistics (Ground Support Unit)	398-3567
Ted Johnson	Logistics (Food Unit)	398-8710
Todd Brigham	Logistics (Extra)	398-8264
Brian Rohn	Logistics (Extra)	776-3511
Jimmy Hall	Logistics (Communication Unit)	398-3855
Mark Knudsen	Logistics (Communications Unit – Radio Dispatch)	398-0680
Dan Hammond	Logistics (Air Operations Leader)	398-3565

TESORO INCIDENT MANAGEMENT TEAM		
Trent O'Reagan	Logistics (Information Technology Unit)	252-1451
Jeff Kohler	Logistics (Security Unit)	252-1601
Susan Holit	Logistics (Medical Unit)	953-2228
FINANCE		
Aleja DeVito	Finance Section Chief	252-7420
Debbie Jameson	Finance (Time/Cost Unit)	776-3591
Dana Harvey	Finance (Insurance/Claims Unit)	210-626-4409

Note: Tesoro reserves the option to move or replace ICS Team Members to various positions as needed.

Note: All Tesoro Crisis Management Team Members can be activated with a single call-out using the ***Send-Word-Now*** program. Cellular, home and office phones are all called simultaneously. The ***Send-Word-Now*** program can be activated through Tesoro main Gate Security (869).

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1.3 SAFETY

1.3.1 INITIAL RESPONSE

SAFETY IS THE PRIMARY CONSIDERATION IN THE INITIAL RESPONSE TO AN OIL SPILL. NO SPILL RESPONSE ACTIVITIES SHOULD BE CONDUCTED UNTIL IT IS SAFE!

The Tesoro Safety Officer will be responsible for the preparation of the Safety Plan and will be responsible for direction of all safety activities during a Tesoro spill response. The Tesoro Safety Officer will direct teams of trained operators equipped with self-contained airpacks or organic vapor respirators (dependant on air monitoring results.), and explosion meters to determine and mark the area of any hazardous atmosphere coming from the spill so that safe limits for response activities can be determined.

Hazards associated with oil spills include fires, explosions, and exposure to toxic chemicals at lethal or sub-lethal levels. **The initial priority during an oil spill is to protect the health and safety of affected and response personnel. The first person to discover a spill of potentially toxic, flammable or explosive material should immediately leave the area and then report the spill.**

It is critical to immediately assess the fire and explosion hazard associated with any spill. Crude oil and many other products carried by vessels, stored at the refinery, or transported in the pipeline are flammable and can be explosive. **The person discovering the spill must report the size of the spill and the type of material spilled to the vessel master or area supervisor immediately.** The vessel master or area supervisors will take initial actions to ensure personnel safety by evacuation to an appropriate area or other necessary measures.

It is important to assess air borne concentrations of toxic chemicals to ensure responders wear appropriate respirators and personal protective equipment. Examples of toxic gases and vapors found in crude oil includes, but not limited to, hydrogen sulfide (H_2S) gas, benzene, and sulfur dioxide (SO_2).

- Hydrogen sulfide (H_2S) gas may be present since it may be contained in some crude oils. H_2S is heavier than air, flammable, and extremely toxic. **Evacuate the area immediately by moving upwind of the H_2S source in the event of a release or potential release of hydrogen sulfide gas.** H_2S can be detected by its rotten egg like odor but in high concentrations, it can deaden your since of smell. H_2S detectors, not sense of smell, must be relied upon to determine if personnel are evacuated to a safe area. Immediately notify the area supervisor of the situation after evacuation occurs. 8 hour exposure limit is 10 ppm.
- Benzene can be detected with direct reading instruments, for example, colormetric tubes, CMS Draeger device, Ultra Rae, and a portable GC. Benzene has a sweet hydrocarbon odor and prolonged exposure can cause cancer. 8 hour exposure limit is discussed in Table 1.3-1.

In addition to assessing the dangers of explosion and fire, the Tesoro Safety Officer must ensure the protection of worker health and safety. This protection is achieved by assessing and establishing exposure control zones to which only appropriately trained and equipped personnel may enter.

The criteria for establishing safety zones and respiratory protection requirements differ according to materials and are set by the Alaska Occupational Safety and Health (AKOSH) as follows:

Gasoline — 8 hour exposure limit of 300 ppm (200 ppm for a 12 hour shift) with a 15 minute short term exposure limit of 500 ppm. However, gasoline has a significant proportion of Benzene which is separately regulated as documented in Table 1.3-1.

Crude Oil — No established exposure limit, but it does contain Benzene (see Table 1.3-1). At a minimum, safety glasses should be worn. If a splash hazard to the eyes is present, chemical goggles or a face shield should be used. Eye protection is not required if a full face respirator is worn.

Diesel — No AKOSH limits for Diesel, although for spill response AKOSH limits for petroleum distillates may be used. These are 500 ppm for 8 hrs or 333 ppm for 12 hrs.

The following personal protective equipment is recommended for protecting skin:

- Hands; PVC or Nitrile gloves
- Feet; PVC boots
- Body; Tyveck or Saranex coveralls

Local police, fire brigade (if spill is at refinery or, Nikiski terminal) and fire departments will be notified of all major spills and their onsite assistance requested to ensure personnel health and safety.

An incident-specific safety plan will be prepared by the Tesoro Safety Officer.

Material Safety Data Sheets (MSDS's) are available on the Refineries "PRISM' network. Hard copies of Material Safety Data Sheets are available from the Tesoro Safety department.

The following government safety standards will be addressed in the development of the Incident-Specific Health & Safety Plan:

- 29 CFR Part 1910, Occupational Health & Safety Standards
- 29 CFR Part 1904, Record keeping & Reporting Occupational Illnesses
- 29 CFR Part 1910.120, Hazardous Waste Operations and Emergency Response
- 29 CFR Part 1910.132-37 Subpart 1, Personal Protective Equipment
- 29 CFR Part 1920.38, Employee Emergency Action Plans & Fire Prevention
- 29 CFR Part 1910.1200, Hazard Communication Standards
- State of Alaska Safety & Health Regulations (Subchapters, 1,4,5,8,10, and 15)

Additional detailed information specific to oil spill response health and safety procedures is available in the CISPRI Technical Manual (CI-S). A sample Health and Safety Plan is located in the ADEC "Permits Program" and Appendix C of the CISPRI Technical Manuals.

Table 1.3-1

ESTABLISHED EXPOSURE LIMITS FOR BENZENE

AIRBORNE CONCENTRATION OF BENZENE OR CONDITION OF USE	RESPIRATOR TYPE
1 ppm to 10 ppm[1]	Half-mask, air purifying respirator with organic vapor cartridges[2].
Greater than 10 ppm, but less than or equal to 50 ppm	Full face respirator with organic vapor cartridges, or full face gas mask with chin-style canister.
Greater than 50 ppm, but less than or equal to 100 ppm	Full face powered air-purifying respirator with organic vapor canister.
100 ppm or greater	Supplied-air respirator with full face mask in positive pressure mode.
10,000 ppm or greater	Self-contained breathing apparatus with full face mask in positive pressure mode, or full face mask, positive pressure, supplied-air respirator with auxiliary self-contained air supply.

Notes: [1]Denotes parts per million (ppm)

[2]Change cartridges at least once each shift

[3]Tesoro policy is to use Self-contained breathing apparatus with full face mask in positive pressure mode or full face mask, positive pressure, supplied-air respirator with auxiliary self-contained air supply for concentrations greater than 50 ppm.

1.3.2 FACILITY EVACUATION PLAN FOR TOTAL EVACUATION

In the event of an evacuation, the following must take place:

Process Unit Evacuation: The Affected Control Room Boardman Shall:

- Active the Whelen Alarm System throughout the facility.
- Broadcast the specific instruction on the Refinery loudspeaker system.

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

Total Facility Wide Evacuations: The Affected Control Room Boardman Shall:

- Notify the police and fire department by dialing 911 and advise the 911 dispatcher if a community evacuation is required, and request made to activate the community evacuation plan.
- All process units will be shut down as quickly as possible should the decision be made to totally evacuate the refinery.
- Emergency shutdown as quickly as possible should the decision be made to totally evacuate the refinery.
- The Shift Supervisors or their designees are authorized to act as quickly as possible to minimize the risk to all personnel. Figure 1.3-1 shows the Kenai Refinery evacuation route map. Figure 1.3-2 shows the Nikiski Terminal evacuation route map.
- Tesoro employees will rely on the police and fire departments to determine evacuation limits beyond Tesoro property and to make necessary public and private notifications.
- Tesoro employees will take any reasonable efforts as dictated by the situation and safety constraints to block traffic and notify adjacent facility managers who may have people located near the hazardous situation.

** CAUTION **

Evacuate only after you are sure where the emergency is located and which evacuation route is safe based upon the current wind conditions. Go directly to your designated area. Avoid any areas involved with the emergency.

This plan has been prepared to address the procedures needed in the event of an emergency situation or release within the confines of the Tesoro Kenai Refinery and Nikiski Terminal. The exact location of the emergency or release and corresponding wind conditions at the time of the release may require modification of this Evacuation Plan to implement it safely. If this should occur, evacuation instructions will be broadcast over the refinery radio and loudspeaker system.

Figure 1.3-1

KENAI REFINERY EVACUATION ROUTES

(b) (7)(F)

[redacted]

DWG. NO. | REFERENCE DRAWINGS | MK | ZONE | DATE | REVISIONS | CH. | ENGR. APVL. | PROJ. APVL. | MK | ZONE | DATE | REVISIONS | CH. | ENGR. APVL. | PROJ. APVL.

THIS DRAWING IS THE PROPERTY OF

APPROVED FOR CONSTRUCTION WHEN SIGNED BELOW

PROJECT MANAGER

DATE

TESORO ALASKA COMPANY
P.O.BOX 3369
KENAI, ALASKA 99611

TESORO

DR.	DATE	ENG. APVL.	DATE
CHK.	DATE	PROJ. APVL.	DATE
ENGRG. APVL.	DATE	CHENGR/SECT.CH. APVL.	DATE

CONTINGENCY PLAN
ESCAPE ROUTES

SCALE	CONT.NO.	DWG.NO.	REV.

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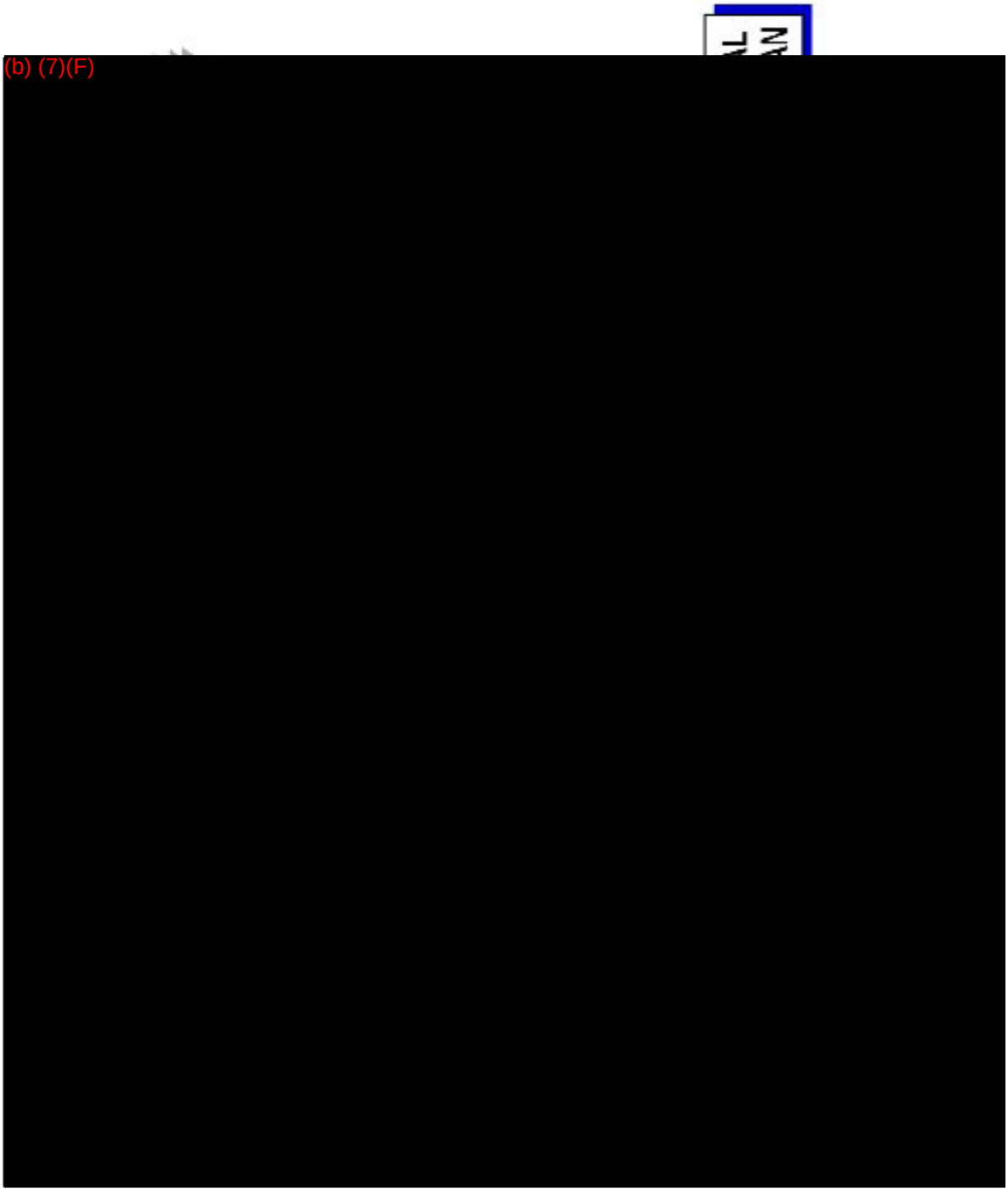
Figure 1.3-2

NIKISKI TERMINAL EVACUATION ROUTES



1.3.3 ALASKA STATE TROOPERS RESPONSE

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

1.3.4 CHARACTERIZATION OF A RESPONSE SITE

Control boundaries must be established for any spill site to ensure that workers and the public are not exposed to the spilled substance. Three distinct zones should be established by the Site Safety Officer around the spill site:

- **Hot Zone or Exclusion Zone** — control zone perimeter established by the Safety Officer where site safety assessment and site entry criteria have been applied.
- **Warm Zone or Contamination Reduction Zone** — allows for an orderly transition from the Hot Zone to the cold zone: workers shed contaminated clothing, equipment and personnel are decontaminated.
- **Cold Zone or Support Zone** — free of contamination the Cold Zone allows for support facilities, staging area, warm-up trailer, bathroom facilities, and mobile command post to provide immediate resources and services for the spill response.

A trained person using properly calibrated equipment must conduct air monitoring prior to and periodically during response operations, and as necessary when conditions change.

- If permissible entry conditions change outside of allowable criteria during entry, the entry must be terminated.
- The team conducting the site assessment should enter the site from an upwind or cross-wind aspect and progress slowly. After the airborne oxygen, flammability, and toxicity have been determined, the team should assess the site's chemical and physical hazards so that proper decisions can be made regarding PPE and other safety and health issues.
- Respiratory protection should be utilized for the initial atmospheric monitoring of the spill site.

DEPLOYMENT CONSIDERATIONS AND LIMITATIONS

The following guidance should be considered when establishing site layout and control:

- The Hot Zone should be as small as possible to prevent the spread of contamination, but large enough to accommodate emerging conditions, such as migration of the spilled product or changes in the direction of the wind.
- The Hot Zone should provide for parking/storage of contaminated equipment in order to minimize decontamination until the work is completed.
- To the extent possible, warm zone facilities should be located up-wind and up-hill from the Hot Zone.
- Security should be established around the Hot and Warm Zones to protect the public health and safety.
- Check-in/check-out procedures should be established for all personnel and equipment entering the Hot Zone.
- If the PPE for the site is designated as Level A or B, the "buddy system" should be used to account for all personnel in the Hot Zone.
- For on-water operations, the Warm Zone may be on the deck of a support vessel, with the Hot Zone on one side of the vessel and the Cold Zone on the opposite side.

1.3.5 SITE SECURITY

(b) (7)(F)

[redacted]

1.3.6 PERSONAL PROTECTIVE EQUIPMENT

The use of spill personal protective equipment will be reviewed with employees at least annually during Tesoro response training seminars. Employees will have a basic understanding of the use of this gear and techniques that should be employed to assure proper fit.

Following an emergency, equipment that was utilized will be inspected for problems. Any deficiencies are to be reported to your direct supervisor. Any exposures resulting in injury or illness that were caused by a failure of your protective equipment must be reported to your supervisor during the incident critique. The supervisor will notify the Manager of Environmental, Health and Safety of any exposures or equipment deficiencies.

1.3.7 DECONTAMINATION

Decontamination shall take place in a designated Decontamination Zone. The zone will include a wash tub, a rinse tub and a change area. It will be used to prevent contamination of other areas and to assure that responders will be cleaned of contaminants before leaving the facility.

Decontamination must be performed in all emergencies in which protective clothing has been contaminated.

Equipment which has become contaminated at the Kenai Refinery and requires cleanup can be washed at the designated environmental cleanup slab using hot boiler feed water and appropriate cleaners.

1.3.8 EMERGENCY MEDICAL AND FIRST AID STATIONS

Tesoro has a Medical Facility at the Refinery. The facilty is manned during normal working hours by an Advance Nurse Practitioner. The full time Nurse Practitioner is the on-site Medical Provider.

A list of hospitals and medical facilities has been provided in Section 1-2 (Notifications). The Nikiski Fire Department will provide emergency first aid assistance and transportation to the hospital if it is needed.

Any personnel who have suffered effects from an exposure which occurred during an spill response must immediately notify either the Safety Coordinator or on site medical provider. A medical evaluation from a qualified medical provider will be required for all injuries.

1.3.9 POST EMERGENCY CRITIQUE

An incident investigation committee will critique the response activities relative to the emergency whenever this Response Action Plan has been activated for a drill or an actual emergency response. The team members will vary depending on how the Plan was utilized and may include members from Tesoro, USCG, ADEC, EPA or CISPRI if the response involved an oil discharge.

The committee will review how well the plan worked and attempt to identify any changes or additions that are needed to improve the Plan.

1.4 COMMUNICATIONS

1.4.1 INITIAL SPILL COMMUNICATIONS

Table 1.4-1 provides a list of radio channels and frequencies utilized at the various units of the Tesoro Refinery for daily communications. In the event of a spill in Cook Inlet the initial communications would be conducted through the two marine radio channels 10 and 16. Once an emergency situation was established, communications would switch to the safety or emergency channel (Channel 5). In the event of a major spill, communications would further be transferred to the CISPRI spill response communications program. Consult the CISPRI Technical Manual (CI-LP-2) for additional details of the CISPRI spill response communications network.

Table 1.4-1

REFINERY RADIO FREQUENCIES

CH	AREA	RECEIVER FREQUENCIES	TRANSMIT FREQUENCIES
1	Crude Unit	153.0500	153.0500
2	Hydrocracker Repeater	153.0950	159.975
3	Tank Farm Repeater	153.3950	153.355
4	Tank Farm Simplex	153.3950	153.3950
5	Safety (Emergency)	152.3150	152.3150
6	Safety Repeater	152.3150	157.5750
7	Crude Lite (2nd Channel)	160.0200	160.0200
8	Hydrocracker Utility	160.0950	160.0950
9	Nikiski Fire Department	154.1450	153.7700
10	Marine 10 (Dock Spill)	156.5000	156.5000
11	Nikiski Fire Department (TAC 1)	154.0100	154.0100
12	Maintenance Simplex	152.8850	152.8850
13	Maintenance Repeater	152.8850	158.8850
14	CISPRI Page Hill	159.5850	161.2350
15	Hydrocracker Simplex	153.0950	153.0950
16	Marine 16	156.8000	156.8000

1.4.2 MAJOR SPILL RESPONSE COMMUNICATIONS

CISPRI has established an area-wide communication system at their Nikiski headquarters which is fully described in CISPRI Technical Manual (CI-LP-2). The CISPRI system will be used for the majority of significant spills on Cook Inlet.

The Tesoro Communications Unit Leader will establish and supervise the communication center under the direction of the Logistics Section Chief. This center will be the focal point for incident communications. In the event of an oil spill at Upper Cook Inlet, the communications center will normally be at the CISPRI facility in Nikiski. Other locations may have to be considered depending on location, type, and size of the spill. CISPRI's mobile command center provides the means to establish a communications center in a remote location.

The communications center will contain the functional elements including Unit Leader, Incident Dispatch, Message Center, and Technical personnel. The following paragraphs describe the organization of the communication center and the responsibilities of each position within the communications center:

- The Communications Unit Leader prepares necessary plans for setting up and operating the communications center.

- The Incident Dispatchers receive and transmit radio and telephone messages among and between incident personnel and agencies external to the incident, and provide dispatch services at the incident level.

- The Message Center receives, records, and routes information, including administrative and tactical traffic.

- Communication Technicians install incident communications radio and telephone systems, maintain an inventory of communications equipment, distributes and recovers communications equipment, and tests and repairs communication equipment.

The Communications Center will be under the direct supervision of Tesoro response personnel. The Tesoro Communications Unit Leader will devise plans for the best use of personnel and equipment under his authority. CISPRI personnel will be integrated into the command and response sections including communications.

The Communications Unit will establish telephone and radio communications, as needed, for the various incident command sections. Telephone will be the primary mode for most administrative communications. This could include communications to and from affected agencies, contractors, vendors, and personnel. Radio communications will be primarily used for operations. This includes communications between the Operations Section Chief and the response crews under his supervision. Radio communications can also be used to handle security at the various sites; movement or spill response personnel and equipment; air operations; and emergencies.

It is anticipated that the Operations Section Chief will be in direct communications with the various elements responding to the incident (for tactical purposes), however other routine flow of radio traffic will be handled by Incident Dispatch. It is the Incident Dispatch's responsibility, along with message center personnel, to direct information to and from the Incident Command Center.

The CISPRI Command Center is telephone, facsimile, computer and internet capable. Tesoro can utilize internet e-mail communications with personnel outside the CISPRI Command Center location.

1.5 OIL SPILL STRATEGIES

1.5.1 GENERAL

Deployment for an oil spill response will include activation of Tesoro command and response personnel, activation of CISPRI personnel and equipment, and activation of Tesoro/CISPRI contractors. These actions will take place nearly simultaneously under direction of the Tesoro and CISPRI managers.

The magnitude of the spill will determine the degree of involvement of each element. In the event of a moderate or major spill at the facility, spills on water or pipeline spills, the Incident Commander will make an initial assessment and, if required, will initiate the call for mobilization/deployment for additional manpower and equipment from CISPRI and other industry operators. The following provides a general outline of deployment strategies.

1.5.2 TESORO REFINING & MARKETING COMPANY LLC

Deployment for an oil spill response will include activation of Tesoro command and response personnel, activation of CISPRI personnel and equipment, and activation of Tesoro/CISPRI contractors. These actions will take place nearly simultaneously under direction of the Tesoro and CISPRI managers.

The Tesoro Incident Commander or persons delegated by the commander will initiate the following activities:

- Activate CISPRI and direct them to proceed with deployment and initial spill response.
- Send the Tesoro Initial Assessment Team or selected team members using over flights and on-site inspections to evaluate the magnitude of the spill and determine health and safety actions which are needed.
- Delegate the Tesoro Liaison Officer to report the spill to the appropriate federal, state, borough, or other public and private officials.
- Take steps to secure and/or isolate the source
- Activate the Tesoro Incident Command Team and direct them to assemble at the CISPRI Command Center or other location as appropriate.
- Request that CISPRI alert any contractors that they would normally expect to use.
- Alert any additional contractors that Tesoro may anticipate using for spill response.
- Notify the Tesoro Anchorage office and direct appropriate Tesoro personnel to proceed to the CISPRI Command Center. (Note: The Command Center may remain at the Tesoro Refinery for certain spills, especially if they are of small volume.)
- Notify Tesoro senior management.
- Proceed to the CISPRI Command Center and assume control of the CISPRI response. Initiate the Incident Briefing as soon as practical.

1.5.3 CISPRI DEPLOYMENT

CISPRI deployment tactics and information are provided in CISPRI Technical Manual (CTM). CISPRI planning assumptions are located in CTM tactic (CI-LP-1 A & B). These tactics detail estimated mobilization times and travel speeds for various response equipment and personnel. It is Tesoro's policy that they will use all appropriate techniques for any spill response. These techniques include, but are not limited to mechanical response, in situ burning, and the application of dispersant.

1.5.4 DEPLOYMENT TO A TESORO ALASKA PIPELINE SPILL

Deployment for a major inland oil spill response may include activation of Tesoro command and response personnel, activation of CISPRI personnel and equipment, and activation of Tesoro / CISPRI contractors. These actions will take place nearly simultaneously under direction of the Tesoro and if directed, CISPRI managers.

The Tesoro Incident Commander or persons delegated by the commander will initiate the following activities:

- Shutdown pipeline secure all pumps.
- Activate responders and direct them to proceed with deployment and initial spill response.
- If spill is reported on Anchorage side of the Turnagain arm notify Tesoro pipeline office personnel to respond.
- If spill is reported on Anchorage side of the Turnagain arm notify Anchorage Fire Department.
- Send the Tesoro Initial Assessment Team or selected team members using over flights and on-site inspections to evaluate the magnitude of the spill and determine health and safety actions which are needed and which response strategies will be most effective.
- Delegate the Tesoro Liaison Officer to report the spill to the appropriate federal, state, borough, or other public and private officials.
- Notify Kenai National Wildlife Refuge (U.S. Fish and Wildlife Service) if incident is on Kenai Moose Range. Call State Troopers after hours.
- Activate the Tesoro Incident Command Team (as needed) and direct them to assemble at the CISPRI Command Center.
- Evaluate need for Field Command Post locations.
- Request that CISPRI alert any contractors that they would normally expect to use.
- Alert any additional contractors that Tesoro may anticipate using for spill response. (Excavation and Clean-up contractors).
- Complete required permits for pipeline right-of-way land access including:
  - Title 16 (Special Area Permit) (ADNR),
  - State Up-Land-Use Permits (ADNR),
  - Refuge Special Use Permit (Kenai National Wildlife Refuge).

1.5.5 RESPONSE TIMES

The Tesoro Alaska Pipeline route can be subdivided according to how the terrain might impact response options.

These subdivisions are:

- Refinery to Swanson River Crossing: Mixed upland terrain. In many areas the pipeline is immediately accessible by all weather roads. Isolated sections in this area, such as near the Bishop Creek crossing, may be reached by helicopter, 4-wheel drive vehicles, snow machines, tracked vehicles, and ATVs. (Appendix C).
- Swanson River northward to Point Possession: Marshy lowlands. Access only by 4-wheel drive vehicles, ATV's, snow machines, tracked vehicles or helicopter. Certain segments can be reached from the beach using isolated roads and 4-wheel drive trails. (Appendix C)
- Turnagain Arm Crossing (between Point Possession and the Anchorage airport): On-water response. (Appendix C)
- Anchorage Bowl: Access via adjacent all weather roads from the point it comes ashore in Anchorage until it reaches the Anchorage Terminal. Tesoro also has access to the pipeline via the airport property and the Tony Knowles coastal trail for the area adjacent to the Airport. (Appendix C)

Tesoro has a variety of vehicles that could be used for beach and 4-wheel drive road access. In summary Tesoro has the following vehicle available:

- 4-wheel drive pick-up trucks (Tesoro).
- Heavy equipment: a backhoe, front-end loader, road grader, tractor, and 1 vacuum truck. (Tesoro)
- ATVs: 4-Wheelers (3) 6-Wheelers (3) and Snow Machines (2) (CISPRI)
- Additional Heavy Equipment: Tracked Vehicles, Excavators, etc (Local Contractors)

The most difficult accessibility is in the area located between the Swanson River and Point Possession. Fortunately the terrain is fairly flat. Spilled oil will tend to pool in the spill area unless the problem occurs directly adjacent to a creek crossing. A spill at a creek crossing may quickly flow downstream into Cook Inlet. The Pipeline right-of-way is routinely traveled seasonally by set netters and local property owners.

A creek crossing spill will probably require a CISPRI beach and/or an on-water response. Color photographs are included in Appendix C that show pipeline stream crossings and the mouths of selected streams where they enter Cook Inlet. Tide, wave, and beach characteristics have created similar topography at the mouths of these creeks. Once a creek passes the bluff it swings south parallel to the beach. A wave bench is located at the end of the creek that tends to create a pool which can be boomed to contain oil and allow skimming. These pools, which may be present during all but the highest tides, provide an excellent work area for CISPRI to recover oil before it escapes into Cook Inlet.

The initial response to a remote pipeline spill will utilize helicopters, 4 wheel drive vehicles, ATV's or snow machines, to deploy responders and equipment to the site.

If a helicopter is used, detailed wind velocity, visibility, and cloud ceiling limitations summaries are provided in CTM tactic (CI-LP-1 A & B). For the Kenai area, visibility is lower than required by helicopter flight rules less than 5 percent of the time from March through October, and less than 10 percent of the time from November through February. Winds with velocity greater than 22 knots occur less than 2 percent of the time in January and February, and less than 1 percent of the time the rest of the year. Low

visibility periods at the Kenai airport rarely force closures in the Kenai area for more than a few hours. Ceiling and visibility limitations should only delay response by helicopter by a few hours, but not prevent the use of helicopters.

Should helicopters be temporarily grounded, the initial assessment and response to a pipeline spill in a remote area will use 4-wheel drive vehicles, snowmobiles, or all-terrain vehicles to follow the pipeline route to locate the spill. Similar equipment will be used to transport people and equipment to the site for response. Vehicles for the initial response to a remote pipeline spill are listed in the CISPRI inventory. In addition, Tesoro has several 4-wheel drive trucks and limited all-terrain equipment at the refinery if weather should prevent the use of helicopters.

Flat terrain will prevent the spill from spreading very quickly. Frozen ground and snow cover will be beneficial in the winter to prevent penetration of oil into the ground. In-situ burning of the diesel or gasoline on the ground in the winter should be considered when environmental conditions allow.

1.6 SPILL RESPONSE STRATEGIES

1.6.1 OIL SPILL MITIGATION PROCEDURES

The first priorities once a spill is discovered are to protect the health and safety of personnel, prevent fire or explosions, and call out spill responders. The Area Supervisor should then take whatever actions are needed to minimize the quantity of oil that will be spilled.

General procedures to minimize spill volume include:

Table 1.6-1

STORAGE TANK OVERFLOW. *The Pumper or the Tank Farm C Operator Shall…*	
•	**IMMEDIATELY SHUTDOWN THE TRANSFER PUMPS.**
•	Inform the control rooms by radio as to why the pump has been shutdown
•	Close the valves on the sending tank & receiving tank (if safety considerations permit)
•	Transfer product from the overflowing tank back to the sending tank or any other appropriate tank.

Table 1.6-2

STORAGE TANK FAILURE. ***The Pumper or the Tank Farm C Operator Shall…***	
•	**IMMEDIATELY SHUTDOWN THE TRANSFER PUMP IF PUMPING.**
•	Inform the control rooms as to why the pump has been shut down.
•	Close the valve on the sending tank to minimize the amount of oil that may flow by gravity from the sending tank to the failed tank.
•	Shutdown pumping operations and close all valves of any other tank in the area that may have pipelines that could have been damaged by the tank failure.
•	Check the oily water sewer system to assure that oil is not spilling out of any sewer location.
•	Check the API oil/water separator, Tank D, the biodisks, and the water treatment ponds to assure that oil is not overwhelming this equipment.
•	Confirm that the spill is being contained by the dikes.

Table 1.6-3

Piping Rupture or Leak Either Under Pressure or Not Under Pressure. Equipment Failure Such as a Pump, Relief Valve, Etc.. ***The Pumper or the Tank Farm C Operator Shall…***	
•	**IMMEDIATELY SHUTDOWN THE TRANSFER PUMP IF PUMPING.**
•	Inform the control rooms as to why the pump has been shut down.
•	Close the valves on both sides of the rupture or leak.
•	Apply suction to the line (if pumps and valves can be arranged to accomplish this task) to remove oil from the line.
•	Send the Tesoro vacuum trucks to the spill site to collect oil if it continues to drain from the line.

Table 1.6-4

EARTHQUAKE - Pipeline.. ***The Pumper or the Tank Farm C Operator Shall…***	
•	**IMMEDIATELY CONTACT CRUDE SHIPPING STATIONS AND REQUEST SHUTDOWN OF THE TRANSFER PUMP (IF PUMPING WAS UNDERWAY).**
•	Isolate pipeline at all mainline block valves.
•	Make visual observation of aboveground pipeline for damage.
•	If no visible damage is found, coordinate re-pressure of pipeline in a section by section method to ensure pipeline integrity.

(b) (7)(F)

[redacted]

Table 1.6-6

PIPELINE FAILURE - SWANSON RIVER ***Operators of the pipeline shall…..***	
•	**IMMEDIATELY CONTACT CRUDE SHIPPING STATIONS AND REQUEST SHUTDOWN OF THE TRANSFER PUMP (IF PUMPING WAS UNDERWAY).**
•	Isolate pipeline on both sides.
•	Make visual observation / assessment of pipeline for spill location.
•	Conduct internal / external notifications
•	Activate response teams

1.6.2 RESPONSE SCENARIOS & STRATEGIES

The attached scenarios were developed in accordance with 18 AAC 75.425(e)(1)(F) and 18 AAC 75.445(d). It describes the objectives, strategies and tactics that would be used to respond to a hypothetical oil spill at a particular time and location under assumed conditions. The actions illustrated in these scenarios may be used as a general guide for a discharge of any size.

The RPS calculations are shown in Part 5 of this plan.

These scenarios are hypothetical spill responses for planning purposes only. They illustrate what might happen under a given set of conditions. If different conditions were assumed the spill response would be different.

- Scenario One: Tesoro Refinery tank farm.
- Scenario Two: Tesoro Alaska Pipeline (Otter Creek).
- Scenario Three: Tesoro Alaska Pipeline (Turnagain Arm).
- Scenario Four: Tesoro Alaska Pipeline spill in Anchorage (at an “Area of Critical Concern” Turnagain Elementary School).

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1.6.2.1 RESPONSE SCENARIO # 1 TESORO REFINERY TANK FARM

RESPONSE TYPE:	TYPE / AMOUNT
On Land Response (CISPRI / TESORO)	(b) (7)(F)
On Land Response (CISPRI / TESORO)	

SOURCE

(b) (7)(F) . An event of unknown origin triggers the failure of Tank 25 in the Kenai Refinery tank farm. A Tank Farm Pumper is making his rounds in the Tank Farm when he notes a steady stream of oil coming out of the tankinto the secondary containment. The secondary containment (per ADEC requirement fails) and the area around Tank 25 secondary containment is also contaminated with oil. (b) (7)(F) will flow into the secondary containment area with some escaping from the secondary containment area.

Time:	0800	Wind:	10 ENE
Season:	June	Temperature:	55 Degrees
Visibility:	10 miles – Overcast	Location:	Kenai Refinery

ASSUMPTIONS:

- Safe to commence response operations.
- The cause of the spill has no impact on the size or duration of the spill event.
- Evaporation and emulsification are not considered.
- No injuries are associated with the failure of the tank.

Oil Concentration: The majority of the spilled oil is located within the Refinery Secondary Containment system. There are no nearby population centers; the Refinery is within the Nikiski industrial area. The area is fully accessible by emergency responders and the contracted oil spill response organization. The area around the tank failure inside the secondary containment has a visible concentration of oil with small fingers of oil starting to flow out of the containment dike. The tank sits within a sufficiently impermeable secondary containment system capable of holding the entire contents of the tank plus any precipitation build-up. The area around the tank is further isolated by other tank containment dikes which further restrict the flow of oil out of the area.

SUPPORTING ACTION TAKEN:

- The pumper immediately leaves the area and notifies the Refinery tank farm control room by radio. The control room was already aware of a problem through Electronic level monitoring system. Control room personnel notify the area supervisor; sound the Whelan alarm; stop all oil transfers; call the Nikiski Fire Department and request them to respond as far as the refinery gate; and notify the Tesoro Incident Commander. All pumps, equipment, and sources of ignition in the area are shutdown. An announcement is made over all refinery radio channels and the emergency loud speaker to evacuate the area of the tank farm where Tank 25 is located.
- The Tesoro Incident Commander instructs trained refinery personnel to confirm that the oil has not breached the dike. He also directs 2 members of the Initial Assessment Team to make a road survey by truck and record the spill from an adjacent tank top using a video camera. It takes approximately 1/2 hour to complete the assessment survey. The assessment reveals that the majority oil is retained within the Refinery tank 25 secondary containment area.
- Approximately 160,000 barrels has leaked through the secondary containment dike into the area immediately adjacent to Tank 25 secondary containment.
- All remaining sections of the secondary containment dike and all other tanks in the diked area appear to be stable.

Figure 1.6-1
Scenario #1
TESORO ORGANIZATION CHART

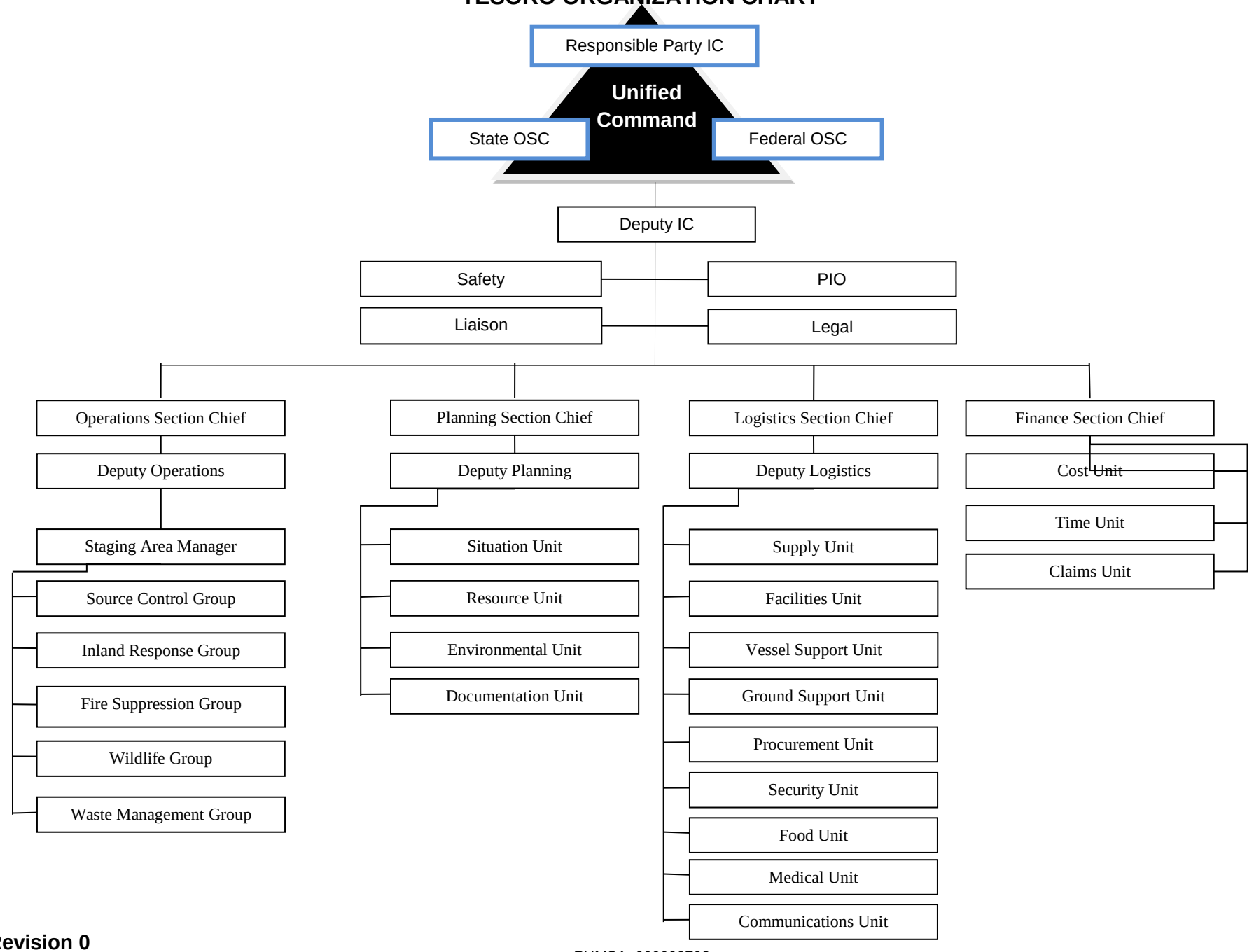

TABLE 1.6-7

RESPONSE SCENARIO #1

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY 1

OBJECTIVES	STRATEGIES
Safety	• Ensure safety of all responders • Ensure safety of public • Secure response area
Source Control	• Evaluate ability to secure leak • Identify available oil storage locations (tankage)
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Ensure effective Waste Management • Minimize spread of oil • Prepare required permitting
Protection of Sensitive Resources	• Minimize oiling of sensitive areas • Protect wildlife resources
Public Outreach	• Communicate spill response information to the public • Communicate spill response information to community leaders and stakeholder groups

TABLE 1.6-8

RESPONSE SCENARIO #1
TACTICAL OBJECTIVES – DAY 1

COMMAND & COMMAND STAFF

0930 – 1200	1200 – 1800	1800 – 0600
UNIFIED COMMAND ☐ Establish Command Post at CISPRI ☐ Establish Unified Command ☐ Develop Goals & Objectives ☐ Establish Direct Communications with (and Spill responders)	**UNIFIED COMMAND** ☐ Maintain Direct Communications with (and Spill responders) ☐ Communicate changes of direction or priorities with IMT & Responders (as appropriate)	**UNIFIED COMMAND** ☐ Review Goals & Objectives ☐ Communicate changes of direction or priorities with IMT & Responders (as appropriate) ☐ Continue to solicit input from IMT / Field
LIAISON ☐ Complete Agency Notification ☐ Establish Community notification and identify stakeholder contacts including: ☐ Local Leaders ☐ Legislature ☐ Stakeholder Groups ☐ Tesoro Management ☐ Establish CIRCAC Liaison ☐ Establish contact schedule	**LIAISON** ☐ Conduct Agency updates ☐ Continue Community & stakeholder updates ☐ Maintain contact schedule	**LIAISON** ☐ Conduct Agency updates ☐ Continue dialog with Community contacts ☐ Maintain contact schedule
PUBLIC INFORMATION ☐ Prepare initial news release ☐ Schedule & Set up Media Conference	**PUBLIC INFORMATION** ☐ Prepare UC for Media Conference ☐ Set up Community Briefing schedule ☐ Hold U.C. Media briefing	**PUBLIC INFORMATION** ☐ Set up Community Briefing ☐ Conduct Community Briefing ☐ Maintain JIC location
SAFETY ☐ Provide Initial Site Safety Plan ☐ Conduct Site Characterization ☐ Mobilize and deploy Field Site Safety ☐ Commence preparation of Site Safety Plan	**SAFETY** ☐ Continue safety monitoring ☐ Maintain contact w/ Field Site Safety	**SAFETY** ☐ Continue safety monitoring ☐ Maintain contact w/ Field Site Safety ☐ Establish HAZWOPER training (as needed)

PLANNING SECTION

0930 – 1200	1200 – 1800	1800 – 0600
PLANNING SECTION ☐ Establish the following Units ☐ DOC • RES • SIT • ENV (Unit) ☐ Establish Meeting Schedule ☐ Facilitate all Meetings ☐ Identify nighttime operations in IAP ☐ Commence preparation of IAP	**PLANNING SECTION** ☐ Maintain Meeting Schedule ☐ Continue to facilitate all meetings ☐ Identify Out of Region Needs ☐ Submit IAP for U.C. approval	**PLANNING SECTION** ☐ Maintain Meeting Schedule ☐ Facilitate all Meetings
DOCUMENTATION UNIT ☐ Establish Records procedures ☐ Prepare Incident Action Plan (IAP) ☐ Provide Duplication services ☐ Secure all original documentation	**DOCUMENTATION UNIT** ☐ Maintain all spill records and files ☐ Prepare Incident Action Plan (IAP) ☐ Provide Duplication services ☐ Secure all original documentation	**DOCUMENTATION UNIT** ☐ Continue to maintain all records and files ☐ Distribute Incident Action Plan (IAP) ☐ Continue to provide Duplication services ☐ Secure all original documentation

TABLE 1.6-8 (continued)

RESPONSE SCENARIO #1
TACTICAL OBJECTIVES – DAY 1

PLANNING SECTION

0930 – 1200	1200 – 1800	1800 – 0600
RESOURCE UNIT ☐ Develop Equipment Status T-Cards ☐ Develop Personnel Status T-Cards ☐ Prepare Requisitions ☐ Complete ORG Chart (ICS-207)	**RESOURCE UNIT** ☐ Maintain Equipment Status T-Cards ☐ Maintain Personnel Status T-Cards ☐ Prepare Requisitions ☐ Maintain ORG Chart (ICS-207)	**RESOURCE UNIT** ☐ Maintain Equipment Status T-Cards ☐ Maintain Personnel Status T-Cards ☐ Prepare Requisitions ☐ Maintain ORG Chart (ICS-207)
SITUATION UNIT ☐ Establish Display protocols ☐ Establish information protocols ☐ Post and Manage CP displays ☐ Prepare weather & any potential trajectory information	**SITUATION UNIT** ☐ Manage information protocols ☐ Continue to update & manage displays ☐ Monitor and update weather & any potential trajectory information	**SITUATION UNIT** ☐ Manage information protocols ☐ Continue to update & manage displays ☐ Monitor and update weather & any potential trajectory information
ENVIRONMENTAL UNIT ☐ Prepare applicable Permits & Applications ☐ Identify / Prioritize Sensitive Areas ☐ Prepare Waste Management Plan ☐ Initiate preparation of applicable permits	**ENVIRONMENTAL UNIT** ☐ Submit applicable Permits & Applications ☐ Submit Waste Management Plan ☐ Develop Wildlife Plan (as needed)	**ENVIRONMENTAL UNIT** ☐ Continue to review applicable Permits & Applications ☐ Implement Waste Management Plan ☐ Implement Wildlife Plan (as needed)

OPERATIONS SECTION

0930 – 1200	1200 – 1800	1800 – 0600
Mobilize / Deploy: **Land Based Response** ☐ Vac Trucks (8) ☐ SuperSucker (2) ☐ Tank Trucks (4) ☐ Baker Tanks (4) ☐ Grader (1) ☐ Excavator (1) ☐ Front End Loaders (2) ☐ Desmi 250 Pump (5) ☐ Portable Light Stands (8) ☐ Cargo hoses 75' each (8) ☐ Bobcats (Scrapping oil) (4)	**Deploy / Manage:** **Land Based Response** ☐ Vac Trucks (8) ☐ SuperSucker (2) ☐ Tank Trucks (4) ☐ Baker Tanks (4) ☐ Grader (1) ☐ Excavator (1) ☐ Front End Loaders (2) ☐ Desmi 250 Pump (5) ☐ Portable Light Stands (8) ☐ Cargo hoses 75' each (8) ☐ Bobcats (Scrapping oil) (4) ☐ Develop ICS-204 to include any night time operations.	**Manage:** **Land Based Response** ☐ Vac Trucks (8) ☐ SuperSucker (2) ☐ Tank Trucks (4) ☐ Baker Tanks (4) ☐ Grader (1) ☐ Excavator (1) ☐ Front End Loaders (2) ☐ Desmi 250 Pump (5) ☐ Portable Light Stands (8) ☐ Cargo hoses 75' each (8) ☐ Bobcats (Scrapping oil) (4) ☐ Manage select night time operations.
Supervise ☐ Land Based Recovery operations ☐ Fire/Vapor Suppression Units ☐ Spill Surveillance ☐ Waste Management ☐ Staging Area Management	**Supervise** ☐ Land Based Recovery operations ☐ Fire/Vapor Suppression Units ☐ Spill Surveillance ☐ Waste Management ☐ Staging Area Management	**Supervise** ☐ Land Based Recovery operations ☐ Fire/Vapor Suppression Units ☐ Spill Surveillance ☐ Waste Management ☐ Staging Area Management

TABLE 1.6-8 (continued)

RESPONSE SCENARIO #1

TACTICAL OBJECTIVES – DAY 1

LOGISTICS SECTION

0930 – 1200	1200 – 1800	1800 – 0600
☐ Establish Command Post	☐ Maintain IRT & CISPRI personnel	☐ Maintain IRT & CISPRI personnel
☐ Establish Staging Area	☐ Maintain contracted responders if needed	☐ Maintain contracted responders if needed
☐ Mobilize all Tesoro IRT & CISPRI	☐ Continue to maintain Meals and Services	☐ Continue to maintain Meals and Services
☐ Mobilized contracted responders if needed	☐ Expand and maintain Lodging as needed	☐ Expand and maintain Lodging as needed
☐ Provide Meals and Services	☐ Maintain communications with IBRC	☐ Maintain Communications Network and communications with responders
☐ Alert IBRC place in standby	☐ Maintain Communications Network	☐ Continue to process all requisitions
☐ Prepare Communications Plan	☐ Process all requisitions	
☐ Identify additional Firefighting Foam supplies		

FINANCE SECTION

0930 – 1200	1200 – 1800	1800 – 0600
☐ Implement system for meeting financial needs	☐ Maintain system for meeting financial needs	☐ Maintain system for meeting financial needs
☐ Initiate Cost tracking	☐ Maintain Cost tracking	☐ Maintain Cost tracking

TABLE 1.6-9

RESPONSE SCENARIO #1 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 - 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 - 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
Safety	• Conduct Initial Safety Assessment • Conduct Site Characterization • Provide periodic atmospheric monitoring throughout the day • Establish Site Control • Commence preparation of Site Safety Plan	CI-S-1 CI-S-2 CI-S-3 CI-S-4 CI-LP-6 CI-App –C	• Continue air monitoring of response area • Review and Approve Medical Plan • Submit Site Safety Plan to U.C. for approval and provide to field responders • Establish and maintain communications with Field Site Safety (FSS) personnel • Continue to re-route traffic as needed	CI-App -C CI-LP-2 Sec 1.3	• Continue air monitoring of response area • Expand/review Site Safety Plan for next operational period as needed • Continue to monitor field operations (maintain communications) • Continue to maintain traffic control as needed	CI-App -C CI-LP-2 Sec 1.3
Notification	• Completed NRC and ADEC notifications • Activate and mobilize CISPRI • Complete Agency and Stakeholder notifications • Establish and maintain local community leaders (LEPC, Police and Fire) • Establish & maintain communications with Tesoro Corporate Management • Establish liaison position for communications with CIRCAC	Sec. 1.2	• Maintain communications with Tesoro Corporate Management • Maintain Agency and Stakeholder communications • Maintain communications with local community leaders (LEPC, Police and Fire) • Maintain liaison position for communications with CIRCAC	Sec. 1.2	• Maintain communications with Tesoro Corporate Management • Maintain Agency and Stakeholder communications • Maintain communications with local community leaders (LEPC, Police and Fire) • Maintain liaison position for communications with CIRCAC	Sec. 1.2
(i) Stopping Discharge at Source & (viii) Lightering	• Secure all cargo transfer operations in the vicinity of the effected tank area until safe to resume for recovery operations • Secure any outward flow on Refinery property • Lightering – not associated with this scenario other than pumping down tank	CI-IL-1 CI-IL-2 CI-IL-9	• Discharge secured – continue to monitor • Secure any outward flow off Refinery property • Use grader to make trench along road to prevent spill from flowing offsite (as needed)	CI-IL-1 CI-IL-2 CI-IL-9	• Discharge secured – continue to monitor • Secure any outward flow off Refinery property	
(ii) Preventing or Controlling Fire Hazards	• Activate Tesoro Fire Brigade • Notify and activate Nikiski Fire Department (NFD 1 & 2) • Prepare Foam Cannons • Deploy Foam tanker on site for potential vapor and/or fire suppression	Sec 1.3	• Maintain Tesoro Fire Brigade • Maintain Nikiski Fire Department (NFD 1 & 2) assets as available • Maintain Foam Cannons in the ready • Maintain Foam tanker on site for potential vapor and/or fire suppression	Sec. 1.3	• Continue to maintain Tesoro • Continue to maintain Nikiski Fire Department (NFD 1 & 2) assets as available • Continue to maintain Foam Cannons in the ready • Continue to maintain Foam tanker on site for potential vapor and/or fire suppression	Sec. 1.3
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• On-Site Responders to report any oil movement or potential movement off of Refinery property. • Mobilize and deploy aerial surveillance (only as needed)	CI-TS-1 CI-TS-3	• Continue to have On-Site Responders report any oil movement or potential movement off of Refinery property. • Request CISPRI's hand held infrared camera	CI-TS-1 CI-TS-3	• Continue to have On-Site Responders report any oil movement or potential movement off of Refinery property. • Prepare CISPRI's hand held infrared camera for evening operations	CI-TS-2
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Logistics (Security Unit) Prepare Traffic Plan • Evaluate nearby potential downstream Sensitive Areas • Monitor and evaluate forecasted weather information	CI-SA-1	• Continue to review & prepare for Sensitive Area Protection based on spill potential • Monitor and evaluate forecasted weather information		• Monitor and evaluate forecasted weather information	

TABLE 1.6-9 (Continued)

RESPONSE SCENARIO #1 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 - 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 - 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
(vi) Spill Containment and Control Actions & (vii) Spill Recovery Procedures	• Deploy Fire/Vapor Suppression Units to affected Tank area • Mobilize and Deploy via staging area ▪ Vacuum Trucks, ▪ SuperSucker & ▪ Tanker Trucks • Mobilize and deploy heavy equipment including Front End Loaders, Graders and Bob Cats as needed. • Mobilize and trailer containment boom and position at Refinery Staging Area. • Develop team to construct temporary piping	CI-App –A CI-LP-3 CI-LP-4 CI-IL-1 CI-IL-2 CI-IL-9	• Manage Fire/Vapor Suppression Units in affected Tank area • Manage ▪ Vacuum Trucks, ▪ SuperSucker & ▪ Tanker Trucks ▪ Baker Tanks (500 bbls) • Manage heavy equipment operations including: ▪ Front End Loaders, ▪ Graders & ▪ Bob Cats • Develop team to construct temporary piping	CI-App –A CI-LP-3 CI-LP-4 CI-IL-1 CI-IL-2 CI-IL-9	• Manage Fire/Vapor Suppression Units in Tank Farm area as needed • Manage construction of temporary piping. • Manage ▪ Vacuum Trucks, ▪ SuperSucker & ▪ Tanker Trucks ▪ Baker Tanks (500 bbls) • Manage heavy equipment operations including: ▪ Front End Loaders, ▪ Graders & ▪ Bob Cats	
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Assess all potential storage needs. • Make bulk storage available at KPL or Refinery to receive and segregate recovered product. • Mobilize and set up Fast Tanks or Baker Tanks as needed to support continuous recovery operations.	CI-WM-1 CI-WM-2 CI-WM-3 CI-LP-6	• All Tank Trucks to conduct continuous transfer to Marathon LACT Unit for offload of recovered product. • Continually assess all potential storage needs. • Maintain designated tankage to receive and segregate recovered oil. • Maintain Fast Tanks or Baker Tanks as needed to support continuous recovery operations.		• All Tank Trucks to conduct continuous transfer to Marathon LACT Unit for offload of recovered product. • Continually assess all potential storage needs. • Maintain designated tankage to receive and segregate recovered oil. • Maintain Fast Tanks or Baker Tanks as needed to support continuous recovery operations.	
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• Environmental Unit develop Waste Management Plan • Establish available tankage for recovered Oil storage. • Establish locations at Refinery or KPL for temporary solid waste storage	CI-WM-1 CI-WM-2 CI-WM-3 CI-LP-6 CI-App-D	• Environmental Unit submit Waste Management Plan to U.C. for approval • Establish locations at Refinery or KPL for temporary solid waste storage • Establish decon area at spill site		• Maintain locations at Refinery or KPL for temporary solid waste storage • Maintain decon area at spill site	CI-WM-5
(xi) Wildlife Protection Plan	• Notify IBRC International Bird Rescue Center • Establish contact with resource agencies (request CP presence if needed) • Commence process for requesting permits / authorizations for wildlife hazing, capture (Environmental Unit) via U.C. (if needed) • Consult with ADF&G and USF&W.	CI-W-1 CI-W-2 CI-LP-6	• Begin receiving permit approvals • Continually assess any wildlife needs • Maintain communications with IBRC to ensure they are ready to deploy	CI-LP-5	• Comply with permit and plan approvals • Continually assess any wildlife needs • Continue to maintain communications with IBRC to ensure they are ready to deploy	
(xii) Shoreline Cleanup	• Outside of shoreline areas		• Outside of shoreline areas		• Outside of shoreline areas	

TABLE 1.6-10

RESPONSE SCENARIO #1

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY TWO

OBJECTIVES	STRATEGIES
Safety	• Ensure safety of all responders and the public • Secure response area
Source Control	• Continue to maintain fire/vapor suppression resources. • Maintain oil storage locations (tankage)
Containment, Control & Recovery of Oil	• Continue to maximize mechanical containment, control and recovery of oil • Continue to ensure effective Waste Management • Continue to minimize spread of oil • Continue to maintain and follow-up on required permitting
Protection of Sensitive Resources	• Continue to minimize oiling of sensitive areas • Continue to protect wildlife resources
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups

TABLE 1.6-11

RESPONSE SCENARIO #1

TACTICAL OBJECTIVES – DAY TWO

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT ❒ Review and approve plans, applications and permits (as appropriate)
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue U.C. Media Briefing
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot safety audits
PLANNING	PSC	❒ Maintain Command Post at CISPRI ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Validate trajectory information with aerial surveillance
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate plans as needed ❒ Continue to assess wildlife plan
OPERATIONS	OPS	❒ Continue to maintain foam fire and vapor suppression operations ❒ Continue to implement and evaluate surveillance options ❒ Manage land based recovery operations ❒ Prepare for any sensitive area protection ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area ❒ Continue to manage solid and liquid waste management locations
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Cost Tracking

TABLE 1.6-12

RESPONSE SCENARIO #1

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
Safety	• Continue site characterization and continuous air monitoring. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Continue communications with Field Site Safety (FSS) • Continue traffic control in tank area (as needed) • Conduct safety audit of ongoing operations.	• Continue site characterization and continuous air monitoring. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Continue traffic control (as needed) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured – continue to monitor potential for spill escaping containment	• Source secured – continue to monitor potential for spill escaping containment
(ii) Preventing or Controlling Fire Hazards	• Continue to maintain Tesoro Fire Brigade • Continue to maintain (NFD 1 & 2) assets as available • Continue to maintain Foam Cannons in the ready • Continue to maintain Foam tanker on site for potential vapor and/or fire suppression • Continuously monitor for changes in wind direction	• Continue to maintain Tesoro Fire Brigade • Continue to maintain (NFD 1 & 2) assets as available • Continue to maintain Foam Cannons in the ready • Continue to maintain Foam tanker on site for potential vapor and/or fire suppression • Continuously monitor for changes in wind direction
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have On-Site Responders report any oil movement or potential movement off of the Refinery property lines. • Maintain hand held infrared camera	• Continue to have On-Site Responders report any oil movement or potential movement off of the Refinery property lines. • Maintain hand held infrared camera for evening ops
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Continue to review & prepare for Sensitive Area Protection based on spill potential • Monitor and evaluate forecasted weather information	• Monitor and evaluate forecasted weather information

TABLE 1.6-12 (Continued)

RESPONSE SCENARIO #1

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Maintain Fire/Vapor Suppression Units to Refinery Tank containment area • Continue to manage: ▪ Vacuum Trucks, ▪ SuperSucker & ▪ Tanker Trucks ▪ Baker Tanks (500 bbls) • Continue to manage heavy equipment operations: ▪ Front End Loaders, ▪ Graders & ▪ Bob Cats • Construction teams continue to install temporary piping	• Maintain Fire/Vapor Suppression Units to Refinery Tank containment area • Continue to manage: ▪ . Vacuum Trucks, ▪ . SuperSucker & ▪ . Tanker Trucks ▪ . Baker Tanks (500 bbls) • Continue to manage heavy equipment operations: ▪ . Front End Loaders, ▪ . Graders & ▪ . Bob Cats • Construction teams continue to install temporary piping to available tankage
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• All Tank Trucks to conduct continuous transfer to offload of recovered product. • Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.	• All Tank Trucks to conduct continuous transfer to offload of recovered product. • Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• EUL to reassess Waste Management Plan • Maintain locations at the Refinery or KPL for temporary solid waste storage • Maintain decon area at spill site • Properly segregate waste per waste Management Plan.	• Maintain locations at the Refinery or KPL for temporary solid waste storage • Maintain decon area at spill site • Properly segregate waste per waste Management Plan.
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals • Alert day shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Continue to maintain communications with IBRC to ensure they are ready to deploy	• Comply with permit and plan approvals • Alert night shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Continue to maintain communications with IBRC to ensure they are ready to deploy
(xii) Shoreline Cleanup	• Outside of shoreline areas	• Outside of shoreline areas

TABLE 1.6-13

RESPONSE SCENARIO #1

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY THREE

OBJECTIVES	STRATEGIES
Safety	• Ensure safety of all responders and the public • Secure response area
Source Control	• Continue to maintain fire/vapor suppression resources. • Maintain oil storage locations (tankage)
Containment, Control & Recovery of Oil	• Continue to maximize mechanical containment, control and recovery of oil • Continue to ensure effective Waste Management • Continue to minimize spread of oil • Continue to maintain and follow-up on required permitting
Protection of Sensitive Resources	• Continue to minimize oiling of sensitive areas • Continue to protect wildlife resources
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups

TABLE 1.6-14

RESPONSE SCENARIO #1

TACTICAL OBJECTIVES – DAY THREE

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT ❒ Review and approve plans, applications and permits (as appropriate)
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue U.C. Media Briefing
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot safety audits
PLANNING	PSC	❒ Move Command Post to Tesoro ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Validate trajectory information with aerial surveillance
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate plans as needed ❒ Continue to assess wildlife plan
OPERATIONS	OPS	❒ Continue to maintain foam fire and vapor suppression operations as needed ❒ Continue to implement and evaluate surveillance options ❒ Manage land based recovery operations ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area ❒ Continue to manage solid and liquid waste management locations
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Cost Tracking

TABLE 1.6-15

RESPONSE SCENARIO #1

SCENARIO STRATEGY – DAY THREE

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
Safety	• Continue site characterization and continuous air monitoring (as needed). • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Continue to traffic control (as needed) • Conduct safety audit of ongoing operations.	• Continue site characterization and continuous air monitoring (as needed). • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Continue to traffic control (as needed) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured – continue to monitor potential for spill escaping containment	• Source secured – continue to monitor potential for spill escaping containment
(ii) Preventing or Controlling Fire Hazards	• Continue to maintain Tesoro Fire Brigade • Continue to maintain (NFD 1 & 2) assets as available in standby status • Continue to maintain Foam Cannons in the ready • Continue to maintain Foam tanker on site for potential vapor and/or fire suppression • Continuously monitor for changes in wind direction	• Continue to maintain Tesoro Fire Brigade • Continue to maintain (NFD 1 & 2) assets as available in standby status • Continue to maintain Foam Cannons in the ready • Continue to maintain Foam tanker on site for potential vapor and/or fire suppression • Continuously monitor for changes in wind direction
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have On-Site Responders report any oil movement or potential movement off of the Refinery property lines. • Maintain hand held infrared camera as needed	• Continue to have On-Site Responders report any oil movement or potential movement off of the Refinery property lines. • Maintain hand held infrared camera as needed
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Monitor and evaluate forecasted weather information	• Monitor and evaluate forecasted weather information

TABLE 1.6-15 (Continued)

RESPONSE SCENARIO #1

SCENARIO STRATEGY – DAY THREE

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Maintain Fire/Vapor Suppression Units to Refinery Tank containment area • Continue to manage: ▪ Vacuum Trucks, ▪ SuperSucker & ▪ Tanker Trucks ▪ Baker Tanks (500 bbls) • Continue to manage heavy equipment operations: ▪ Front End Loaders, ▪ Graders & ▪ Bob Cats • Recovery teams manage temporary piping	• Maintain Fire/Vapor Suppression Units to Refinery Tank containment area • Continue to manage: ▪ Vacuum Trucks, ▪ SuperSucker & ▪ Tanker Trucks ▪ Baker Tanks (500 bbls) • Continue to manage heavy equipment operations: ▪ Front End Loaders, ▪ Graders & ▪ Bob Cats • Recovery teams manage temporary piping
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• All Tank Trucks to conduct continuous transfer to offload of recovered product. • Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.	• All Tank Trucks to conduct continuous transfer to offload of recovered product. • Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• EUL to reassess Waste Management Plan • Maintain temporary solid waste storage locations • Establish decon area at spill site • Continue to segregate waste per Waste Management Plan.	• EUL to reassess Waste Management Plan • Maintain temporary solid waste storage locations • Maintain decon area at spill site • Continue to segregate waste per Waste Management Plan.
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals • Continually assess any wildlife needs	• Comply with permit and plan approvals • Continually assess any wildlife needs
(xii) Shoreline Cleanup	• Not Applicable for this event	• Not Applicable for this event

TABLE 1.6-16

RESPONSE SCENARIO #1

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY FOUR & BEYOND

OBJECTIVES	STRATEGIES
Safety	• Ensure safety of all responders and the public • Secure response area
Source Control	• Continue to maintain fire/vapor suppression resources. • Maintain oil storage locations (tankage)
Containment, Control & Recovery of Oil	• Continue to maximize mechanical containment, control and recovery of oil • Continue to ensure effective Waste Management • Continue to minimize spread of oil • Continue to maintain and follow-up on required permitting
Protection of Sensitive Resources	• Continue to minimize oiling of sensitive areas • Continue to protect wildlife resources
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups

TABLE 1.6-17

RESPONSE SCENARIO #1

TACTICAL OBJECTIVES – DAY FOUR & BEYOND

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT ❒ Review and approve plans, applications and permits (as appropriate) ❒ Initiate demobilization plans as needed
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue U.C. Media Briefing
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot safety audits
PLANNING	PSC	❒ Maintain Command Post at Tesoro ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Maintain weather forecasting
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate plans as needed ❒ Supervise waste disposal and management
OPERATIONS	OPS	❒ Continue to maintain foam fire and vapor suppression operations ❒ Continue to implement and evaluate surveillance options ❒ Continue to manage land based recovery operations ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area ❒ Continue to manage solid and liquid waste management locations ❒ Demobilize Nikiski Fire Department
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Cost Tracking

TABLE 1.6-18

RESPONSE SCENARIO #1

SCENARIO STRATEGY – DAY FOUR & BEYOND

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
Safety	• Continue site characterization and continuous air monitoring (as needed). • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes and demobilization • Continue communications with Field Site Safety (FSS) • Continue to maintain traffic control (as needed) • Conduct safety audit of ongoing operations.	• Continue site characterization and continuous air monitoring (as needed). • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes and demobilization • Continue communications with Field Site Safety (FSS) • Continue to re-route traffic control (as needed) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured – continue to monitor potential for spill escaping containment	• Source secured – continue to monitor potential for spill escaping containment
(ii) Preventing or Controlling Fire Hazards	• Continue to maintain Tesoro Fire Brigade in standby status • Continue to maintain Foam Cannons in the ready • Continue to monitor for changes in wind direction	• Continue to maintain Tesoro Fire Brigade • Continue to maintain Foam Cannons in the ready • Continuously monitor for changes in wind direction
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have On-Site Responders report any oil movement or potential movement off of the Refinery property lines.	• Continue to have On-Site Responders report any oil movement or potential movement off of the Refinery property lines.
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Monitor and evaluate forecasted weather information	• Monitor and evaluate forecasted weather information

TABLE 1.6-18 (Continued)

RESPONSE SCENARIO #1

SCENARIO STRATEGY – DAY FOUR & BEYOND

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Maintain Fire/Vapor Suppression Units to Refinery Tank containment area in standby status. • Continue to manage: ▪ Vacuum Trucks, ▪ SuperSucker & ▪ Tanker Trucks ▪ Baker Tanks (500 bbls) • Continue to manage heavy equipment operations: ▪ Front End Loaders, ▪ Graders & ▪ Bob Cats • Demobilize and decon equipment as needed.	• Maintain Fire/Vapor Suppression Units to Refinery Tank containment area in standby status. • Continue to manage: ▪ Vacuum Trucks, ▪ SuperSucker & ▪ Tanker Trucks ▪ Baker Tanks (500 bbls) • Continue to manage heavy equipment operations: ▪ Front End Loaders, ▪ Graders & ▪ Bob Cats • Demobilize and decon equipment as needed.
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• All Tank Trucks to conduct continuous transfer to offload of recovered product. • Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.	• All Tank Trucks to conduct continuous transfer to offload of recovered product. • Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• EUL to reassess Waste Management Plan • Maintain locations at KPL for temporary solid waste storage • Maintain decon area at spill site • Properly segregate waste per Waste Management Plan.	• EUL to reassess Waste Management Plan • Maintain locations at KPL for temporary solid waste storage • Maintain decon area at spill site • Properly segregate waste per Waste Management Plan.
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals	• Comply with permit and plan approvals
(xii) Shoreline Cleanup	• Not Applicable for this event	• Not Applicable for this event

TABLE 1.6-19

Response Scenario #1

EXPECTED TIMELINE FOR RESPONSE ACTIONS (18 AAC 75.425(e)(1)(F)

Day	Operations	Estimated Recovery
Day 1-22	Vacuum truck operations	5,000 bbl/day
Day 3-22	Five Desmi 250 pumps operations	15,000 bbl/day (625 bbl/hour)
	Total Recovery Rate*	20,000 bbl/day

*exclusive of recovery completed by means other than these two pumping systems such as heavy equipment removal

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1.6.2.2 RESPONSE SCENARIO # 2 TESORO ALASKA PIPELINE (OTTER CREEK)

The attached scenario was developed in accordance with 18 AAC 75.425(e)(1)(F) and 18 AAC 75.445(d). It describes the objectives, strategies and tactics that would be used to respond to a hypothetical oil spill at a particular time and location within the Tesoro Cook Inlet operating area under assumed conditions.

The actions illustrated in the scenario may be used as a general guide for a discharge of any size. The scenario illustrates decisions made and actions taken for this response:

- **General Objectives** are presented in Tables 1.6-4 (A-D).
- **Tactical Objectives** are presented in Tables 1.6-5 (A-D).
- **Scenario Strategies** addressing regulation 18 AAC 75.425(e)(1)(F) (i-xii) are presented in Tables 1.6-6 (A-D).
- **ICS Organization Chart** is also included to show how the Tesoro Incident Management Team would fill out the Command Post (Figure 1.6-2).
- **Spill Trajectories** are presented in Figures 1.6-3 (A-D) (if spill entered Cook Inlet).

RESPONSE TYPE:	TYPE / AMOUNT
On Land Response (CISPRI / TESORO)	Diesel - 2,500 barrels

SOURCE

A contractor using a D-9 Cat working in the vicinity of the Otter Creek pipeline crossing becomes stuck. The operator collides with the pipeline while trying to free the Cat and ruptures it approximately 25 ft from the stream. The damage causes a pressure drop through-out the line.

TIME:	0830	WIND:	5 W
SEASON:	Winter (January)	TEMPERATURE:	0 Degrees
VISIBILITY:	Unlimited - Clear	LOCATION:	Mile 25 - Otter Creek Crossing

ASSUMPTIONS:

- Safe to commence response operations.
- The cause of the spill has no impact on the size or duration of the spill event.
- Number 2 diesel fuel is being pumped from the refinery to Anchorage at a rate of 1,875 barrels per hour.
- Evaporation and emulsification are not considered.
- No injuries are associated with the failure of the pipeline.

Oil Concentration: Majority of the oil spill is located in an area of the pipeline right-of-way. There are no nearby population centers. The area around the pipeline failure has a visible concentration of oil with small fingers of oil starting to flow out of the spill site location. Otter Creek which is approximately 25 feet from the pipeline spill site is frozen. Snow cover adjacent to the release site contains and absorbs the majority of the release and prevents migration downstream to Cook Inlet.

SUPPORTING ACTION TAKEN:

Notification: The Operations Manager and the Tesoro Incident Commander are notified by the pipeline area supervisors who recognized there is a problem because of the pipeline pressure drop. The Tesoro Alaska Pipeline leak detection system detected a pressure drop and sounded a leak detection alarm. The system is monitored on a 24-7 basis in both the Anchorage and Kenai Refinery. The Anchorage and Kenai pipeline operators estimate a spill volume by comparing pumping data and tank level changes over the telephone. The operators are not able to determine line drainage rate.

The Incident Commander instructs the Liaison Officer to notify the NRC, ADEC, SPCO, Kenai Peninsula Borough Emergency Services and CIRCAC immediately. Other agency notifications will be made as soon as it is determined if the spill is on state or federal lands. This notification will include USF&W, ADF&G, Kenai National Wildlife Refuge and Alaska State Parks. Authorization will be required from the Alaska Department of Fish and Game for response activities in Otter Creek since it is a salmon stream. Conoco-Phillips must be contacted as their pipeline uses the same right-of-way

Activation of Spill Management Team: The Tesoro Incident Commander activates the Initial Assessment Team, Tesoro Spill Management Team, Immediate Response Team and CISPRI. The Incident Command Center is established at CISPRI.

Initial Assessment: The Tesoro Incident Commander instructs 2 members of the Initial Assessment Team to make an aerial survey and record their observations using a video camera and 2 members to conduct a ground assessment via snowmachine. The aerial Initial Assessment Team reports the spill location within 1 hour via radio to the Incident Commander and then returns to the Command Center with the video tapes. The ground Initial Assessment Team also locates the release location within one hour and communicates their findings via cell phone. It takes 3-4 hours for the aerial assessment team to complete their task and return with the videos. Simultaneously a meeting is held with the Incident Commanders; Deputy Incident Commanders; Safety Officer, and the Operations, Planning, Logistics, and Financial Section Chiefs. A response plan is formulated and initiated. The ground Initial Assessment Team remains on site for a additional hour conducting a preliminary assessment of the below-snow spill extent.

Figure 1.6-2
RESPONSE SCENARIO #2
UPPER COOK INLET, ALASAKA, OTTER CREEK PIPELINE VICINITY

IMAGE SOURCE: GOOGLE © 2012

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Figure 1.6-3
RESPONSE SCENARIO #2
UPPER COOK INLET, ALASKA, OTTER CREEK PIPELINE DETAIL

IMAGE SOURCE: GOOGLE © 2012

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Figure 1.6-4
Scenario #2
TESORO ORGANIZATION CHART

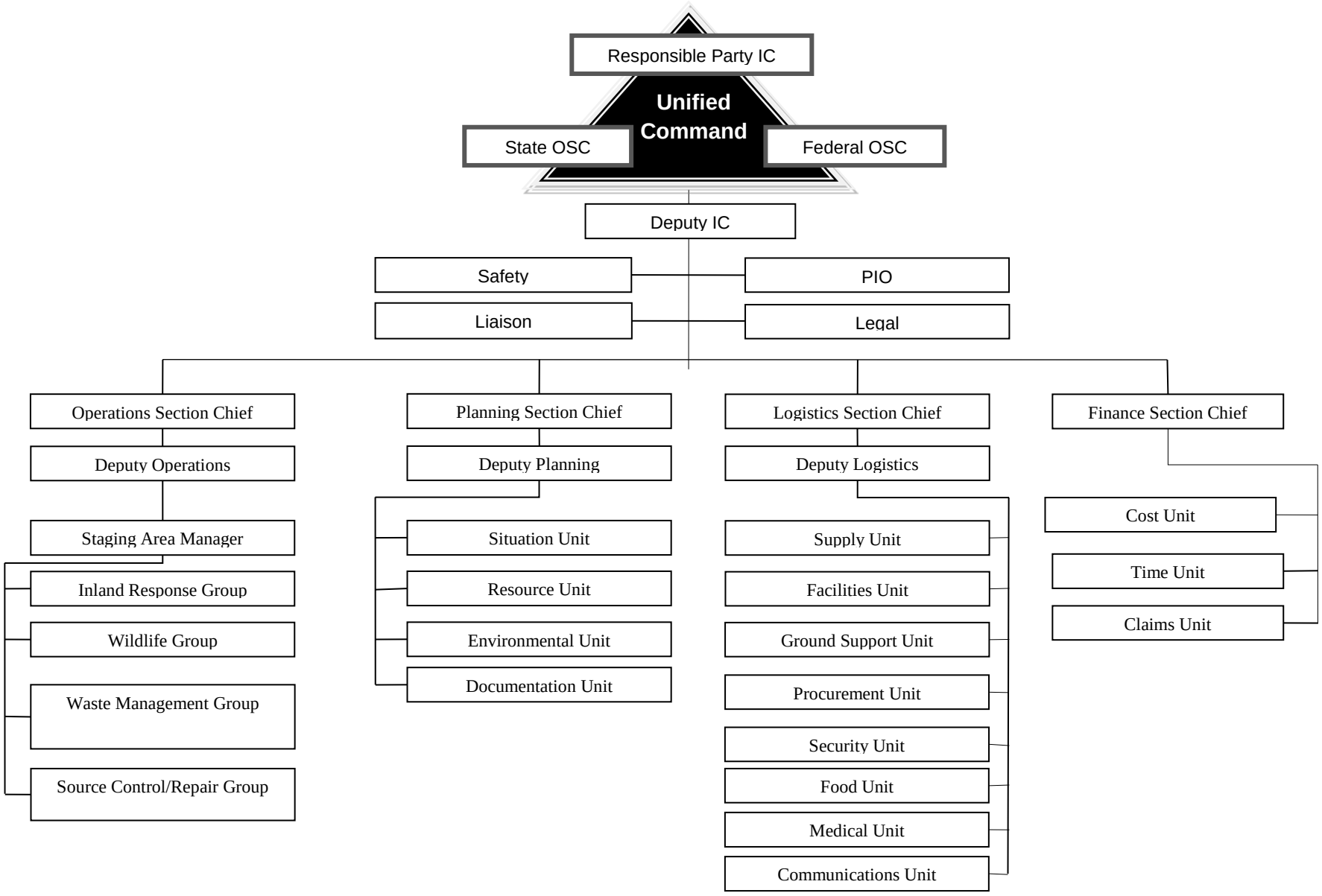

TABLE 1.6-20

RESPONSE SCENARIO #2

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY 1

OBJECTIVES	STRATEGIES
Safety	• Ensure safety of all responders • Ensure safety of the public • Secure response area
Source Control	• Secure leak • Shutdown all pipeline transfer operations • Establish and maintain wheeled vehicle access to site.
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Ensure effective Waste Management • Minimize spread of oil • Prepare required permitting
Protection of Sensitive Resources	• Minimize oiling of sensitive areas • Protect wildlife resources
Public Outreach	• Communicate spill response information to the public • Communicate spill response information to community leaders and stakeholder groups • Communicate with local land owners and fish site operators • Establish claims process

TABLE 1.6-21

RESPONSE SCENARIO #2

TACTICAL OBJECTIVES – DAY 1

COMMAND & COMMAND STAFF

0930 – 1200	1200 – 1800	1800 – 0600
UNIFIED COMMAND ☐ Establish Command Post at CISPRI ☐ Establish Unified Command ☐ Develop Goals & Objectives ☐ Establish Direct Communications (with responders)	**UNIFIED COMMAND** ☐ Maintain Direct Communications (with responders) ☐ Communicate changes of direction or priorities with IMT & Responders (as appropriate)	**UNIFIED COMMAND** ☐ Review Goals & Objectives ☐ Communicate changes of direction or priorities with IMT & Responders (as appropriate) ☐ Continue to solicit input from IMT / Field
LIAISON ☐ Complete Agency Notification ☐ Establish Community notification and identify stakeholder contacts including: ☐ Local Leaders ☐ Legislature ☐ Stakeholder Groups ☐ Tesoro Management ☐ Establish CIRCAC Liaison ☐ Establish contact schedule	**LIAISON** ☐ Conduct Agency updates ☐ Continue Community & stakeholder updates ☐ Maintain contact schedule	**LIAISON** ☐ Conduct Agency updates ☐ Continue dialog with Community contacts ☐ Maintain contact schedule
PUBLIC INFORMATION ☐ Prepare initial news release ☐ Schedule & Set up Media Conference	**PUBLIC INFORMATION** ☐ Prepare UC for Media Conference ☐ Set up Community Briefing schedule ☐ Hold U.C. Media briefing	**PUBLIC INFORMATION** ☐ Set up Community Briefing ☐ Conduct Community Briefing ☐ Maintain JIC location
SAFETY ☐ Provide Initial Site Safety Plan ☐ Conduct Site Characterization ☐ Mobilize and deploy Field Site Safety ☐ Commence preparation of Site Safety Plan	**SAFETY** ☐ Continue air monitoring ☐ Maintain contact w/ Field Site Safety ☐ Monitor **responder thermal stress** ☐ Submit Site Safety Plan to UC for approval	**SAFETY** ☐ Continue air monitoring ☐ Maintain contact w/ Field Site Safety ☐ Continue to monitor responder thermal stress/dehydration conditions.

PLANNING SECTION

0930 – 1200	1200 – 1800	1800 – 0600
PLANNING SECTION ☐ Establish the following Units •DOC • RES •SIT • ENV (Unit) ☐ Establish Meeting Schedule ☐ Facilitate all Meetings ☐ Identify nighttime operations in IAP ☐ Commence preparation of IAP	**PLANNING SECTION** ☐ Maintain Meeting Schedule ☐ Continue to facilitate all meetings ☐ Identify any special equipment needs ☐ Identify nighttime operations in IAP ☐ Submit IAP for U.C. approval	**PLANNING SECTION** ☐ Maintain Meeting Schedule ☐ Facilitate all Meetings ☐ Continue assessment of any special equipment needs
DOCUMENTATION UNIT ☐ Establish Records procedures ☐ Prepare Incident Action Plan (IAP) ☐ Provide duplication services ☐ Secure all original documentation	**DOCUMENTATION UNIT** ☐ Maintain all spill records and files ☐ Prepare Incident Action Plan (IAP) ☐ Provide duplication services ☐ Secure all original documentation	**DOCUMENTATION UNIT** ☐ Continue to maintain all records and files ☐ Distribute Incident Action Plan (IAP) ☐ Continue to provide duplication services ☐ Secure all original documentation

TABLE 1.6-21 (continued)

RESPONSE SCENARIO #2

TACTICAL OBJECTIVES – DAY 1

PLANNING SECTION *(cont.)*

0930 – 1200	1200 – 1800	1800 – 0600
RESOURCE UNIT	**RESOURCE UNIT**	**RESOURCE UNIT**
☐ Develop Equipment Status T-Cards	☐ Maintain Equipment Status T-Cards	☐ Maintain Equipment Status T-Cards
☐ Develop Personnel Status T-Cards	☐ Maintain Personnel Status T-Cards	☐ Maintain Personnel Status T-Cards
☐ Prepare Requisitions	☐ Prepare Requisitions	☐ Prepare Requisitions
☐ Complete ORG Chart (ICS-207)	☐ Complete ORG Chart (ICS-207)	☐ Revise ORG Chart (ICS-207)
SITUATION UNIT	**SITUATION UNIT**	**SITUATION UNIT**
☐ Establish Display protocols	☐ Manage information protocols	☐ Manage information protocols
☐ Establish information protocols	☐ Continue to update & manage displays	☐ Continue to update & manage displays
☐ Post and Manage CP displays	☐ Monitor and update weather & any potential trajectory information	☐ Monitor and update weather & any potential trajectory information
☐ Prepare weather & any potential trajectory information		
ENVIRONMENTAL UNIT	**ENVIRONMENTAL UNIT**	**ENVIRONMENTAL UNIT**
☐ Prepare applicable Permits & Applications	☐ Submit applicable Permits & Applications	☐ Continue to review applicable Permits & Applications
☐ Identify / Prioritize Sensitive Areas	☐ Identify / Prioritize Sensitive Areas	☐ Continue identify/prioritize sensitive areas
☐ Prepare Waste Management Plan	☐ Submit Waste Management Plan	☐ Implement Waste Management Plan
☐ Initiate preparation of applicable permits	☐ Develop Wildlife Plan (as needed)	☐ Implement Wildlife Plan (as needed)

OPERATIONS SECTION

0930 – 1200	1200 – 1800	1800 – 0600
Mobilize / Deploy:	**Deploy / Manage:**	**Manage:**
Land Based Response	**Land Based Response**	**Land Based Response**
☐ Diaphragm Pumps (2)	☐ Diaphragm Pumps (2)	☐ Diaphragm Pumps (2)
☐ Fast Tanks (4)	☐ Fast Tanks (4)	☐ Fast Tanks (4)
☐ Baker Tank	☐ Baker Tank	☐ Baker Tank
☐ Vac Truck	☐ Vac Truck	☐ Vac Truck
☐ Small Loader w/backhoe (tracked)	☐ Small Loader w/backhoe (tracked)	☐ Small Loader w/backhoe (tracked)
☐ 4 wheelers / 6 wheelers (ATVS) w/trailers	☐ 4 wheelers / 6 wheelers (ATVS) w/trailers	☐ 4 wheelers / 6 wheelers (ATVS) w/trailers
☐ Brush Burners	☐ Brush Burners	☐ Brush Burners
☐ Manta Ray skimmer heads	☐ Manta Ray skimmer heads	☐ Manta Ray skimmer heads
☐ Containment Boom (200ft)	☐ Containment Boom (200ft)	☐ Containment Boom (200ft)
☐ Lined dumpster (for solid waste)	☐ Lined dumpster (for solid waste)	☐ Lined dumpster (for solid waste)
☐ HDPE pipe	☐ HDPE pipe	☐ HDPE pipe
☐ Assorted Sorbent boom, sweeps & pads	☐ Assorted Sorbent boom, sweeps & pads	☐ Assorted Sorbent boom, sweeps & pads
	☐ Develop ICS-204 to include any night time operations.	☐ Develop ICS-204 to include any night time operations.
Supervise	**Supervise**	**Supervise**
☐ Land Based Recovery operations	☐ Land Based recovery operations	☐ Land Based recovery operations
☐	☐ Aircraft Overflights/Deployments	☐ Aircraft Overflights/Deployments
☐ Pipeline Repair Operations	☐ Waste Management operations	☐ Waste Management operations
☐ Aircraft Overflights/Deployments	☐ Pipeline repair operations	☐ Pipeline repair operations
☐ Staging Area Management	☐ Staging Area Management	☐ Staging Area Management
☐ Wildlife Management Operations	☐	☐

TABLE 1.6-21 (continued)

RESPONSE SCENARIO #2

TACTICAL OBJECTIVES – DAY 1

LOGISTICS SECTION		
0930 – 1200	**1200 – 1800**	**1800 – 0600**
Establish Command Post	Maintain IRT & CISPRI responders	Maintain IRT & CISPRI responders
Arrange for Over-flights (if needed)	Maintain contracted responders/equipment operators, etc as needed	Maintain contracted responders/equipment operators, etc as needed
Establish Staging Area	Continue to maintain Meals and Services	Continue to maintain Meals and Services
Captain Cook Overlook parking area	Expand and maintain Lodging as needed	Expand and maintain Lodging as needed
Moose Point Conex area	Maintain transportation functions	Set up for incidentals Lights, Porta-Potties, tents, Visqueen, etc
Mobilize all Tesoro IRTs	Set up for incidentals Lights, Porta-Potties, tents, Visqueen, etc	Maintain transportation functions
Mobilize CISPRI responders	Maintain Communications Network	Maintain Communications Network and communications with field responders
Provide Meals and Services	Process all requisitions	Continue to process all requisitions
Provide transportation for responders & equipment		
Prepare Communications Plan		
Order incidentals including Lights, Porta-Potties, tents, Visqueen, etc		

FINANCE SECTION		
0930 – 1200	**1200 – 1800**	**1800 – 0600**
Implement system for meeting financial needs	Maintain system for meeting financial needs	Maintain system for meeting financial needs
Establish & Publish Claims Number	Maintain Claims Number	Maintain Claims Number
Initiate Cost tracking	Maintain Cost tracking	Maintain Cost tracking

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TABLE 1.6-22

RESPONSE SCENARIO #2 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 – 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 – 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
Safety	• Conduct Initial Safety Assessment • Conduct Site Characterization • Establish Site Control • Commence preparation of Site Safety Plan	CI-S-1 CI-S-2 CI-S-3 CI-S-4 CI-LP-6 CI-App –C	• Review and Approve Medical Plan • Submit Site Safety Plan to U.C. for approval and provide to field responders • Establish and maintain communications with Field Site Safety (FSS) personnel	CI-App -C CI-LP-2 Sec 1.3	• Expand/review Site Safety Plan for next operational period as needed • Continue to monitor field operations (maintain communications) • Audit evening field operations	CI-App -C CI-LP-2
Notification	• Completed NRC and ADEC notifications • Activate and mobilize CISPRI as needed • Complete Agency and Stakeholder notifications • Establish communications with the Captain Cook State Park (Land Use Permits) • Establish & maintain communications with local community leaders (Fire Dept) • Establish & maintain communications with Tesoro Corporate Management • Completed Agency and Stakeholder notifications • Notify Conoco-Phillips (Right-of-Way) • Establish liaison position for communications with CIRCAC	Sec 1.2	• Maintain communications with Tesoro Corporate Management • Maintain Agency and Stakeholder communications • Maintain communications with local community leaders (Police and Fire) • Maintain communications with Captain Cook State Park (Land Use Permits) • • Maintain communications Conoco-Phillips	Sec 1.2	• Maintain communications with Tesoro Corporate Management • Maintain Agency and Stakeholder communications • Maintain communications with local community leaders (Police and Fire) • Maintain communications with Captain Cook State Park • Maintain communications Conoco-Phillips	Sec 1.2
(i) Stopping Discharge at Source & (viii) Lightering	• Tesoro Alaska Pipeline pumps immediately shutdown • MOV 3 (Swanson River) & 4 (Moose Point) are closed • Lightering – not associated in scenario	Sec 1.6	• Tesoro Alaska Pipeline pumps immediately shutdown • MOV 3 (Swanson River) & 4 (Moose Point) are to remain closed • Discharge secured – continue to monitor		• Tesoro Alaska Pipeline pumps immediately shutdown • MOV 3 (Swanson River) & 4 (Moose Point) are to remain closed • Discharge secured – continue to monitor	
(ii) Preventing or Controlling Fire Hazards	• Notify Tesoro Fire Brigade • Notify Central Emergency Services via (911)	Sec 1.3	• Monitor area for any fire potential	Sec 1.3	• Monitor area for any fire potential	Sec 1.3
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• On-Site Responders to report any oil movement or potential movement off of the pipeline right-of-way. • Mobilize and deploy aerial surveillance (as needed)	CI-TS-1 CI-TS-4	• Continue to have On-Site Responders report any oil movement or potential movement off of the pipeline right-of-way or out of Otter creek and into Cook Inlet. • Use aerial surveillance as needed. • Request CISPRI's hand held infrared camera • Prepare to delineate extent of spill area	CI-TS-2	• Continue to have On-Site Responders report any oil movement or potential movement off of the pipeline right-of-way or out of Otter creek and into Cook Inlet. • Prepare CISPRI's hand held infrared camera for evening operations	CI-TS-2

TABLE 1.6-22(Continued)

RESPONSE SCENARIO #2 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 – 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 – 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Minimize traffic footprint as best possible • Evaluate any nearby potential downstream potential areas of contamination including: ▪ Swanson River ▪ Bishop Creek ▪ Seven Egg Creek • Monitor and evaluate forecasted weather information	CI-SA-1 CI-SA-2	• Continue to evaluate any nearby potential downstream potential areas of contamination: ▪ Swanson River ▪ Bishop Creek ▪ Seven Egg Creek • Monitor and evaluate forecasted weather information • Minimize traffic footprint as best possible	CI-SA-3	• Continue to evaluate any nearby potential downstream potential areas of contamination: ▪ Swanson River ▪ Bishop Creek ▪ Seven Egg Creek • Monitor and evaluate forecasted weather information • Minimize traffic footprint as best possible	
(vi) Spill Containment and Control Actions & (vii) Spill Recovery Procedures	• Mobilize and deploy pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Mobilize CISPRI responders and deploy inland response equipment from Warehouse - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Mobilize Vac trucks, baker tanks, • Mobilize Wildlife Management (trained) to response area as needed *(Tesoro Security)* • Mobilize heavy tracked equipment for pipeline travel access, trenching, etc	Appendix –A CI-LP-1A CI-LP-1B CI-LP-3 CI-LP-4 CI-IL-1 CI-IL-2 CI-IL-9 CI-W-6	• Manage deployed pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Manage CISPRI responders and deploy inland response equipment from Warehouse: - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Mobilize Vac trucks, baker tanks, • Deploy and Manage Wildlife Management (trained) to response area as needed (Tesoro Security) • Manage tracked equipment for trenching, excavation, pipeline repair, etc.	Appendix –A CI-LP-1A CI-LP-1B CI-LP-3 CI-LP-4 CI-IL-1 CI-IL-2 CI-IL-9 CI-W-6	• Manage deployed pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Manage CISPRI responders and deploy inland response equipment from Warehouse - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Mobilize Vac trucks, baker tanks, • Manage Wildlife Management (trained) to response area *(Tesoro Security)* • Manage tracked equipment for trenching, excavation, pipeline repair, etc. • Prepare area for first light response effort	
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Mobilize and deploy CISPRI / Tesoro Fast tanks to spill site. • Mobilize Baker tank to vicinity of spill site.	CI-WM-1 CI-LP-6	• Assess all potential storage needs. • Maintain and deploy CISPRI / Tesoro Fast tanks to spill site. • KPL or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes	CI-TS-4	• Continue to assess all potential storage needs. • Maintain and deploy CISPRI / Tesoro Fast tanks to spill site. • KPL or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes.	

TABLE 1.6-22 (Continued)

RESPONSE SCENARIO #2 SCENARIO STRATEGY – DAY ONE						
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• Environmental Unit develop Waste Management Plan • Establish portable tankage at site for storage of recovered product/contaminated liquids • Establish available tankage at KPL or the Refinery for recovered oil/liquid storage.	CI-WM-1 CI-WM-4 CI-LP-6 Appendix-D	• Environmental Unit submit Waste Management Plan to U.C. for approval • Establish portable tankage at site for storage of recovered product/contaminated liquids ▪ Fast tanks • Establish locations at KPL for temporary solid waste storage • Establish decon area at spill site	CI-WM-5	• Maintain portable tankage at site for storage of recovered product/contaminated liquids • Maintain locations at KPL for temporary solid waste storage • Establish available tankage at KPL or the Refinery for recovered oil/liquid storage. • Maintain decon area at spill site	
(xi) Wildlife Protection Plan	• Establish contact with resource agencies • Prepare & Submit appropriate Permits • Consult with ADF&G and USF&W. • Notify IBRC International Bird Rescue Center • Establish Wildlife Management in response area • Maintain clean response site (Secure all food)	CI-W-1 CI-W-2 CI-LP-6	• Begin receiving permit approvals • Continually assess any wildlife needs • Maintain communications with IBRC to ensure they are ready to deploy • Maintain Wildlife Management in response area when response personnel are in area • Maintain clean response site (Secure all food)	CI-LP-5 CI-W-6	• Comply with permit and plan approvals • Continually assess any wildlife needs including hazing, capture, etc • Continue to maintain communications with IBRC to ensure they are ready to deploy • Maintain Wildlife Management in response area when response personnel are in area • Maintain clean response site (Secure all food)	

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TABLE 1.6-23

RESPONSE SCENARIO #2

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY TWO

OBJECTIVES	STRATEGIES
Safety	• Continue to ensure safety of all responders • Continue to secure response area
Source Control	• Secure pipeline and make repairs to leak • Shutdown TSO pipeline until line is repaired
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Maintain effective Waste Management practices • • Make any appropriate changes to permits as required
Protection of Sensitive Resources	• Continue to minimize oiling of sensitive areas •
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups • Continue to maintain claims process

TABLE 1.6-24

RESPONSE SCENARIO #2

TACTICAL OBJECTIVES – DAY TWO

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT ❒ Review and approve plans, applications and permits (as appropriate) ❒ Approve any prioritized sensitive areas to be protected
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue U.C. Media Briefing
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot Safety audit
PLANNING	PSC	❒ Maintain Command Post at CISPRI ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Validate trajectory information with aerial surveillance
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate permits and plans as needed ❒ Supervise solid and liquid waste management locations ❒ Continue to prioritize sensitive area protection needs ❒ Continue to assess wildlife needs
OPERATIONS	OPS	❒ Continue to implement and evaluate surveillance options ❒ Manage land based recovery operations ❒ Manage pipeline repair operations (as needed) ❒ ❒ Prepare for any sensitive area protection ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area ❒ Continue to manage solid and liquid waste ❒ Implement and/or evaluate non-mechanical operations - localized In-Situ burning (as approved by U.C.)
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Activate pipeline repair crews and equipment as needed ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Claims Tracking ❒ Continue Cost Tracking

TABLE 1.6-25

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
Safety	• Continue site characterization and air monitoring. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of ongoing operations.	• Continue site characterization and air monitoring. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured – continue to monitor potential for spill escaping containment to Cook Inlet	• Source secured – continue to monitor potential for spill escaping containment to Cook Inlet
(ii) Preventing or Controlling Fire Hazards	• Continue to Monitor area for any fire potential • Continuously monitor for changes in wind direction	• Continue to Monitor area for any fire potential
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have Responders report any oil movement or potential movement off of the pipeline right-of-way or out of Otter creek & into Cook Inlet. • Use aerial surveillance as needed.	• Continue to have Responders report any oil movement or potential movement off of the pipeline right-of-way or out of Otter creek & into Cook Inlet. • Use aerial surveillance as needed.
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Trailer additional CISPRI boom in the event there is a need to deploy – pre-stage at Otter Creek shoreline area. • Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information • Minimize traffic footprint as best possible	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information • Minimize traffic footprint as best possible

TABLE 1.6-25 (Continued)

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Manage deployed pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: • Boom; • Diaphragm Pump; • Fast Tank; • Generator; • Lights; • Decon; • ATVs, etc. • Manage CISPRI responders and deploy inland response equipment from Warehouse: • Boom; • Diaphragm Pump; • Fast Tank; • Generator; • Lights; • Decon; • ATVs, etc. • Manage Vac trucks, baker tanks, • Manage Wildlife Management (trained) to response area *(Tesoro Security)* when responders are present • Manage tracked equipment for trenching, excavation, pipeline repair, etc. • • Prepare area for first light response effort	• Manage deployed pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: • Boom; • Diaphragm Pump; • Fast Tank; • Generator; • Lights; • Decon; • ATVs, etc. • Manage CISPRI responders and deploy inland response equipment from Warehouse • Boom; • Diaphragm Pump; • Fast Tank; • Generator; • Lights; • Decon; • ATVs, etc. • Mobilize Vac trucks, baker tanks, • Manage Wildlife Management (trained) to response area *(Tesoro Security)* • Manage tracked equipment for trenching, excavation, pipeline repair, etc. • Prepare area for first light response effort
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.	• Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• EUL to reassess Waste Management Plan • Maintain locations for temporary solid waste storage • Establish decon area at spill site • Properly segregate waste / waste management Plan.	• Maintain locations for temporary solid waste storage • Maintain decon area at spill site • Properly segregate waste / waste management Plan.

TABLE 1.6-25 (Continued)

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals • Alert day shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Maintain clean response area (secure all foods)	• Comply with permit and plan approvals • Alert night shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Maintain clean response area (secure all foods)
(xii) Shoreline Cleanup	• Continue to maintain shoreline cleanup contractors in ready status. • Prepare to mobilize transportation resources to transport shoreline cleanup personnel & equipment.	• Prepare to deploy Pre-Shoreline Cleanup Assessment Teams (SCAT contractor) as needed

TABLE 1.6-26

RESPONSE SCENARIO #2

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY THREE

OBJECTIVES	STRATEGIES
Safety	• Continue to ensure safety of all responders and repair team personnel • Secure response area
Source Control	• Secure TSO pipeline until line is repaired
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Maintain effective Waste Management practices • • Make any appropriate changes to permits as required
Protection of Sensitive Resources	• • Continue protection of wildlife resources • Continue to minimize footprint in response area
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups • Continue to maintain claims process

TABLE 1.6-27

RESPONSE SCENARIO #2

TACTICAL OBJECTIVES – DAY THREE

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT ❒ Review and approve plans, applications and permits (as appropriate)
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue JIC daily Media updates
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot Safety audits
PLANNING	PSC	❒ Maintain Command Post at CISPRI ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate permits and plans as needed ❒ Supervise solid and liquid waste management locations Continue to assess wildlife needs
OPERATIONS	OPS	❒ Continue to implement and evaluate surveillance options ❒ Manage land based recovery operations ❒ Manage pipeline repair operations (as needed) ❒ Maintain Wildlife Management operations ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area ❒ Continue to manage solid and liquid waste ❒ Implement and/or evaluate non-mechanical operations - localized In-Situ burning (as approved by U.C.)
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Activate pipeline repair crews and equipment as needed ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Claims Tracking ❒ Continue Cost Tracking

TABLE 1.6-28

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY THREE

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
Safety	• Continue site characterization and air monitoring. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of ongoing operations.	• Continue site characterization and air monitoring. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured – continue to monitor release extent	• Source secured – continue to monitor release extent
(ii) Preventing or Controlling Fire Hazards	• Continue to Monitor area for any fire potential • Continuously monitor for changes in wind direction	• Continue to Monitor area for any fire potential
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have Responders report any oil movement or potential movement off of the pipeline right-of-way or out of Otter creek & into Cook Inlet. • Continue to delineate extent of spill area	• Continue to have Responders report any oil movement or potential movement off of the pipeline right-of-way or out of Otter creek & into Cook Inlet. •
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information • Minimize traffic footprint as best possible	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information • Minimize traffic footprint as best possible

TABLE 1.6-28 (Continued)

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY THREE

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Manage deployed pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: 3 - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Manage CISPRI responders and deploy inland response equipment from Warehouse - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Manage transportation of waste (solid & liquid) • • Manage Wildlife Management (trained) to response area *(Tesoro Security)* when responders are present • Manage tracked equipment for trenching, excavation, pipeline repair, etc. • Prepare area for evening response effort	• Manage deployed pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Manage CISPRI responders and deploy inland response equipment from Warehouse - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights;- Decon; - ATVs, etc. • Manage transportation of waste (solid & liquid) • • Manage Wildlife Management (trained) to response area *(Tesoro Security)* • Manage tracked equipment for trenching, excavation, pipeline repair, etc. • Prepare area for first light response effort
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.	• Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• EUL to reassess Waste Management Plan • Maintain locations at Moose Point for temporary solid waste storage • Establish decon area at spill site • Segregate waste per waste Management Plan.	• Maintain locations at Moose Point for temporary solid waste storage • Maintain decon area at spill site • Segregate waste per waste Management Plan.

TABLE 1.6-28 (Continued)

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY THREE

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals • • Maintain clean response area (secure all foods)	• Comply with permit and plan approvals • • • Maintain clean response area (secure all foods)
Non-Mechanical Response Information	• Evaluate potential and submit application for localized In-Situ Burning as needed	• Continue to evaluate potential for localized In-Situ Burning for morning operations

TABLE 1.6-29

RESPONSE SCENARIO #2

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY FOUR & BEYOND

OBJECTIVES	STRATEGIES
Safety	• Ensure safety of all responders and repair team personnel • Secure immediate response area (as needed)
Source Control	• Maintain oil storage locations (tankage)
Containment, Control & Recovery of Oil	• Continue to maximize mechanical containment, control and • recovery of oil • Continue to ensure effective Waste Management • • Continue to maintain and follow-up on required permitting
Protection of Sensitive Resources	• • Continue to minimize footprint in response area
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups • Continue to maintain claims process
Management	• Commence daily communications with Unified Command via teleconference • Commence project based response and pipeline repair operations • Report any changes in oil sightings, response operations or repair operations

TABLE 1.6-30

RESPONSE SCENARIO #2

TACTICAL OBJECTIVES – DAY FOUR & BEYOND

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Scale down response effort and turn into a project based response
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue JIC daily Media updates ❒ Prepare final U.C. Media Briefing
	SO	❒ Maintain Site Safety Plan (reevaluate)
PLANNING	PSC	❒ Move Command Post to Refinery ❒ Ensure orderly demobilization of Command Post
	DOC	❒ Maintain records and file controls
	RUL	❒ Maintain records of T-Card files and displays ❒ Maintain record of Organization chart
	SUL	❒ Maintain records of all CP displays ❒ Maintain records of aerial surveillance & trajectories
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate plans as needed ❒ Supervise waste disposal and management
OPERATIONS	OPS	❒ Continue to implement and evaluate surveillance options ❒ Manage land based recovery operations ❒ Manage pipeline repair operations (as needed) ❒ Continue to evaluate need for additional resources (as needed)Continue to manage equipment staging area ❒ Continue to manage solid and liquid waste ❒ Manage equipment and personnel demobilization efforts
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Demobilize pipeline repair crews and equipment as needed ❒ Procure and maintain support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Claims Tracking ❒ Continue Cost Tracking

TABLE 1.6-31

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY FOUR & BEYOND

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	**Night Shift**
Safety	• Continue site characterization and air monitoring. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of ongoing operations.	• Continue site characterization and air monitoring. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured	• Source secured
(ii) Preventing or Controlling Fire Hazards	• Continue to Monitor area for any fire potential • Continuously monitor for changes in wind direction	• Continue to Monitor area for any fire potential
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have Responders report any oil movement or potential movement off of the pipeline right-of-way or out of Otter creek & into Cook Inlet. • • Continue to delineate extent of spill area	• Continue to have Responders report any oil movement or potential movement off of the pipeline right-of-way or out of Otter creek & into Cook Inlet. •
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• • Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information • Minimize traffic footprint as best possible	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information • Minimize traffic footprint as best possible

TABLE 1.6-31 (Continued)

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY FOUR & BEYOND

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Manage deployed pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Manage CISPRI responders and deploy inland response equipment from Warehouse - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights;- Decon; - ATVs, etc. • Manage transportation of waste (solid & liquid) • • Manage Wildlife Management (trained) to response area *(Tesoro Security)* when responders are present • Manage tracked equipment for trenching, excavation, pipeline repair, etc. • Prepare area for evening response effort	• Manage deployed pre-staged Tesoro Spill Response Equipment from Moose Point CONEX including: - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights; - Decon; - ATVs, etc. • Manage CISPRI responders and deploy inland response equipment from Warehouse - Boom; - Diaphragm Pump; - Fast Tank; - Generator; - Lights;- Decon; - ATVs, etc. • Manage transportation of waste (solid & liquid) • • Manage Wildlife Management (trained) to response area *(Tesoro Security)* • Manage tracked equipment for trenching, excavation, pipeline repair, etc. • Prepare area for first light response effort
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.	• Continually assess all potential storage needs. • Continue to maintain designated tankage to receive and segregate recovered oil.
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• EUL to reassess Waste Management Plan • Maintain locations at Moose Point for temporary solid waste storage • Establish decon area at spill site • Segregate waste per waste Management Plan.	• Maintain locations at Moose Point for temporary solid waste storage • Maintain decon area at spill site • Segregate waste per waste Management Plan.

TABLE 1.6-31 (Continued)

RESPONSE SCENARIO #2

SCENARIO STRATEGY – DAY FOUR & BEYOND

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals • • Continually assess any wildlife needs • Maintain clean response area (secure all foods)	• Comply with permit and plan approvals • • Continually assess any wildlife needs • Maintain clean response area (secure all foods)
(Non-Mechanical Response Information	• N Not applicable this point of response	• Not applicable this point of response.

Table 1.6-32

Response Scenario #2

EXPECTED TIMELINE FOR RESPONSE ACTIONS (18 AAC 75.425(e)(1)(F)

Day	Operations	Estimated Recovery
Day 1	Diaphragm pump recovery and vacuum truck operations on a limited basis	500 bbl
Day 2	Pooled product removed via diaphragm pump and vacuum truck	1500 bbl
Day 3	Residual pooled product recovery via vacuum truck, snow and debris removal via heavy equipment	400 bbl
Day 4	Residual snow and debris scraping and removal via heavy equipment	100 bbl

1.6.2.3 RESPONSE SCENARIO # 3 TESORO ALASKA PIPELINE (TURNAGAIN ARM)

The attached scenario was developed in accordance with 18 AAC 75.425(e)(1)(F) and 18 AAC 75.445(d). It describes the objectives, strategies and tactics that would be used to respond to a hypothetical oil spill at a particular time and location within the Tesoro Cook Inlet operating area under assumed conditions.

The actions illustrated in the scenario may be used as a general guide for a discharge of any size. The scenario illustrates decisions made and actions taken for this response:

- **General Objectives** are presented in Tables 1.6-7 (A-D).
- **Tactical Objectives** are presented in Tables 1.6-8 (A-D).
- **Scenario Strategies** addressing regulation **18 AAC 75.425(e)(1)(F) (i-xii)** are presented in
- Tables 1.6-9 (A-D).
- **ICS Organization Chart** is also included to show how the Tesoro Incident Management
- Team would fill out the Command Post (Figure 1.6-4).
- **Spill Trajectories** are presented in Figures 1.6-5 (A-C).

This spill scenario depicts representative oil spill response activities for an oil spill originating from the Tesoro Alaska Pipeline. It is designed to demonstrate the ability to respond to an event of this size and location.

RESPONSE TYPE:	TYPE / AMOUNT
On Water Response (CISPRI / TESORO)	Diesel - 10,000 barrels (Potential)

SOURCE

An event of unknown origin triggers a pipeline failure from the Tesoro Alaska Pipeline. A heavy slick of diesel fuel is on the surface of Turnagain Arm. The Tesoro Alaska Pipeline leak detection system detected a pressure drop and sounded a leak detection alarm. The system is monitored on a 24-7 basis in both the Anchorage and Kenai Refinery.

TIME:	1200	WIND:	5 NW
SEASON:	Summer	TEMPERATURE:	58 Degrees
VISIBILITY:	10 miles – Clear	LOCATION:	Mile 48 (Turnagain Arm)

ASSUMPTIONS:

- Safe to commence response operations.
- The cause of the spill has no impact on the size or duration of the spill event.
- Evaporation and emulsification are not considered. Although rapid dissipation of the diesel fuel would start immediately.
- No injuries are associated with the failure of the pipeline.

Oil Concentration: There are no nearby population centers however the city of Anchorage is approximately 12 miles from the spill.

SUPPORTING ACTION TAKEN:

Notification: The Manager, Pipelines and Terminals and the Tesoro Incident Commander are notified by the pipeline area supervisors who recognized there is a problem because of the pipeline pressure drop. The Tesoro Alaska Pipeline leak detection system detected a pressure drop and sounded a leak detection alarm. The system is monitored on a 24-7 basis in both the Anchorage and Kenai Refinery. The Anchorage and Kenai pipeline operators estimate a spill volume by comparing pumping data and tank level changes over the telephone. The operators are not able to determine line drainage rate.

The Incident Commander instructs the Liaison Officer to notify the NRC, ADEC, SPCO and Kenai Peninsula Borough Emergency Services immediately. This notification will also include USF&W, and ADF&G.

Activation of the Response Team: The Tesoro Incident Commander activates the Initial Assessment Team, Tesoro Spill Command and Response Teams plus CISPRI. The Incident Command Center is established at CISPRI.

Initial Assessment: The Tesoro Incident Commander instructs 2 members of the Tesoro IMT to make an aerial survey and record their observation using a video camera. The IMT members report the spill location within 1 hour via radio to the Incident Commander and then returns to the Command Center with the video tapes. It takes 1-2 hours for the assessment team to complete their task and return with the videos. Simultaneously a meeting is held with the Incident Commanders; Safety Officer, Deputy Incident Commanders; and the Operations, Planning, Logistics, and Finance Section Chiefs. A response plan (initial objectives) is formulated and initiated.

Pipeline Repairs: A dive team to make permanent repairs will be arranged for by Logistics. The Dive / Repair Team will be contracted with a vessel. Divers must be certified. Divers are listed in the Unified Plan under the Resources Section (Part Three – Salvage and Towing Companies)

Figure 1.6-5
Scenario #3
TESORO ORGANIZATION CHART

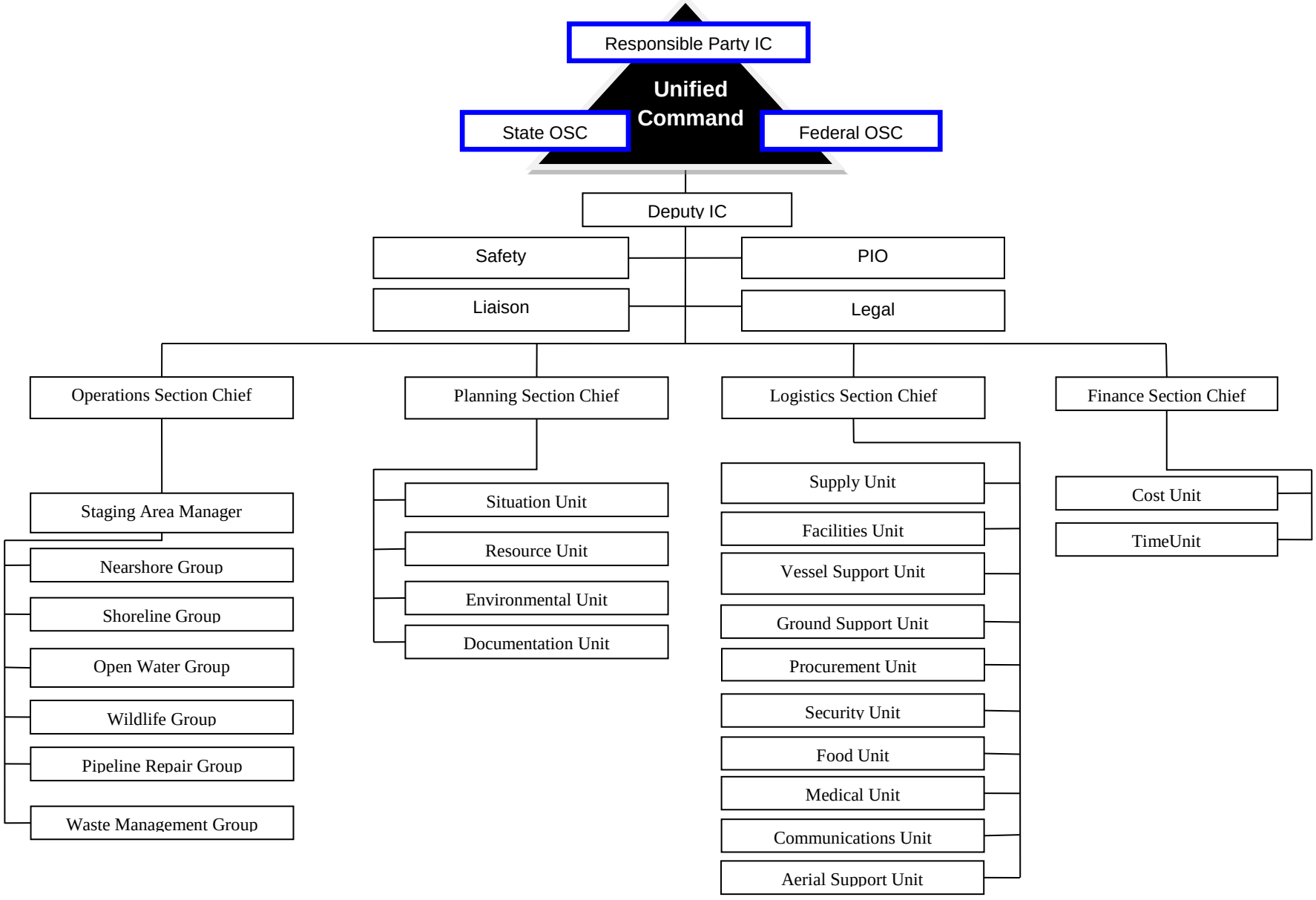

TABLE 1.6-33

RESPONSE SCENARIO #3

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY 1

OBJECTIVES	STRATEGIES
Safety	• Ensure safety of all responders • Ensure Safety of Public • Secure response area
Source Control	• Secure the leak • Shutdown all Tesoro Alaska Pipeline transfer operations
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Ensure effective Waste Management • Minimize spread of oil • Prepare required permitting
Protection of Sensitive Resources	• Minimize oiling of sensitive areas • Develop and initiate SCAT protocols • Protect wildlife resources
Public Outreach	• Communicate spill response information to the public • Communicate spill response information to community leaders and stakeholder groups • Establish claims process
Management	• Initiate Unified Command • CISPRI is Command Post

TABLE 1.6-34

RESPONSE SCENARIO #3

TACTICAL OBJECTIVES – DAY 1

COMMAND & COMMAND STAFF

0600 – 1200	1200 – 1800	1800 – 0600
NOT APPLICABLE FOR THIS RESPONSE SCENARIO	**UNIFIED COMMAND** ☐ Establish Command Post at CISPRI ☐ Establish Unified Command ☐ Develop Goals & Objectives ☐ Establish Direct Communications with responders	**UNIFIED COMMAND** ☐ Maintain Direct Communications with (responders) ☐ Communicate changes of direction or priorities with IMT & Responders (as appropriate)
	LIAISON ☐ Complete Agency Notification ☐ Establish Community notification and identify stakeholder contacts including: ☐ Local Leaders ☐ Legislature ☐ Stakeholder Groups ☐ Tesoro Management ☐ Establish CIRCAC Liaison ☐ Establish contact schedule	**LIAISON** ☐ Conduct Agency updates ☐ Continue Community & stakeholder updates ☐ Maintain contact schedule
	PUBLIC INFORMATION ☐ Prepare initial news release ☐ Schedule & Set up Media Conference	**PUBLIC INFORMATION** ☐ Prepare UC for Media Conference ☐ Set up Community Briefing schedule ☐ Hold U.C. Media briefing
	SAFETY ☐ Provide Initial Site Safety Plan ☐ Conduct Site Characterization ☐ Mobilize and deploy Field Site Safety ☐ Commence preparation of Site Safety Plan	**SAFETY** ☐ Continue air monitoring ☐ Maintain contact w/ Field Site Safety ☐ Submit Site Safety Plan to UC for approval

PLANNING SECTION

0600 – 1200	1200 – 1800	1800 – 0600
NOT APPLICABLE FOR THIS RESPONSE SCENARIO	**PLANNING SECTION** ☐ Establish the following Units • DOC • RES • SIT • ENV (Unit) ☐ Establish Meeting Schedule ☐ Facilitate all Meetings ☐ Identify nighttime operations in IAP ☐ Commence preparation of IAP	**PLANNING SECTION** ☐ Maintain Meeting Schedule ☐ Continue to facilitate all meetings ☐ Identify any special equipment needs ☐ Identify nighttime operations in IAP ☐ Submit IAP for U.C. approval
	DOCUMENTATION UNIT ☐ Establish Records procedures ☐ Prepare Incident Action Plan (IAP) ☐ Provide duplication services ☐ Secure all original documentation	**DOCUMENTATION UNIT** ☐ Maintain all spill records and files ☐ Prepare Incident Action Plan (IAP) ☐ Provide Duplication services ☐ Secure all original documentation

TABLE 1.6-34 (continued)

RESPONSE SCENARIO #3

TACTICAL OBJECTIVES – DAY 1

PLANNING SECTION *(continued)*

0600 – 1200	1200 – 1800	1800 – 0600
NOT APPLICABLE FOR THIS RESPONSE SCENARIO	**RESOURCE UNIT** ☐ Develop Equipment Status T-Cards ☐ Develop Personnel Status T-Cards ☐ Prepare Requisitions ☐ Complete ORG Chart (ICS-207)	**RESOURCE UNIT** ☐ Maintain Equipment Status T-Cards ☐ Maintain Personnel Status T-Cards ☐ Prepare Requisitions ☐ Complete ORG Chart (ICS-207)
	SITUATION UNIT ☐ Establish Display protocols ☐ Establish information protocols ☐ Post and Manage CP displays ☐ Prepare weather & any potential trajectory information	**SITUATION UNIT** ☐ Manage information protocols ☐ Continue to update & manage displays ☐ Monitor and update weather & any potential trajectory information
	ENVIRONMENTAL UNIT ☐ Prepare applicable Permits & Applications ☐ Identify / Prioritize Sensitive Areas ☐ Prepare Waste Management Plan ☐ Initiate preparation of applicable permits	**ENVIRONMENTAL UNIT** ☐ Submit applicable Permits & Applications ☐ Identify / Prioritize Sensitive Areas ☐ Submit Waste Management Plan ☐ Develop Wildlife Plan (as needed) ☐ Develop & Submit SCAT Plan (as needed)

OPERATIONS SECTION

0930 – 1200	1200 – 1800	1800 – 0600
NOT APPLICABLE FOR THIS RESPONSE SCENARIO	**Mobilize / Deploy:** **Open Water Response** ☐ OSRVs/56-disc skimmer/current buster (2) ☐ Response/Lightering Barges (2) **Nearshore Response** ☐ Utility Vessel/13-disc skimmer/harbor buster (2) ☐ Mini barge (2) **Shoreline Response** ☐ SCAT Team ☐ Shore-Seal Boom ☐ Containment Boom w/anchoring systems **Pipeline Repair Operations** ☐ Dive Boat ☐ Divers ☐ Pipeline patch kit *(Plitco Clamp)* **Land Based Response** ☐ Vacuum Truck (2) *(Point Campbell)*	**Deploy / Manage:** **Open Water Response** ☐ OSRVs (2) (56-disc skimmers/current buster) ☐ Response/Lightering Barges (2) **Nearshore Response** ☐ Utility Vessel/13-disc skimmer/harbor buster (2) ☐ Mini barge (2) **Shoreline Response** ☐ SCAT Team ☐ Shore-Seal Boom ☐ Containment Boom w/anchoring systems **Pipeline Repair Operations** ☐ Dive Boat ☐ Divers ☐ Pipeline patch kit *(Plitco Clamp)* **Land Based Response** ☐ Vacuum Truck (2) *(Point Campbell)*

TABLE 1.6-34 (continued)

RESPONSE SCENARIO #3

TACTICAL OBJECTIVES – DAY 1

OPERATIONS SECTION *(continued)*		
	Supervise	**Supervise**
NOT APPLICABLE FOR THIS RESPONSE SCENARIO	☐ Open Water Recovery Operations ☐ Nearshore Recovery Operations ☐ Shoreline Protection Operations ☐ Aircraft Overflights/Deployments ☐ Staging Area Management ☐ Wildlife Management Operations *(Bear Guard)*	☐ Open Water Recovery Operations ☐ Nearshore Recovery Operations ☐ Shoreline Protection Operations ☐ Aircraft Overflights/Deployments ☐ Staging Area Management ☐ Wildlife Management Operations *(Bear Guard)*
LOGISTICS SECTION		
0600 – 1200	**1200 – 1800**	**1800 – 0600**
NOT APPLICABLE FOR THIS RESPONSE SCENARIO	☐ Establish Command Post ☐ Arrange for Over-flights (if needed) ☐ Establish Staging Area ☐ OSK Dock / CISPRI ☐ Port of Anchorage ☐ Mobilize all Tesoro IRTs ☐ Mobilized contracted responders as needed ☐ Provide Meals and Services ☐ Provide transportation for responders & equipment ☐ Prepare Communications Plan ☐ Order incidentals including Lights, ☐ Porta-Potties, tents, Visqueen, etc	☐ Maintain IRT & SNRT personnel ☐ Maintain contracted responders if needed ☐ Continue to maintain Meals and Services ☐ Expand and maintain Lodging as needed ☐ Maintain communications with IBRC ☐ Maintain transportation functions ☐ Set up for incidentals Lights, Porta-Potties, tents, Visqueen, etc ☐ Maintain Communications Network ☐ Follow potential for SCAT needs ☐ Process all requisitions
FINANCE SECTION		
0600 – 1200	**1200 – 1800**	**1800 – 0600**
NOT APPLICABLE FOR THIS RESPONSE SCENARIO	☐ Implement system for meeting financial needs ☐ Establish & Publish Claims Number ☐ Initiate Cost tracking	☐ Maintain system for meeting financial needs ☐ Maintain Claims number ☐ Maintain Cost tracking

Figure 1.6-6

RESPONSE SCENARIO #3

TURNAGAIN ARM, ALASKA CISPRI SPILL TRAJECTORY (1800) - DAY ONE

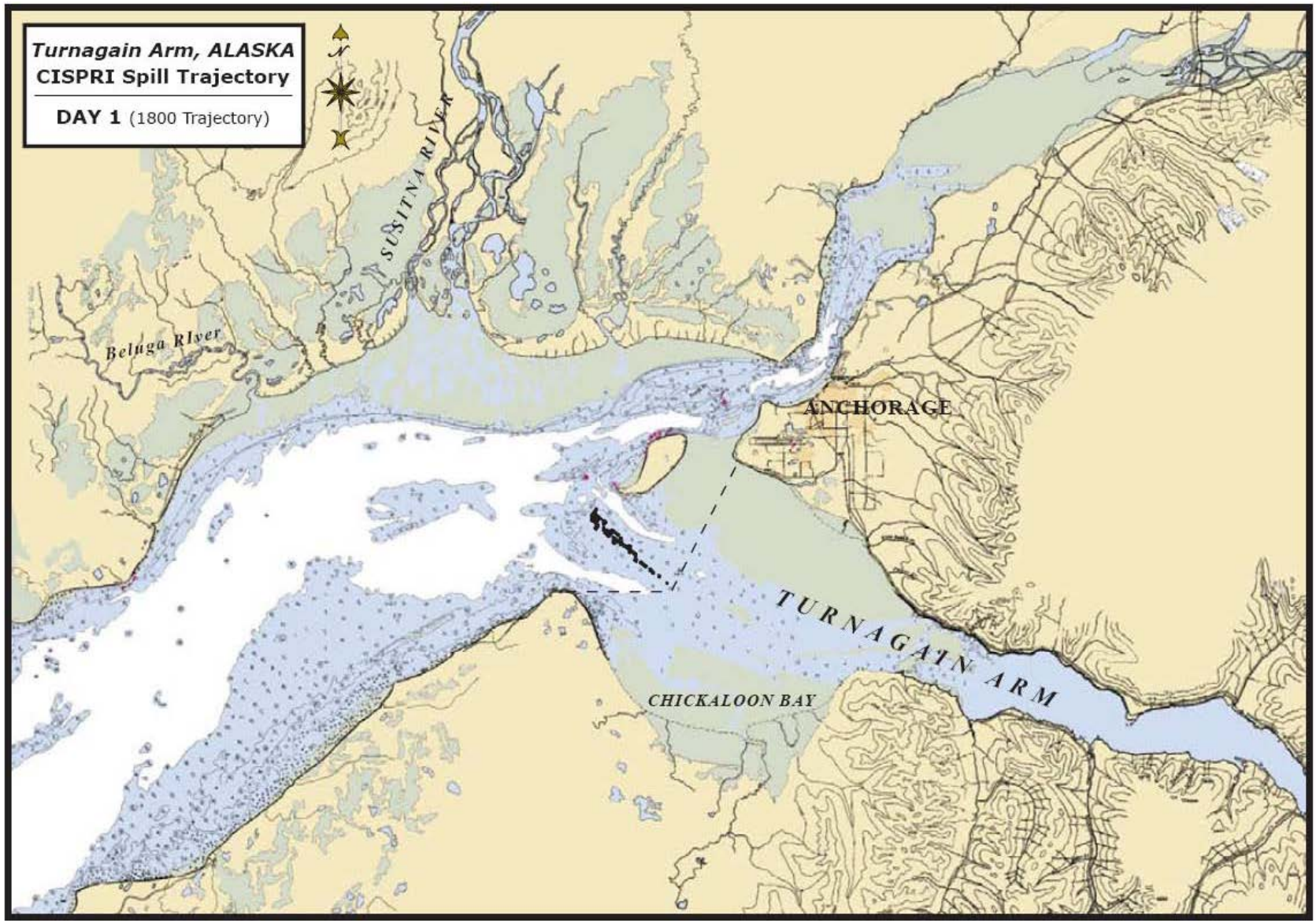

TABLE 1.6-35

RESPONSE SCENARIO #3 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 - 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 - 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
Safety	**NOT APPLICABLE FOR THIS RESPONSE SCENARIO**		• Conduct Initial Safety Assessment • Conduct Site Characterization & Air Monitoring • Establish Site Control (make recommendation to UC for Safety Zone & Air space restrictions) • Commence preparation of Site Safety Plan	CI-S-1 CI-S-2 CI-S-3 CI-S-4 CI-LP-6 CI-App –C Sec 1.3	• Review and Approve Medical Plan • Submit Site Safety Plan to U.C. for approval and provide to field responders • Establish and maintain communications with Field Site Safety (FSS) personnel	CI-App -C CI-LP-2 Sec 1.3
Notification			• Complete NRC,ADEC & SPCO notifications • Activate and mobilize CISPRI • Complete Agency and Stakeholder notifications • Establish & maintain communications with local community leaders ▪ Anchorage ▪ Kenai Borough • Establish & maintain communications with: ▪ Point Possession Native Association ▪ Kenai National Wildlife Refuge ▪ USF&W, NMFS & ADF&G • Establish Contact with land owners and set net sites • Establish & maintain communications with Tesoro Corporate Management • Establish liaison position for communications with CIRCAC	Sec 1.2	• Maintain communications with Tesoro Corporate Management (S.A. Logistics) • Maintain Agency and Stakeholder communications • Maintain communications with local community leaders ▪ Anchorage ▪ Kenai Borough • Maintain communications with: ▪ Pt. Possession Native Association ▪ Kenai National Wildlife Refuge ▪ USF&W, NMFS & ADF&G • Maintain contact with land owners and set net sites	Sec 1.2
(i) Stopping Discharge at Source & (viii) Lightering			• TAPL pumps immediately shutdown • TAPL Motor Operated Valves (MOV-5 Point Possession & MOV-6 Point Campbell) are immediately closed • Lightering–not associated with this scenario	Sec 1.6 Sec 3.1	• TAPL pumps secured • MOV's 5 & 6 to remain closed • Discharge secured – continue to monitor	Sec 1.6 Sec 3.1
(ii) Preventing or Controlling Fire Hazards			• Monitor area for any fire potential	Sec 1.3	• Monitor area for any fire potential	Sec 1.3
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points			• On-Site Responders to report any oil movement (Task Force Leaders) • Explore use of Tracking Buoys • Mobilize and deploy aerial surveillance (as needed) • Request NOAA Trajectory from FOSC	CI-TS-1 CI-TS-2 CI-TS-4	• Continue to have On-Site Responders report any oil movement • Monitor Tracking buoys (as needed) • Manage aerial surveillance (as needed) • Validate NOAA Trajectory	CI-TS-1 CI-TS-2 CI-TS-4

TABLE 1.6-35 *(continued)*

RESPONSE SCENARIO #3 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 - 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 - 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern			• Evaluate any nearby potential downstream potential areas of contamination ▪ Leaf Creek ▪ Seven Egg Creek ▪ Otter Creek • Monitor and evaluate forecasted weather information (Share with Field Ops) • Activate Shoreline Clean Up Assessment Team (SCAT) based on trajectory information	CI-SA-1 CI-SA-2 CI-SA-3 CI-App-B CI-SL-1	• Continue to evaluate any nearby potential downstream potential areas of contamination ▪ Leaf Creek ▪ Seven Egg Creek ▪ Otter Creek • Monitor and evaluate forecasted weather information (Share with Field Ops) • Deploy Shoreline Clean Up Assessment Team (SCAT) based on trajectory information	CI-SA-1 CI-SA-2 CI-SA-3 CI-App-B CI-SL-1
(vi) Spill Containment and Control Actions & (vii) Spill Recovery Procedures	**NOT APPLICABLE FOR THIS RESPONSE SCENARIO**		• Mobilize and deploy all response vessels and spill responders ▪ Activate CISPRI ▪ Activate all IRT's	CI-LP-1A CI-LP-1B CI-LP-3 CI-LP-4	• Deploy open water response vessels: ▪ 2-OSRVs/56-disc skimmer/current buster packages ▪ 2-Response/lightering barges	CI-OW-6
			• Mobilize and deploy open water response vessels ▪ 2 – OSRVs/56-disc skimmer/current buster packages ▪ 2 – Response/Lightering Barges	CI-OW-6	Deploy Nearshore response vessels: ▪ 2 – Utility Vessels/13-disc skimmers/harbor busters ▪ 2 – Mini Barges	CI-NS-1 CI-NS-2
			• Mobilize and deploy Nearshore response vessels ▪ 2 – Utility Vessels/13-disc skimmers/harbor busters ▪ 2 – Mini barges	CI-NS-1 CI-NS-2	• Deploy Shoreline Protection response vessels	CI-NS-4
			• Mobilize and deploy Shoreline Protection response vessels	CI-NS-4	• Mobilize Pipeline Repair team (Dive Team) Dive/Repair Contractor will arrange for their own specialty vessel	
			• Mobilize & Deploy aircraft support		• Mobilize & Deploy aircraft support	
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure			• Assess all potential storage needs. • KPL or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes • All recovered liquids will be transfer via the KPL Dock	CI-WM-1 CI-LP-6	• Continue to assess all potential storage needs. • KPL or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes • All recovered liquids will be transfer via the KPL Dock	CI-WM-1 CI-LP-6

TABLE 1.6-35 *(continued)*

RESPONSE SCENARIO #3 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 - 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 - 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	**NOT APPLICABLE FOR THIS RESPONSE SCENARIO**		• Environmental Unit develop Waste Management Plan/submit to U.C. for approval • Environmental Unit to prepare and submit Decanting Plan to U.C. • Establish available tankage at KPL or the Refinery for recovered oil/liquid storage. • Establish locations at KPL for temporary solid waste storage	CI-WM-1 CI-WM-2 CI-WM-4 CI-LP-6 CTM App-D	• Implement Waste Management Plan • Maintain locations at KPL for temporary solid • waste storage • Establish available tankage at KPL or the Refinery for recovered oil/liquid storage.	CI-WM-1 CI-WM-2 CI-WM-4 CI-LP-6 CTM App-D
(xi) Wildlife Protection Plan			• Notify IBRC International Bird Rescue Center • Establish contact with resource agencies • Consult with ADF&G and USF&W.	CI-W-1 CI-W-2 CI-LP-6	• Receive/Comply with permit and plan approvals • Continually assess any wildlife needs • Report all Beluga Whale sightings • Maintain communications with IBRC to ensure they are ready to deploy	CI-W-1 CI-W-2 CI-LP-6
(xii) Shoreline Cleanup			• Develop Shoreline Cleanup plan • Mobilize shoreline cleanup contractors based on SCAT information. • Mobilize transportation resources to transport responders & equipment.	CI-LP-6 CI-LP-3 CI-SL-1	• Prepare to implement Shoreline Cleanup plan • Prepare to deploy Pre-Shoreline Cleanup Assessment Teams (SCAT contractor)	CI-LP-6 CI-LP-3 CI-SL-1

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TABLE 1.6-36

RESPONSE SCENARIO #3

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY TWO

OBJECTIVES	STRATEGIES
Safety	• Continue to ensure safety of all responders • Secure response area (Air & Water)
Source Control	• Shutdown TAPL (damaged segment) until line is repaired
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Ensure effective Waste Management • Minimize shoreline impact • Prepare for shoreline cleanup • Continue permitting process
Protection of Sensitive Resources	• Identify & prioritize environmentally sensitive areas and areas of public concern • Continue to minimize oiling of sensitive areas • Continue protection of wildlife resources
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups • Continue to maintain claims process

TABLE 1.6-37

RESPONSE SCENARIO #3

TACTICAL OBJECTIVES – DAY TWO

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT ❒ Review and approve plans, applications and permits (as appropriate) ❒ Approve any prioritized sensitive areas to be protected
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue U.C. Media Briefing
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot Safety audits
PLANNING	PSC	❒ Maintain Command Post at CISPRI ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Validate trajectory information with aerial surveillance
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate permits and plans as needed ❒ Supervise solid and liquid waste management locations ❒ Continue to prioritize sensitive area protection needs ❒ Continue to assess wildlife needs
OPERATIONS	OPS	❒ Continue to implement and evaluate surveillance options ❒ Manage Open-Water Response Operations ❒ Manage Near-Shore Response Operations ❒ Manage Shoreline Protection Operations ❒ Manage pipeline repair operations (as needed) ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area (Port of Anchorage & OSK Dock) ❒ Continue to manage solid and liquid waste
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Activate pipeline repair crews and equipment as needed ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Claims Tracking ❒ Continue Cost Tracking

Figure 1.6-7

RESPONSE SCENARIO #3

TURNAGAIN ARM, ALASKA CISPRI SPILL TRAJECTORY (0200) - DAY 2

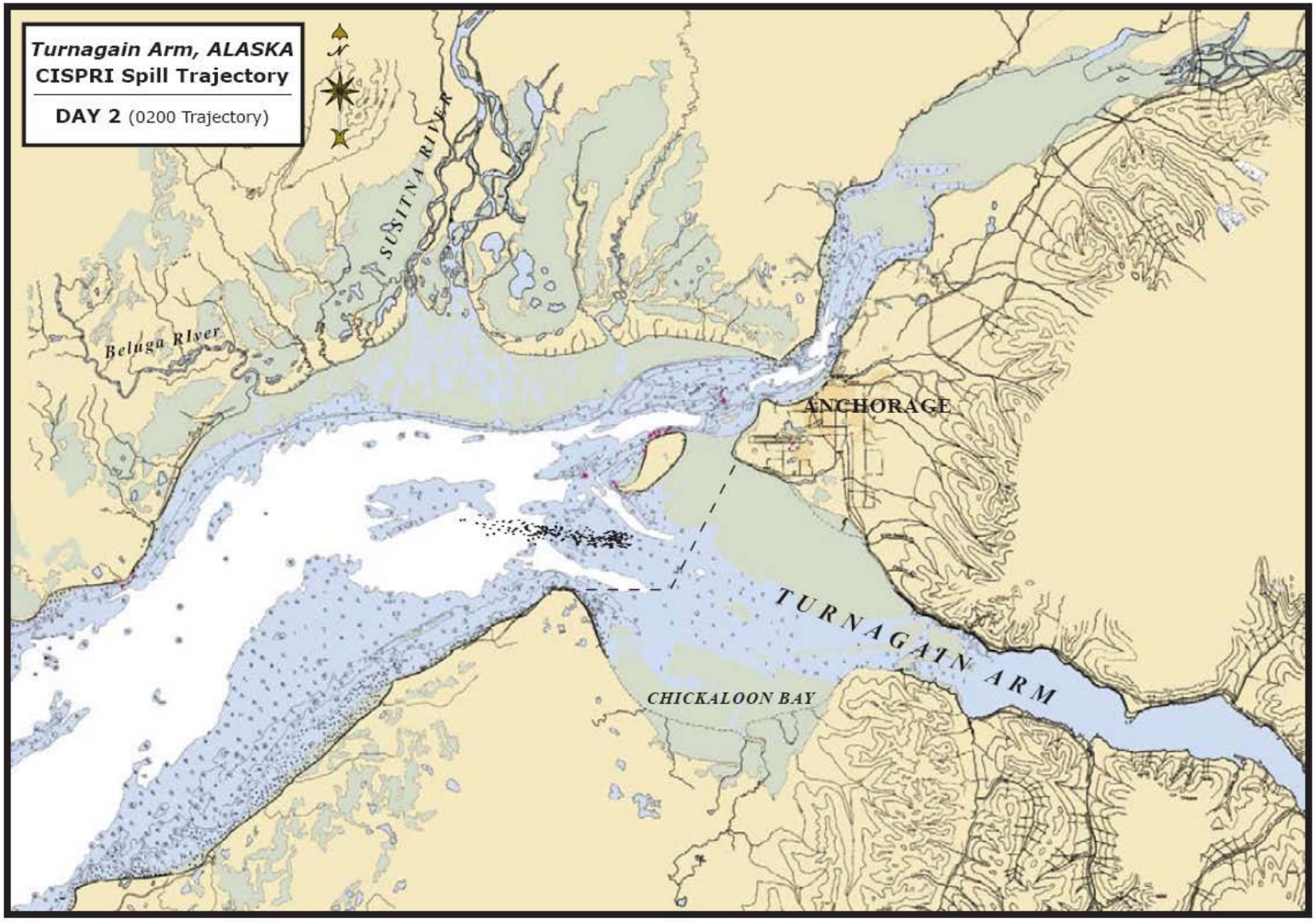

TABLE 1.6-38

RESPONSE SCENARIO #3

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	**Night Shift**
Safety	• Continue site characterization. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of ongoing operations.	• Continue site characterization. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured – continue to monitor potential for spill escaping containment to Cook Inlet	• Source secured – continue to monitor potential for spill escaping containment to Cook Inlet
(ii) Preventing or Controlling Fire Hazards	• Continuously monitor area for any fire potential	• Continuously monitor area for any fire potential
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have On-Site Responders report any oil movement • Continue to monitor Tracking buoys (as needed) • Continue to manage aerial surveillance (as needed) • Continue to validate NOAA Trajectory with aerial observations	• Continue to have On-Site Responders report any oil movement • Continue to monitor Tracking buoys (as needed) • Continue to manage aerial surveillance (as needed) • Continue to validate NOAA Trajectory with aerial observations
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information (Share with Field Ops) • Continue to deploy Shoreline Clean Up Assessment Team (SCAT) based on trajectory information	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information (Share with Field Ops) • Continue to deploy Shoreline Clean Up Assessment Team (SCAT) based on trajectory information

TABLE 1.6-38 (Continued)

RESPONSE SCENARIO #3

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	**Night Shift**
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Continue to manage open water response vessels: ▪ OSRVs w/ 56-disc skimmer/current buster packages ▪ Response/Lightering Barges	• Continue to manage open water response vessels: ▪ OSRVs w/ 56-disc skimmer/current buster packages ▪ Response/Lightering Barges
	• Continue to manage Nearshore response vessels: ▪ Utility Vessels/13-disc skimmer/harbor buster packages ▪ Mini barges	• Continue to manage Nearshore response vessels: ▪ Utility Vessels/13-disc skimmer/harbor buster packages ▪ Mini barges
	• Continue to manage Shoreline Protection response vessels ▪ Class 4 vessels (4)	• Continue to manage Shoreline Protection response vessels ▪ Class 4 vessels (4)
	• Continue to manage Pipeline Repair team	• Continue to manage Pipeline Repair team
	• Continue to manage aircraft support	• Continue to manage aircraft support
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Continually assess all potential storage needs. • Continue to supply portable or fixed tankage for storage of product and volume estimation purposes at KPL or Refinery • All recovered liquids will be transfer via KPL Dock	• Continually assess all potential storage needs. • Continue to supply portable or fixed tankage for storage of product and volume estimation purposes at KPL or Refinery • All recovered liquids will be transfer via KPL Dock
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• Continue to implement Waste Management Plan • Maintain locations at KPL for temporary solid waste storage • Establish available tankage at KPL or the Refinery for recovered oil/liquid storage. • Properly segregate waste per waste Management Plan.	• Continue to implement Waste Management Plan • Maintain locations at KPL for temporary solid waste storage • Establish available tankage at KPL or the Refinery for recovered oil/liquid storage. • Properly segregate waste per waste Management Plan.
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals • Alert day shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Continue to maintain communications with IBRC • Report all Beluga Whale sightings	• Comply with permit and plan approvals • Alert night shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Continue to maintain communications with IBRC • Report all Beluga Whale sightings
(xii) Shoreline Cleanup	• Continue SCAT surveys • Continue to maintain shoreline cleanup contractors in ready status. • Prepare to implement Shoreline Cleanup plan	• Continue SCAT surveys • Continue to maintain shoreline cleanup contractors in ready status. • Prepare to implement Shoreline Cleanup plan

TABLE 1.6-39

RESPONSE SCENARIO #3

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY THREE

OBJECTIVES	STRATEGIES
Safety	• Continue to ensure safety of all responders • Secure response area (Air & Water)
Source Control	• Shutdown TAPL (damaged segment) until line is repaired
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Ensure effective Waste Management • Minimize shoreline impact • Prepare for shoreline cleanup • Continue permitting process
Protection of Sensitive Resources	• Identify & prioritize environmentally sensitive areas and areas of public concern • Continue to minimize oiling of sensitive areas • Continue protection of wildlife resources
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups • Continue to maintain claims process

TABLE 1.6-40

RESPONSE SCENARIO #3

TACTICAL OBJECTIVES – DAY THREE

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT ❒ Review and approve plans, applications and permits (as appropriate) ❒ Approve any prioritized sensitive areas to be protected
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue U.C. Media Briefing
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot Safety audits
PLANNING	PSC	❒ Maintain Command Post at CISPRI ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Validate trajectory information with aerial surveillance
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate permits and plans as needed ❒ Supervise solid and liquid waste management locations ❒ Continue to prioritize sensitive area protection needs ❒ Continue to assess wildlife needs
OPERATIONS	OPS	❒ Continue to implement and evaluate surveillance options ❒ Manage Open-Water Response Operations ❒ Manage Near-Shore Response Operations ❒ Manage Shoreline Protection Operations ❒ Manage pipeline repair operations (as needed) ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area (Port of Anchorage & OSK Dock) ❒ Continue to manage solid and liquid waste
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Activate pipeline repair crews and equipment as needed ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Claims Tracking ❒ Continue Cost Tracking

Figure 1.6-8

RESPONSE SCENARIO #3

TURNAGAIN ARM, ALASKA CISPRI SPILL TRAJECTORY (0600) – DAY 3

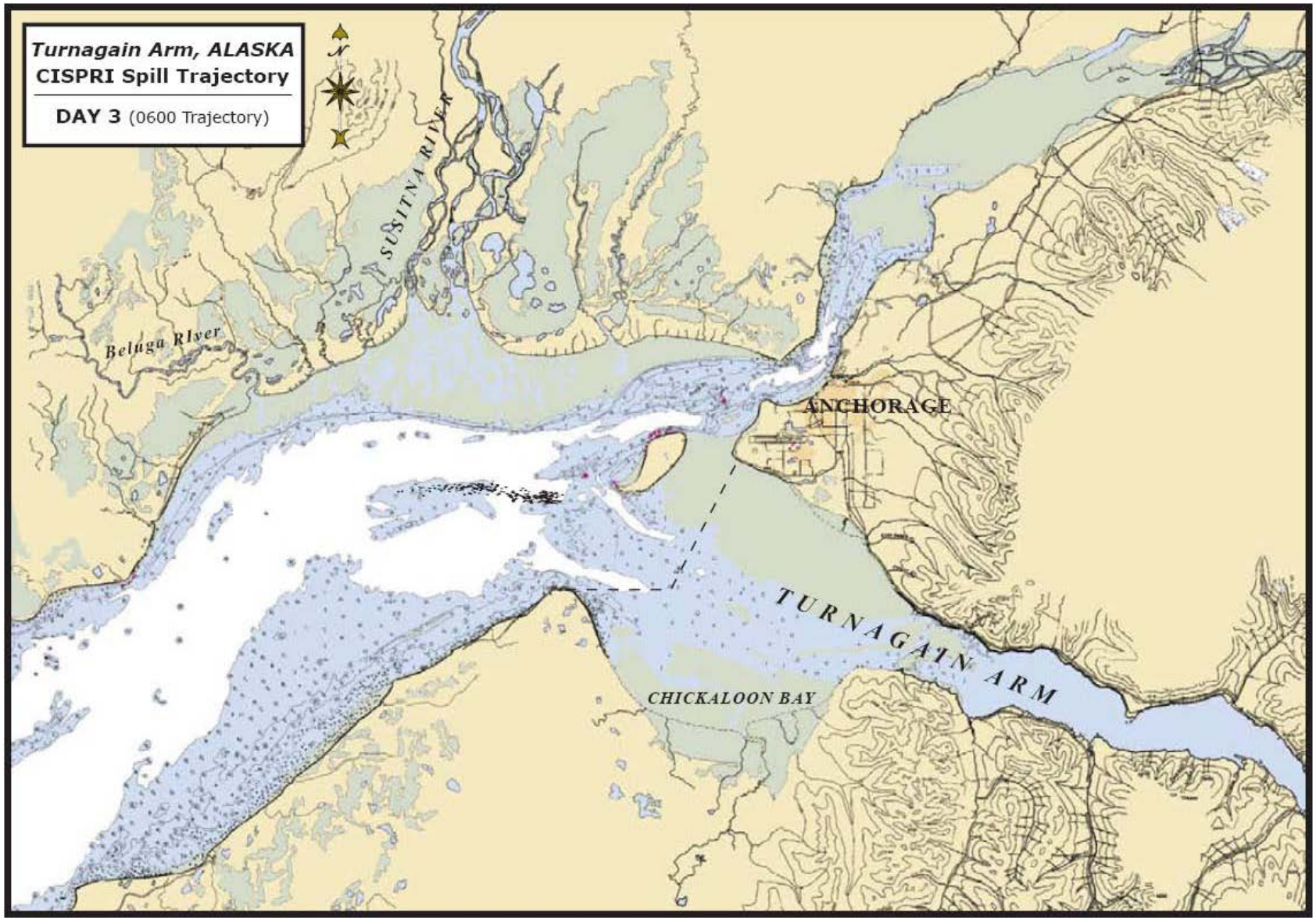

TABLE 1.6-41

RESPONSE SCENARIO #3

SCENARIO STRATEGY – DAY THREE

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	**Night Shift**
Safety	• Continue site characterization. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of ongoing operations.	• Continue site characterization. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured – continue to monitor potential for spill escaping containment to Cook Inlet	• Source secured – continue to monitor potential for spill escaping containment to Cook Inlet
(ii) Preventing or Controlling Fire Hazards	• Continuously monitor area for any fire potential	• Continuously monitor area for any fire potential
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have On-Site Responders report any oil movement • Continue to monitor Tracking buoys (as needed) • Continue to manage aerial surveillance (as needed) • Continue to validate NOAA Trajectory with aerial observations	• Continue to have On-Site Responders report any oil movement • Continue to monitor Tracking buoys (as needed) • Continue to manage aerial surveillance (as needed) • Continue to validate NOAA Trajectory with aerial observations
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information (Share with Field Ops) • Continue to deploy Shoreline Clean Up Assessment Team (SCAT) based on trajectory information	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information (Share with Field Ops) • Continue to deploy Shoreline Clean Up Assessment Team (SCAT) based on trajectory information

TABLE 1.6-41 (Continued)

RESPONSE SCENARIO #3

SCENARIO STRATEGY – DAY THREE

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Continue to manage open water response vessels: ▪ OSRVs w/56 disc skimmer/current buster packages ▪ Response/Lightering Barges	• Continue to manage open water response vessels: ▪ OSRVs w/56 disc skimmer/current buster packages ▪ Response/Lightering Barges
	• Continue to manage Nearshore response vessels: ▪ Utility Vessels w/13-disc skimmer/harbor buster packages ▪ Mini barges	• Continue to manage Nearshore response vessels: ▪ Utility Vessels w/13-disc skimmer/harbor buster packages ▪ Mini barges
	• Continue to manage Shoreline Protection response vessels ▪ Class 4 Vessels (4)	• Continue to manage Shoreline Protection response vessels ▪ Class 4 Vessels (4)
	• Continue to manage Pipeline Repair team	• Continue to manage Pipeline Repair team
	• Continue to manage aircraft support	• Continue to manage aircraft support
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Continually assess all potential storage needs. • Continue to supply portable or fixed tankage for storage of product and volume estimation purposes at KPL or Refinery • All recovered liquids will be transferred via KPL Dock	• Continually assess all potential storage needs. • Continue to supply portable or fixed tankage for storage of product and volume estimation purposes at KPL or Refinery • All recovered liquids will be transferred via KPL Dock
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• Continue to implement Waste Management Plan • Maintain locations at KPL for temporary solid waste storage • Maintain tankage at KPL or the Refinery for recovered oil/liquid storage. • Segregate waste per waste Management Plan.	• Continue to implement Waste Management Plan • Maintain locations at KPL for temporary solid waste storage • Maintain tankage at KPL or the Refinery for recovered oil/liquid storage. • Segregate waste per waste Management Plan.

TABLE 1.6-41 (Continued)

RESPONSE SCENARIO #3

SCENARIO STRATEGY – DAY THREE

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals • Alert day shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Continue to maintain communications with IBRC • Report all Beluga Whale sightings	• Comply with permit and plan approvals • Alert night shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Continue to maintain communications with IBRC • Report all Beluga Whale sightings
(xii) Shoreline Cleanup	• Continue SCAT surveys • Continue to maintain shoreline cleanup contractors in ready status. • Prepare to implement Shoreline Cleanup plan	• Continue SCAT surveys • Continue to maintain shoreline cleanup contractors in ready status. • Prepare to implement Shoreline Cleanup plan

TABLE 1.6-42

RESPONSE SCENARIO #3

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY FOUR & BEYOND

OBJECTIVES	STRATEGIES
Safety	• Continue to ensure safety of all responders • Secure response area (Air & Water)
Source Control	• Shutdown TAPL (damaged segment) until line is repaired
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Ensure effective Waste Management • Minimize shoreline impact • Prepare for shoreline cleanup • Continue permitting process
Protection of Sensitive Resources	• Identify & prioritize environmentally sensitive areas and areas of public concern • Continue to minimize oiling of sensitive areas • Continue protection of wildlife resources
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups • Continue to maintain claims process
Management	• Commence daily communications with Unified Command via teleconference • Commence project based response and pipeline repair operations • Report any changes in oil sightings, response operations or repair operations

TABLE 1.6-43

RESPONSE SCENARIO #3

TACTICAL OBJECTIVES – DAY FOUR & BEYOND

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Scale down response effort and turn into a project based response
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue JIC daily Media updates ❒ Prepare final U.C. Media Briefing
	SO	❒ Maintain Site Safety Plan (reevaluate)
PLANNING	PSC	❒ Maintain Command Post at CISPRI (Look to downsize IMT or move CP to Refinery/KPL) ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Validate trajectory information with aerial surveillance
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate permits and plans as needed ❒ Supervise solid and liquid waste management locations ❒ Continue to prioritize sensitive area protection needs ❒ Continue to assess wildlife needs
OPERATIONS	OPS	❒ Continue to implement and evaluate surveillance options (DEMOB as needed) ❒ Manage Open-Water Response Operations (DEMOB as needed) ❒ Manage Near-Shore Response Operations (DEMOB as needed) ❒ Manage Shoreline Protection Operations (DEMOB as needed) ❒ Manage pipeline repair operations (as needed) (DEMOB as needed) ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area (Port of Anchorage & OSK Dock) (DEMOB as needed) ❒ Continue to manage solid and liquid waste
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Activate pipeline repair crews and equipment as needed ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Claims Tracking ❒ Continue Cost Tracking

TABLE 1.6-44

RESPONSE SCENARIO #3

SCENARIO STRATEGY – DAY FOUR & BEYOND

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
Safety	• Continue site characterization. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of ongoing operations. • Supervise demobilization of responders & equipment	• Continue site characterization. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue communications with Field Site Safety (FSS) • Conduct safety audit of ongoing operations. • Supervise demobilization of responders & equipment
(i) Stopping Discharge at Source & (viii) Lightering	• Source secured – continue to monitor potential for spill escaping containment to Cook Inlet	• Source secured – continue to monitor potential for spill escaping containment to Cook Inlet
(ii) Preventing or Controlling Fire Hazards	• Continuously monitor area for any fire potential	• Continuously monitor area for any fire potential
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have On-Site Responders report any oil movement • Continue to monitor Tracking buoys (as needed) • Continue to manage aerial surveillance (as needed) • Continue to validate NOAA Trajectory with aerial observations	• Continue to have On-Site Responders report any oil movement • Continue to monitor Tracking buoys (as needed) • Continue to manage aerial surveillance (as needed) • Continue to validate NOAA Trajectory with aerial observations
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information (Share with Field Ops) • Continue to deploy Shoreline Clean Up Assessment Team (SCAT) based on trajectory information	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information (Share with Field Ops) • Continue to deploy Shoreline Clean Up Assessment Team (SCAT) based on trajectory information

TABLE 1.6-44 (Continued)

RESPONSE SCENARIO #3

SCENARIO STRATEGY – DAY FOUR & BEYOND

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Continue to manage open water response vessels	• Continue to manage open water response vessels
	• Continue to manage Nearshore response vessels	• Continue to manage Nearshore response vessels
	• Continue to manage Shoreline Protection response vessels	• Continue to manage Shoreline Protection response vessels
	• Continue to manage Pipeline Repair team	• Continue to manage Pipeline Repair team
	• Continue to manage aircraft support	• Continue to manage aircraft support
	• Prepare for orderly demobilization as needed	• Prepare for orderly demobilization as needed
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Continually assess all potential storage needs. • Continue to supply portable or fixed tankage for storage of product and volume estimation purposes at KPL or Refinery • All recovered liquids will be transfer via KPL Dock	• Continually assess all potential storage needs. • Continue to supply portable or fixed tankage for storage of product and volume estimation purposes at KPL or Refinery • All recovered liquids will be transfer via KPL Dock
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• Continue to implement Waste Management Plan • Maintain locations at KPL for temporary solid waste storage • Maintain tankage at KPL or the Refinery for recovered oil/liquid storage. • Properly segregate waste per waste Management Plan.	• Continue to implement Waste Management Plan • Maintain locations at KPL for temporary solid waste storage • Maintain tankage at KPL or the Refinery for recovered oil/liquid storage. • Properly segregate waste per waste Management Plan.
(xi) Wildlife Protection Plan	• Comply with permit and plan approvals • Alert day shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Continue to maintain communications with IBRC • Continue to report all Beluga Whale sightings	• Comply with permit and plan approvals • Alert night shift to report oiled bird sightings to CP. • Continually assess any wildlife needs • Continue to maintain communications with IBRC • Report all Beluga Whale sightings
(xii) Shoreline Cleanup	• Continue SCAT surveys	• Continue SCAT surveys

Table 1.6-45

Response Scenario #3

EXPECTED TIMELINE FOR RESPONSE ACTIONS (18 AAC 75.425(e)(1)(F)

Day	Tactic	Quantity	Unit Rate (bph)	Hours	Daily Volume (bbl)	Approximate Cumulative Volume (bbl)
1	CI-OW-6	2	354	3	2,124	
	CI-NS-2	2	79	3	474	
				Day 1 Total	**2,598**	**2,600**
2	CI-OW-6	2	354	10*	7080	
	CI-NS-2	2	79	3*	474	
	CI-NS-1	2	79	*		
				Day 2 Total	**7,554**	**10,000**
3	CI-OW-6	2	354	*		
	CI-NS-2	2	79	*		
	CI-NS-1	2	79	*		
				Day 3 Total	*****	**10,000**

*Continued operation as to be conducted as required by site specific conditions. These recovery timelines are estimates based on CISPRI Tech manual established rates. Specific asset allocation would be based on actual conditions. Additional recovery resources are available if warranted.

1.6.2.4 RESPONSE SCENARIO # 4 TESORO ALASKA PIPELINE (ANCHORAGE)

The attached scenario was developed in accordance with 18 AAC 75.425(e)(1)(F) and 18 AAC 75.445(d). It describes the objectives, strategies and tactics that would be used to respond to a hypothetical oil spill at a particular time and location within the Tesoro Cook Inlet operating area under assumed conditions.

The actions illustrated in the scenario may be used as a general guide for a discharge of any size. The scenario illustrates decisions made and actions taken for this response:

- **General Objectives** are presented in Tables 1.6-10 (A-D).
- **Tactical Objectives** are presented in Tables 1.6-11 (A-D).
- **Scenario Strategies** addressing regulation 18 AAC 75.425(e)(1)(F) (i-xii) are presented in Tables 1.6-12 (A-D).
- **ICS Organization Chart** is also included to show how the Tesoro Incident Management Team would fill out the Command Post (Figure 1.6-6).

This spill scenario depicts representative oil spill response activities for an oil spill originating from the Tesoro Alaska Refined Products Pipeline . It is designed to demonstrate the ability to respond to an event of this size and location.

RESPONSE TYPE:	TYPE / AMOUNT
On Land Response (CISPRI / TESORO)	Diesel - 2,500 barrels

SOURCE

A third-party contractor using a backhoe working in the vicinity of Northern Lights Blvd, in front of the Turnagain Elementary School, fails to follow proper line locate procedures and strikes the Tesoro Alaska pipeline. The Tesoro Alaska Pipeline leak detection system detected a pressure drop and sounded a leak detection alarm. The system is monitored on a 24-7 basis in both the Anchorage and Kenai Refinery. The backhoe operator also calls 911 to report the incident and spill.

TIME:	0830	WIND:	5 W
SEASON:	Fall (October)	TEMPERATURE:	35 Degrees
VISIBILITY:	Unlimited – Clear	LOCATION:	Mile 65 – Tesoro Alaska Pipeline Turnagain Elementary School

ASSUMPTIONS:

- Safe to commence response operations following site assessment by Anchorage Fire Department.
- The cause of the spill has no impact on the size or duration of the spill event.
- Ultra Low Sulfur Diesel # 2 (ULSD#2) is being pumped from the refinery to Anchorage at a rate of 1,875 barrels per hour.
- Evaporation and emulsification are not considered.
- No injuries are associated with the failure of the pipeline.

Oil Concentration: Majority of the oil spill is located in an area of the pipeline right-of-way within the immediate excavation site. There are nearby population centers including Turnagain Elementary School (TES). The area around the pipeline failure has a visible concentration of oil with small fingers of oil starting to flow out of the spill site location.

SUPPORTING ACTION TAKEN:

Notification: The Operations Manager and the Tesoro Incident Commander are notified by the pipeline area supervisors who recognized there is a problem because of a pipeline pressure drop. The Tesoro Alaska Pipeline leak detection system detected a pressure drop and sounded a leak detection alarm. The system is monitored on a 24-7 basis in both the Anchorage and Kenai Refinery. The Anchorage and Kenai pipeline operators estimate a spill volume by comparing pumping data and tank level changes over the telephone. The operators are not able to determine line drainage rate. Tesoro is also contacted by the Anchorage Fire Department that they are responding.

The Anchorage Fire Department (AFD) responds as the initial Incident Commander. The AFD will conduct an initial assessment with their HAZMAT unit. They will assess the following:

- Hot zone
- Evacuation (Turnagain Elementary School and adjacent homes)
- Site traffic control (Northern Lights Blvd, Seppala Drive and McKenzie Drive)
- Extent and source of the leak
- Notification
- Need for fire suppression or vapor control.

The first priority is public safety and the safety of the responders. The Tesoro Incident Commander instructs the Liaison Officer to notify, ADEC, SPCO, EPA, MMS, DOT, and the Municipality of Anchorage Emergency Services immediately. Other agency notifications will be made following the emergency response. This notification may include USF&W, N and ADF&G.

Activation of Spill Management Team: The Tesoro Incident Commander activates the Initial Assessment Team and select members of the Tesoro Spill Management Team, Immediate Response Team and CISPRI.

Tesoro management San Antonio is notified of the spill. Any additional support will be determined once the Unified Command has an assessment of the situation.

The Incident Command Center is initially established at the Turnagain elementary School. Representatives of the Team will locate in Anchorage once the initial assessment is completed.

Initial Assessment: The Tesoro Incident Commander instructs 2 members of the Initial Assessment Team to make a survey of the spill site and record and call in their observations. The Initial Assessment Team reports the spill location within 1/2 hour via radio to the Incident Commander and relays information to the Command Post. It takes 1 hour for the assessment team to complete their task and report to the Command Post. Simultaneously a meeting is held with the Incident Commanders; Safety Officer, Deputy Incident Commanders; and the Operations, Planning, Logistics, and Financial Section Chiefs. An initial response plan is formulated and initiated with concurrence of the Anchorage Fire Department.

Figure 1.6-9
Scenario #4
TESORO ORGANIZATION CHART

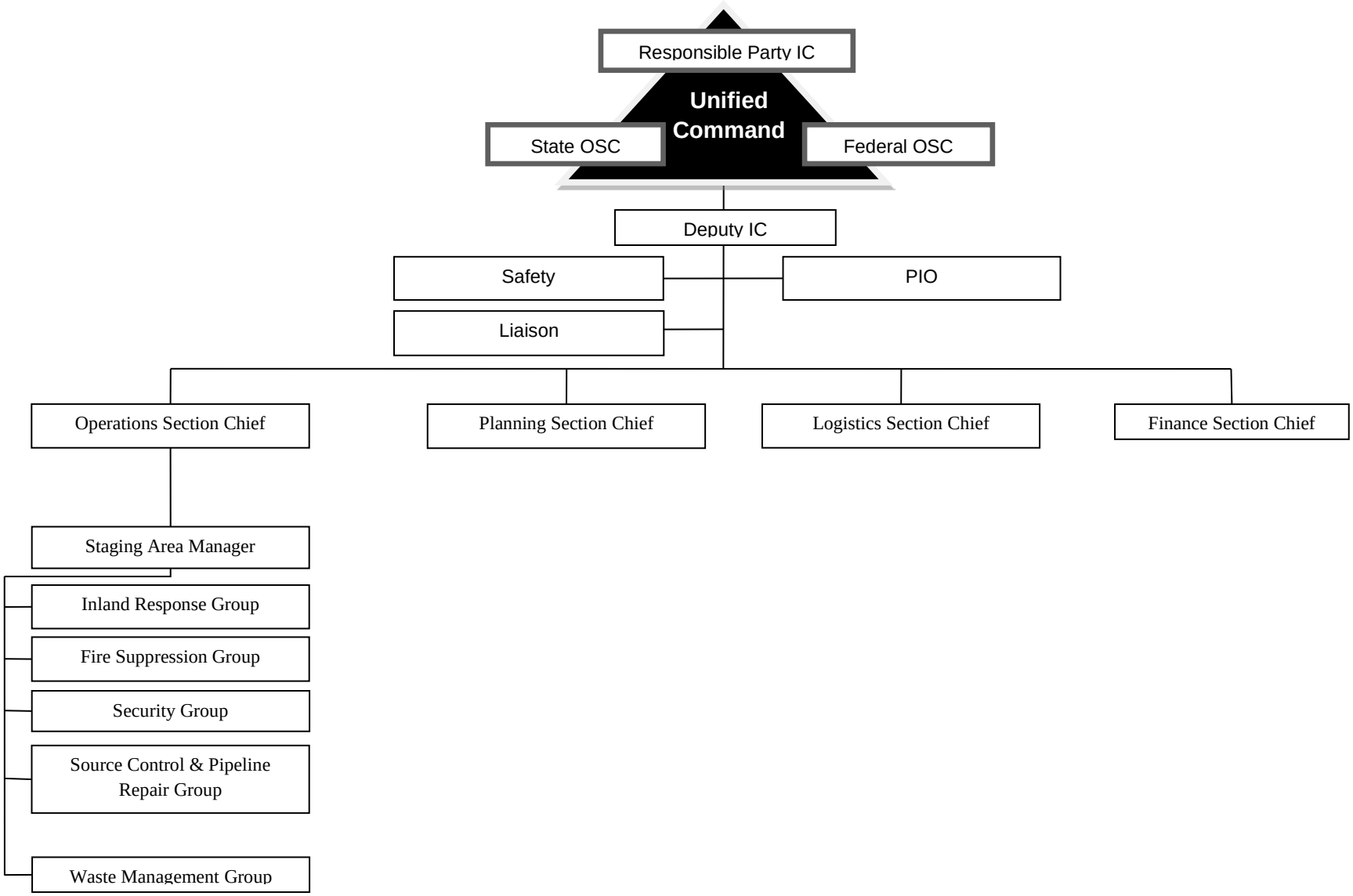

TABLE 1.6-46

RESPONSE SCENARIO #4

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY 1

OBJECTIVES	STRATEGIES
Safety	• Ensure safety of the public and responders • Ensure safety of students and faculty of Turnagain Elementary School – evaluate evacuation • Secure response area
Source Control	• Evaluate ability to secure leak – Secure MOVs • Shutdown pipeline transfer operations to the Port of Anchorage • Investigate a controlled opening MLV 9 for drainage to the Port
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Ensure effective Waste Management • Minimize spread of oil • Prepare required permitting
Protection of Sensitive Resources	• Minimize oiling of sensitive areas • Maintain on site fire suppression capabilities
Public Outreach	• Communicate spill response information to the public • Communicate spill response information to community leaders and stakeholder groups • Communicate with Anchorage Schools District • Establish claims process

TABLE 1.6-47

RESPONSE SCENARIO #4
TACTICAL OBJECTIVES – DAY 1

COMMAND & COMMAND STAFF

0930 – 1200	1200 – 1800	1800 – 0600
UNIFIED COMMAND ☐ Establish Command Post at Turnagain elementary school ☐ Establish Unified Command ☐ Develop Goals & Objectives ☐ Establish Direct Communications with (responders)	**UNIFIED COMMAND** ☐ Maintain Direct Communications with (responders) ☐ Communicate changes of direction or priorities with IMT & Responders (as appropriate)	**UNIFIED COMMAND** ☐ Review Goals & Objectives ☐ Communicate changes of direction or priorities with IMT & Responders (as appropriate) ☐ Continue to solicit input from IMT / Field
LIAISON ☐ Complete Agency Notification ☐ Establish Community notification and identify stakeholder contacts including: ☐ Local Leaders ☐ Legislature ☐ Stakeholder Groups ☐ Tesoro Management ☐ Anchorage School District ☐ Establish contact schedule	**LIAISON** ☐ Conduct Agency updates ☐ Continue Community & stakeholder updates ☐ Continue dialog with Anchorage School District ☐ Maintain contact schedule	**LIAISON** ☐ Conduct Agency updates ☐ Continue dialog with Community contacts ☐ Continue dialog with Anchorage School District ☐ Maintain contact schedule
PUBLIC INFORMATION ☐ Prepare initial news release ☐ Schedule & Set up Media Conference	**PUBLIC INFORMATION** ☐ Prepare UC for Media Conference ☐ Set up Community Briefing schedule ☐ Hold U.C. Media briefing	**PUBLIC INFORMATION** ☐ Set up Community Briefing ☐ Conduct Community Briefing ☐ Maintain JIC location
SAFETY ☐ Provide Initial Site Safety Plan ☐ Conduct Site Characterization ☐ Mobilize and deploy Field Site Safety ☐ Commence preparation of Site Safety Plan	**SAFETY** ☐ Continue air monitoring ☐ Maintain contact w/ Field Site Safety ☐ Submit Site Safety Plan to UC for approval	**SAFETY** ☐ Continue air monitoring ☐ Maintain contact w/ Field Site Safety

PLANNING SECTION

0930 – 1200	1200 – 1800	1800 – 0600
PLANNING SECTION ☐ Establish the following Units • DOC • RES • SIT • ENV (Unit) ☐ Establish Meeting Schedule ☐ Facilitate all Meetings ☐ Identify nighttime operations in IAP ☐ Commence preparation of IAP	**PLANNING SECTION** ☐ Maintain Meeting Schedule ☐ Continue to facilitate all meetings ☐ Identify any special equipment needs ☐ Identify nighttime operations in IAP ☐ Submit IAP for U.C. approval	**PLANNING SECTION** ☐ Maintain Meeting Schedule ☐ Facilitate all Meetings ☐ Continue assessment of any special equipment needs

TABLE 1.6-47 (continued)

RESPONSE SCENARIO #4

TACTICAL OBJECTIVES – DAY 1

PLANNING SECTION

0930 – 1200	1200 – 1800	1800 – 0600
DOCUMENTATION UNIT ☐ Establish Records procedures ☐ Prepare Incident Action Plan (IAP) ☐ Provide duplication services ☐ Secure all original documentation	**DOCUMENTATION UNIT** ☐ Maintain all spill records and files ☐ Prepare Incident Action Plan (IAP) ☐ Provide duplication services ☐ Secure all original documentation	**DOCUMENTATION UNIT** ☐ Continue to maintain all records and files ☐ Distribute Incident Action Plan (IAP) ☐ Continue to provide duplication services ☐ Secure all original documentation
RESOURCE UNIT ☐ Develop Equipment Status T-Cards ☐ Develop Personnel Status T-Cards ☐ Prepare Requisitions ☐ Complete ORG Chart (ICS-207)	**RESOURCE UNIT** ☐ Maintain Equipment Status T-Cards ☐ Maintain Personnel Status T-Cards ☐ Prepare Requisitions ☐ Complete ORG Chart (ICS-207)	**RESOURCE UNIT** ☐ Maintain Equipment Status T-Cards ☐ Maintain Personnel Status T-Cards ☐ Prepare Requisitions ☐ Revise ORG Chart (ICS-207)
SITUATION UNIT ☐ Establish Display protocols ☐ Establish information protocols ☐ Post and Manage CP displays ☐ Prepare weather & any potential trajectory information	**SITUATION UNIT** ☐ Manage information protocols ☐ Continue to update & manage displays ☐ Monitor and update weather & any potential trajectory information	**SITUATION UNIT** ☐ Manage information protocols ☐ Continue to update & manage displays ☐ Monitor and update weather & any potential trajectory information
ENVIRONMENTAL UNIT ☐ Prepare applicable Permits & Applications ☐ Prepare Waste Management Plan	**ENVIRONMENTAL UNIT** ☐ Submit applicable Permits & Applications ☐ Submit Waste Management Plan	**ENVIRONMENTAL UNIT** ☐ Continue to review applicable Permits & Applications ☐ Implement Waste Management Plan

OPERATIONS SECTION

Mobilize / Deploy:	Deploy / Manage:	Manage:
Land Based Response ☐ Diaphragm Pumps ☐ Fast Tanks (4) ☐ Vac Truck (2) ☐ SuperSucker (1) ☐ Tank Truck (1) ☐ Excavator (1) ☐ Small Loader w/backhoe (1) ☐ Lined dumpster (for solid waste) ☐ Assorted Sorbent boom, sweeps & pads ☐ Barriers and temporary fencing	**Land Based Response** ☐ Diaphragm Pumps ☐ Fast Tanks (4) ☐ Vac Truck (2) ☐ SuperSucker (1) ☐ Tank Truck (1) ☐ Excavator (1) ☐ Small Loader w/backhoe (1) ☐ Lined dumpster (for solid waste) ☐ Assorted Sorbent boom, sweeps & pads ☐ Barriers and temporary fencing ☐ Develop ICS-204 to include any night time operations.	**Land Based Response** ☐ Diaphragm Pumps ☐ Fast Tanks (4) ☐ Vac Truck (2) ☐ SuperSucker (1) ☐ Tank Truck (1) ☐ Excavator (1) ☐ Small Loader w/backhoe (1) ☐ Lined dumpster (for solid waste) ☐ Assorted Sorbent boom, sweeps & pads ☐ Barriers and temporary fencing ☐ Manage select night time operations.
Supervise ☐ Land Based Recovery operations ☐ Staging Area Management ☐ On Site Security ☐ Fire Suppression Units (AFD) ☐ Public Safety Units (APD/Contract Security)	**Supervise** ☐ Land Based recovery operations ☐ Waste Management operations ☐ Pipeline repair operations ☐ Staging Area Management ☐ Fire Suppression Units (AFD) ☐ Public Safety Units (APD/Contract Security)	**Supervise** ☐ Land Based recovery operations ☐ Waste Management operations ☐ Pipeline repair operations ☐ Staging Area Management ☐ Fire Suppression Units (AFD) ☐ Public Safety Units (APD/Contract Security)

TABLE 1.6-47 (continued)

RESPONSE SCENARIO #4

TACTICAL OBJECTIVES – DAY 1

LOGISTICS SECTION

0930 – 1200	1200 – 1800	1800 – 0600
☐ Establish Command Post	☐ Maintain IRT & SNRT personnel	☐ Maintain IRT & SNRT personnel
☐ Establish Staging Area	☐ Maintain contracted responders if needed	☐ Maintain contracted responders if needed
☐ Turnagain Elementary parking area	☐ Continue to maintain Meals and Services	☐ Continue to maintain Meals and Services
☐ Mobilize Tesoro IRTs	☐ Expand and maintain Lodging as needed	☐ Expand and maintain Lodging as needed
☐ Provide Meals and Services	☐ Maintain transportation functions	☐ Set up for incidentals Lights, Visqueen, etc
☐ Provide transportation for responders & equipment	☐ Set up for incidentals Lights, Visqueen, etc	☐ Maintain transportation functions
☐ Prepare Communications Plan	☐ Maintain Communications Network	☐ Maintain Communications Network
☐ Order incidentals including Lights, Visqueen, etc	☐ Process all requisitions	☐ Continue to process all requisitions
☐ Identify available Firefighting Foam supplies with AFD as a precaution.		

FINANCE SECTION

0930 – 1200	1200 – 1800	1800 – 0600
☐ Implement system for meeting financial needs	☐ Maintain system for meeting financial needs	☐ Maintain system for meeting financial needs
☐ Establish & Publish Claims Number	☐ Maintain Cost tracking	☐ Maintain Cost tracking
☐ Initiate Cost tracking		

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TABLE 1.6-48

RESPONSE SCENARIO #4 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 - 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 - 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
Safety	• Conduct Initial Safety Assessment • Conduct Site Characterization • Establish Site Control • Commence preparation of Site Safety Plan • If evacuation is warranted, evacuate students to the rear of the school • Discuss closing Turnagain Elementary School with Anchorage School District	CI-S-1 CI-S-2 CI-S-3 CI-S-4 CI-LP-6 CI-App –C	• Maintain continuous air monitoring activities • Review and Approve Medical Plan • Submit Site Safety Plan to U.C. for approval and provide to field responders • Continue to access the need to close the Turnagain Elementary School with Anchorage School District	CI-App -C CI-LP-2 Sec 1.3	• Maintain continuous air monitoring activities • Expand/review Site Safety Plan for next operational period as needed • Continue to monitor field operations (maintain communications)	CI-App -C CI-LP-2 Sec 1.3
Notification	• Completed NRC, ADEC & SPCO notifications • Activate and mobilize CISPRI as needed • Complete Agency and Stakeholder notifications • Establish direct dialog with Anchorage School District • Establish & maintain communications with local community leaders ▪ Establish and maintain direct contact with: ▪ Anchorage Fire Department (AFD) ▪ Anchorage Police Department (APD) ▪ Anchorage Waste Water & Utilities (AWWU) ▪ Other utilities • Establish & maintain communications with Tesoro Corporate Management	Sec 1.2	• Maintain communications with Tesoro Corporate Management • Maintain Agency and Stakeholder communications • Maintain communications with local community leaders • Maintain dialog with Anchorage School District • Maintain direct contact with: ▪ Anchorage Fire Department (AFD) ▪ Anchorage Police Department (APD) ▪ Anchorage Waste Water & Utilities (AWWU) ▪ Other utilities	Sec 1.2	• Maintain communications with Tesoro Corporate Management • Maintain Agency and Stakeholder communications • Maintain communications with local community leaders • Maintain dialog with Anchorage School District • Maintain direct contact with: ▪ Anchorage Fire Department (AFD) ▪ Anchorage Police Department (APD) ▪ Anchorage Waste Water & Utilities (AWWU) ▪ Other utilities	Sec 1.2
(i) Stopping Discharge at Source & (viii) Lightering	• Tesoro Pipeline pumps shutdown • Secure Pipeline MOV;s • Lightering – not associated with this scenario	Sec 1.6	• MLV 8 & 9 to remain secured. • Open MLV 9 with supervision and continuous communications to see if product drains from the line • Discharge secured – continue to monitor		• Valves (MLV 8 & 9) secured • Discharge secured – continue to monitor	
(ii) Preventing or Controlling Fire Hazards	• Notify Anchorage Fire Department • Notify Anchorage Police Department • Determine Foam supplies	Sec 1.3	• Monitor area for any fire potential	Sec 1.3	• Monitor area for any fire potential	Sec 1.3
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• On-Site Responders to report any oil movement or potential movement off of the pipeline right-of-way or on Northern Lights Blvd.	CI-TS-1 CI-TS-4	• Continue to have On-Site Responders report any oil movement or potential movement off of the pipeline right-of-way. • Request CISPRI's hand held infrared camera • Prepare to delineate extent of spill area	CI-TS-2	• Continue to have On-Site Responders report any oil movement or potential movement off of Turnagain Elementary School property. • Prepare CISPRI's hand held infrared camera for evening operations	CI-TS-2
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Minimize traffic footprint as best possible • Evaluate any nearby potential downstream areas of contamination • Evaluate and act upon safety of students and faculty at Turnagain Elementary School.	CI-SA-1 CI-SA-2	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information • Evaluate and act upon safety of students and faculty at Turnagain Elementary School. • Minimize traffic footprint as best possible	CI-SA-3	• Continue to evaluate any nearby potential downstream potential areas of contamination • Monitor and evaluate forecasted weather information • Evaluate and act upon safety of students and faculty at Turnagain Elementary School. • Minimize traffic footprint as best possible	

TABLE 1.6-48 (Continued)

RESPONSE SCENARIO #4 SCENARIO STRATEGY – DAY ONE						
ADEC Requirement 18 ACC 75.425 (e)(1)(F)	**Timeline – Actions Taken 0600 - 1200**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1200 - 1800**	**CISPRI Technical Manual Tactic Tesoro C-Plan**	**Timeline – Actions Taken 1800 - 0600**	**CISPRI Technical Manual Tactic Tesoro C-Plan**
(vi) Spill Containment and Control Actions & (vii) Spill Recovery Procedures	• Mobilize and deploy pre-staged CISPRI Spill Response Equipment from the Port of Anchorage • Mobilize IRT, CISPRI and Emerald Alaska responders as needed and deploy to Turnagain Elementary School. • Mobilize Vac trucks, SuperSucker, Tank Truck, dumpsters, Fast tanks, Diaphragm Pump, Visqueen, etc. (Tesoro) • Mobilize and deploy equipment for trenching and excavation.	Appendix –A CI-LP-1A CI-LP-1B CI-LP-3 CI-LP-4 CI-IL-1 CI-IL-2 CI-IL-9	• Manage CISPRI Spill Response Equipment from the Port of Anchorage • Manage IRT, CISPRI and Emerald Alaska responders as response dictates. • Manage recovery Operations (Vac trucks, SuperSucker, Tank Truck, dumpsters, Fast tanks, Diaphragm Pump, Visqueen, etc). • Maintain equipment for trenching and excavation. • Mobilize and deploy equipment for contaminated soil removal.	Appendix –A CI-LP-1A CI-LP-1B CI-LP-3 CI-LP-4 CI-IL-1 CI-IL-2 CI-IL-9	• Manage CISPRI Spill Response Equipment from the Port of Anchorage • Manage IRT, CISPRI and Emerald Alaska responders as response dictates. • Manage recovery Operations (Vac trucks, SuperSucker, Tank Truck, dumpsters, Fast tanks, Diaphragm Pump, Visqueen, etc). • Manage equipment for trenching and excavation. • Deploy Portable Light Units for continued response efforts	
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Mobilize and deploy CISPRI / Tesoro Fast tanks to spill site. • Mobilize tank truck or Baker tank to vicinity of spill site.	CI-WM-1 CI-LP-6	• Assess all potential storage needs. • Mobilize and deploy CISPRI / Tesoro Fast tanks to spill site. • Mobilize tank truck or Baker tank to vicinity of spill site. • Anchorage Terminals or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes	CI-TS-4	• Continue to assess all potential storage needs. • Maintain CISPRI / Tesoro Fast tanks to spill site. • Manage tank truck or Baker tank to vicinity of spill site. • Anchorage Terminals or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes	
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• Environmental Unit develop Waste Management Plan Establish portable tankage at site for storage of recovered product/contaminated liquids • Establish locations at (TES) staging area for temporary solid waste storage • Establish decon area at spill site	CI-WM-1 CI-WM-4 CI-LP-6 Appendix-D	• Environmental Unit submit Waste Management Plan to U.C. for approval • Maintain portable tankage at site for storage of recovered product/contaminated liquids ▪ Fast tanks ▪ Tank Truck • Maintain locations at site for temporary solid waste storage • Maintain decon area at spill site	CI-WM-5	• Follow and provide feedback on Waste • Management Plan • Maintain portable tankage at site for storage of recovered product/contaminated liquids ▪ Fast tanks ▪ Tank Truck • Maintain locations at site for temporary solid waste storage • Maintain decon area at spill site	
(xi) Wildlife Protection Plan	• Establish contact with resource agencies	CI-LP-6	• Wildlife involvement not anticipated	CI-LP-5	• Wildlife involvement not anticipated	

TABLE 1.6-49

RESPONSE SCENARIO #4

GENERAL RESPONSE OBJECTIVES & STRATEGIES – DAY TWO

OBJECTIVES	STRATEGIES
Safety	• Continue to ensure safety of all responders and repair team personnel • Continue to ensure safety of all children and staff at Turnagain Elementary School • Continue to ensure safety of all neighboring residents. • Secure response area
Source Control	• Commence pipeline repair operations • Continue valve isolation immediately adjacent to spill site (MLV 8) • Open MLV 9 for drainage to the Port of Anchorage
Containment, Control & Recovery of Oil	• Expedite recovery of oil to minimize impacts on local population • Ensure effective Waste Management
Protection of Sensitive Resources	• Continue to minimize any spread of product
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups • Continue dialog with the Anchorage Schools District • Maintain claims process

TABLE 1.6-50

RESPONSE SCENARIO #4

TACTICAL OBJECTIVES – DAY TWO

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT & responders ❒ Review and approve plans, applications and permits (as appropriate)
	LO	❒ Continue community and stakeholder outreach program ❒ Continue dialog with Anchorage School District ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue U.C. Media Briefing
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot Safety audits
PLANNING	PSC	❒ Maintain Command Post at Turnagain Elementary School ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain equipment and personnel tracking and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Validate trajectory information with aerial surveillance
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate permits and plans as needed ❒ Supervise solid and liquid waste management locations
OPERATIONS	OPS	❒ Manage land based recovery operations ❒ Manage fire suppression operations as needed ❒ Manage pipeline repair operations (as needed) ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area ❒ Continue to manage solid and liquid waste
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Activate pipeline repair crews and equipment as needed ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Cost Tracking

TABLE 1.6-51

RESPONSE SCENARIO #4

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
Safety	• Continue site characterization and continuous air monitoring. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue to re-route traffic control (as needed) • Conduct safety audit of ongoing operations.	• Continue site characterization and continuous air monitoring throughout evening. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Reassess Site Safety Plan - pay particular attention to any operational changes • Continue to re-route traffic control (as needed) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• Valves (MLV 8 & 9) secured • Source secured – continue to monitor	• Valves (MLV 8 & 9) secured • Source secured – continue to monitor
(ii) Preventing or Controlling Fire Hazards	• Continue to maintain (AFD) assets as available • Continuously monitor for changes in wind direction	• Continue to maintain (AFD) assets as available • Continuously monitor for changes in wind direction
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to have On-Site Responders report any oil movement or potential movement off of the pipeline right-of-way. • Ready hand held infrared camera	• Continue to have On-Site Responders report any oil movement or potential movement off of the pipeline right-of-way. • Ready hand held infrared camera for evening ops
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Evaluate and take action to ensure safety of students and faculty at Turnagain Elementary School. • Monitor and evaluate forecasted weather information	• Evaluate and take action to ensure safety of students and faculty at Turnagain Elementary School. • Monitor and evaluate forecasted weather information

TABLE 1.6-51 (Continued)

RESPONSE SCENARIO #4

SCENARIO STRATEGY – DAY TWO

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Manage responders as response dictates. • Manage recovery operations including: ▪ Vacuum trucks, SuperSucker, Tank Truck, ▪ Fast tanks, Diaphragm Pumps • Manage Waste Management Resources including: ▪ Tank Truck, Dumpsters, Fast tanks, • Manage equipment for trenching and excavation. ▪ Excavator, Back hoe, • Maintain Portable Light Units for continued response efforts • Manage repair teams to make piping repair • Manage fire suppression & Public Safety / Security operations.	• Manage responders as response dictates. • Manage recovery operations including: ▪ Vacuum trucks, SuperSucker, Tank Truck, ▪ Fast tanks, Diaphragm Pumps • Manage Waste Management Resources including: ▪ Tank Truck, Dumpsters, Fast tanks, • Manage equipment for trenching and excavation. ▪ Excavator, Back hoe, • Maintain Portable Light Units for continued response efforts • Manage repair teams to make piping repair • Manage fire suppression & Public Safety / Security operations.
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Continue to assess all potential storage needs. • Maintain CISPRI / Tesoro Fast tanks to spill site. • Manage tank truck or Baker tank recovery site. • Anchorage Terminals or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes	• Continue to assess all potential storage needs. • Maintain CISPRI / Tesoro Fast tanks to spill site. • Manage tank truck or Baker tank recovery site. • Anchorage Terminals or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• Follow and provide feedback on Waste Management Plan • Maintain portable tankage at site for storage of recovered product/contaminated liquids ▪ Fast tanks ▪ Tank Truck or Baker Tanks • Maintain locations at site for temporary solid waste storage • Maintain decon area at spill site	• Follow and provide feedback on Waste Management Plan • Maintain portable tankage at site for storage of recovered product/contaminated liquids ▪ Fast tanks ▪ Tank Truck or Baker Tanks • Maintain locations at site for temporary solid waste storage • Maintain decon area at spill site
(xi) Wildlife Protection Plan	• Wildlife involvement not anticipated	• Wildlife involvement not anticipated

TABLE 1.6-52

RESPONSE SCENARIO #4
GENERAL RESPONSE OBJECTIVES & STRATEGIES
DAY THREE & BEYOND (AS NEEDED)

OBJECTIVES	STRATEGIES
Safety	• Continue to ensure safety of all responders and repair team personnel • Continue to ensure safety of all children and staff at Turnagain Elementary School • Continue to ensure safety of all neighboring residents.
Source Control	• Make permanent repairs to the damaged pipeline • Remove contaminated soils
Containment, Control & Recovery of Oil	• Maximize mechanical containment, control and recovery of oil • Maintain effective Waste Management practices • Continue to minimize the spread of oil
Protection of Sensitive Resources	• Continue to minimize oiling of sensitive areas • Continue protection of local neighborhood • Continue to minimize footprint in response area
Public Outreach	• Continue to communicate spill response information to the public • Continue to communicate spill response information to community leaders and stakeholder groups • Maintain communications with the Anchorage School District. • Continue to maintain claims process
Management	• Commence daily communications with Unified Command via teleconference. • Commence project based response and pipeline repair operations • Report any changes in response operations or repair operations

TABLE 1.6-53

RESPONSE SCENARIO #4

TACTICAL OBJECTIVES – DAY THREE & BEYOND (AS NEEDED)

Section		Objectives
COMMAND	U.C.	❒ Provide management and oversight to IMT ❒ Review and update Goals & Objectives ❒ Communicate direction and expectations to IMT ❒ Review and approve plans, applications and permits (as appropriate) ❒ Scale down response effort and turn into a project based response
	LO	❒ Continue community and stakeholder outreach program ❒ Continue contact schedule
	PIO	❒ Continue to prepare and update news releases and website information ❒ Continue JIC daily Media updates (as long as school and neighborhood is affected by the incident)
	SO	❒ Update and enforce Site Safety Plan ❒ Conduct spot Safety audits
PLANNING	PSC	❒ Maintain Command Post at Turnagain Elementary School ❒ Maintain meeting schedules
	DOC	❒ Maintain records and file controls ❒ Maintain duplication services ❒ Continue to scribe all meeting notes
	RUL	❒ Maintain T-Card files and displays ❒ Maintain Organization chart
	SUL	❒ Maintain and update CP displays ❒ Validate trajectory information with aerial surveillance
	EUL	❒ Prepare, revise and submit applicable permits and applications as needed ❒ Update appropriate permits and plans as needed ❒ Supervise solid and liquid waste management locations ❒ Continue to prioritize sensitive area protection needs ❒ Continue to assess wildlife needs
OPERATIONS	OPS	❒ Manage land based recovery operations ❒ Manage fire suppression operations as needed ❒ Manage pipeline repair operations (as needed) ❒ Continue to evaluate need for additional resources (as needed) ❒ Continue to manage equipment staging area ❒ Continue to manage solid and liquid waste
LOGISTICS	LSC	❒ Evaluate and respond to support needs ❒ Activate pipeline repair crews and equipment as needed ❒ Procure and provide additional support resources (e.g. consumables, facilities, lodging, meals, transportation, maintenance services, water, fuel, etc.) ❒ Satisfy requirements to transport personnel / equipment ❒ Continue to maintain communication systems
FIN	FSC	❒ Maintain systems for meeting financial needs ❒ Continue Cost Tracking

TABLE 1.6-54

RESPONSE SCENARIO #4

SCENARIO STRATEGY – DAY THREE & BEYOND AS NEEDED

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
Safety	• Continue site characterization and continuous air monitoring especially in school areas. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Continue communications with Field Site Safety (FSS) • Continue to re-route traffic control (as needed) • Conduct safety audit of ongoing operations.	• Continue site characterization and continuous air monitoring especially in school areas. • Expand and revise Site Safety Plan as needed. Pay particular attention to any operational changes. • Identify field safety needs and add as appropriate. • Continue communications with Field Site Safety (FSS) • Continue to re-route traffic control (as needed) • Conduct safety audit of night time operations.
(i) Stopping Discharge at Source & (viii) Lightering	• All pipeline pumping secured – continue to monitor • Ready area for temporary or permanent repairs	• All pipeline pumping secured – continue to monitor
(ii) Preventing or Controlling Fire Hazards	• Continue to evaluate fire risk • Maintain firefighting equipment is ready status especially if localized in –situ burning is approved	• Re-evaluate fire risk potential • Maintain firefighting equipment is ready status
(iv) Surveillance and Tracking of Oil; Forecasting Shoreline Contact Points	• Continue to evaluate spill perimeter / area • Use hand held infrared camera to delineate spill area	• Continue to evaluate spill perimeter / area • Use hand held infrared camera for evening ops
(v) Protection of Environmentally Sensitive Areas and Areas of Public Concern	• Continue to conduct air monitoring inside school areas • Monitor and evaluate forecasted weather information	• Continue to conduct air monitoring inside school areas • Monitor and evaluate forecasted weather information

TABLE 1.6-54 (Continued)

RESPONSE SCENARIO #4

SCENARIO STRATEGY – DAY THREE & BEYOND AS NEEDED

ADEC Requirement 18 ACC 75.425 (e)(1)(F)	TIMELINE – ACTIONS TAKEN	
	Day Shift	Night Shift
(vi) Spill Containment and Control Actions And (vii) Spill Recovery Procedures	• Manage responders as response dictates. • Manage recovery operations including: ▪ Vacuum trucks, SuperSucker, Tank Truck, ▪ Fast tanks, Diaphragm Pumps • Manage Waste Management Resources including: ▪ Tank Truck, Dumpsters, Fast tanks, • Manage equipment for trenching and excavation. ▪ Excavator, Back hoe, • Maintain Portable Light Units for continued response efforts • Manage repair teams to make piping repair • Manage fire suppression & Public Safety / Security operations.	• Manage responders as response dictates. • Manage recovery operations including: ▪ Vacuum trucks, SuperSucker, Tank Truck, ▪ Fast tanks, Diaphragm Pumps • Manage Waste Management Resources including: ▪ Tank Truck, Dumpsters, Fast tanks, • Manage equipment for trenching and excavation. ▪ Excavator, Back hoe, • Maintain Portable Light Units for continued response efforts • Manage repair teams to make piping repair • Manage fire suppression & Public Safety / Security operations.
(ix) Transfer and Storage of Recovered Oil/Water; Volume Estimating Procedure	• Continue to assess all potential storage needs. • Maintain CISPRI / Tesoro Fast tanks to spill site. • Manage tank truck or Baker tank recovery site. • Anchorage Terminals or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes	• Continue to assess all potential storage needs. • Maintain CISPRI / Tesoro Fast tanks to spill site. • Manage tank truck or Baker tank recovery site. • Anchorage Terminals or Refinery to supply portable or fixed tankage for storage of product and volume estimation purposes
(x) Plans, Procedures and Locations for Temporary Storage and Disposal	• Follow and provide feedback on Waste Management Plan • Maintain portable tankage at site for storage of recovered product/contaminated liquids ▪ Fast tanks ▪ Tank Truck or Baker Tanks • Maintain locations at site for temporary solid waste storage • Maintain decon area at spill site	• Follow and provide feedback on Waste Management Plan • Maintain portable tankage at site for storage of recovered product/contaminated liquids ▪ Fast tanks ▪ Tank Truck or Baker Tanks • Maintain locations at site for temporary solid waste storage • Maintain decon area at spill site
(xi) Wildlife Protection Plan	•	•

Table 1.6-55

Response Scenario #4

EXPECTED TIMELINE FOR RESPONSE ACTIONS (18 AAC 75.425(e)(1)(F)

Day	Operations	Estimated Recovery
Day 1	Vacuum truck/pump/supersucker operations will begin	1,400 bbl
Day 2	Additional free product recovery	500 bbl
	Petroleum contaminated soil removed and stockpiled via heavy equipment (500 cubic yards)	500 bbl
Day 3 & beyond	No free product recovery possible Petroleum contaminated soil removal as feasible based on infrastructure limitations via heavy equipment.	100

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1.7 NON-MECHANICAL RESPONSE INFORMATION

Non-mechanical response options, such as dispersant application and in situ burning, may be used during a spill response, pending direction and approval from the Unified Command. Necessary permits and approvals to initiate a dispersant application or in situ burning are requested from the Federal and State On-Scene Coordinators following the guidelines of the Alaska Regional Response Team (ARRT) as described in Annex F of the Unified Plan (http://www.akrrt.org/UnifiedPlan/F-Annex.pdf). The CISPRI Technical Manual also lists necessary permits and approvals to initiate dispersant application and in situ burning.

Tesoro will use the dispersant decision “Matrix”, contained in Annex F, which discusses the basis for determining conditions or circumstances under which dispersants may be applied, dispersant use criteria and specific guidelines for dispersant use within Cook Inlet.

Annex F also contains the In Situ Burning Guidelines for Alaska, Revision 1, and discusses the basis for determining conditions or circumstances under which in situ burning may be carried out, human health and ecological considerations, a checklist and application for in situ burning.

The CISPRI Technical Manual, Tactics CI-NM-1 and CI-NM-3 describe the equipment and operational considerations necessary to implement a non-mechanical response. Tactic CI-LP-4 lists the inventory of non-mechanical response equipment and supplies in the CISPRI inventory.

Supplemental information regarding non-mechanical response options can be located in Section 3.7.

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1.8 FACILITY DESCRIPTION

The Tesoro Refining & Marketing Company LLC Kenai Refinery and Nikiski Terminal are located approximately 10 miles north of the city of Kenai, on the East Side of the Kenai Spur Highway, approximately one-mile inland from Cook Inlet.

Tesoro assumed operation of the refinery in 1969. The facility covers an area of approximately 250 acres and processes crude petroleum at a maximum rate of 72,000 barrels per day stream day, although it frequently is operated at less than full capacity. The refinery receives Crude Oil via the Kenai Pipe Line Company (KPL). Refined products of the refinery include gasoline and diesel fuels, jet fuel, residual heating oil, and liquefied petroleum gas. Refined products are received and distributed via the Kenai Pipe Line Company (KPL). Tank trucks which load primarily at the Nikiski Terminal or loading racks located at the refinery also distribute refined products. Historical wastes were stored at the refinery resulted in a Post-Closure Part B permit. (AKD 048 679 682) being issued to the refinery effective as of December 10, 1995. Permit Condition II.I requires a facility contingency plan, and this Plan fulfills those requirements.

The Nikiski Terminal is located approximately one mile south of the refinery on the east side of the Kenai Spur Highway. The terminal includes six finished product tanks, one wastewater tank and a truck loading rack. The terminal receives finished products from the Kenai Refinery via pipeline.

The Tesoro Pipeline runs for approximately 50 miles north from the refinery, under Turnagain Arm, along western Anchorage and terminates approximately 70 miles from the refinery at the Port of Anchorage. It is used to transport gasolines, Jet A and diesel fuels.

The following maps are included in **Appendix B** to provide an overview of the facility:

X	TESORO ALASKA PIPELINE ROUTE
X	VICINITY MAP OF THE TESORO KENAI REFINERY
X	REFINERY PLOT PLAN
X	NIKISKI TERMINAL PLOT PLAN
X	ANCHORAGE TERMINAL PLOT PLAN
X	DETAILED REFINERY MAP WITH DRAINAGE PATTERNS
X	PIPELINE ROUTES LEAVING THE REFINERY

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PART 2
PREVENTION PLAN

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2.1 PREVENTION PROGRAMS IN PLACE

2.1.1 PREVENTION TRAINING PROGRAMS

All Tesoro employees participate in company training programs to assure safe operation of their facilities, prevent oil spills, and comply with regulatory requirements. In addition, substantial training is provided for response to emergency situations as shown in Section 3.9 of this Plan. Detailed information on training programs and documentation of individual employee training is available at the Tesoro Kenai Refinery.

The following Tesoro programs are used to train employees and to assure procedures are in place to prevent oil spills:

- All newly hired employees received 40 hours of introductory training which stresses safety and emergency response. The training includes information on spill prevention and control. The orientation training reviews this Refinery Oil Discharge and Contingency Plan which includes the Emergency Response Action Plan (Part 1 of this Plan).
- An Employee Introductory Training Checklist is maintained for each employee which requires sign-off by both the employee and the Tesoro representative for each segment of the introductory training.
- Routine on-the-job training via supervision and guidance is provided to all employees through a mentor system.
- Weekly and special safety meetings are held which are tailored to each work group at the facility that identifies current health, safety, and spill related issues with emphasis on corrective actions. Loss Prevention Programs which include such activities as the use of hot work permits, contractor training, and daily facility inspections are reviewed during safety meetings.
- A Health and Safety Training Program is provided which includes Facility Safety Rules and Chemical Hazard Communication.
- Special training is given to members of the Environmental Services Group which emphasizes personal and environmental safety, hazardous wastes and site remediation.
- Members of the Initial Response Team receive special training which emphasizes personal and environmental safety in addition to hazardous material and oil spill response.
- Initial 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training is provided to members of the Environmental Services Group and the Initial Response Team who may handle hazardous waste.
- An annual 8-hr refresher for the HAZWOPER course is provided for employees who have taken the 40-hour HAZWOPER training.
- RCRA training is provided for all employees who come into contact with hazardous wastes. This training includes methods and observations to detect the presence of a hazardous chemical leaks in the work place and work practices to prevent hydrocarbon spills and exposure.

- The Environmental Services Group receives ongoing training on various sampling and inspection requirements for compliance monitoring, permit implementation, corrective actions, corrective actions monitoring, and facilities inspections for a number of environmental compliance issues, permits, and administrative orders. This is provided via conferences, symposia, and seminars in many environmental fields.
- Annual training updates are provided for all field employees which includes detailed information on safety, spill prevention, and fire control.
- Annual Contingency Plan and Spill Prevention and Control Countermeasures (SPCC Plan) training.
- Training activities are under the direction of the Asset Training Supervisor who reports to the Manger of Environmental, Health and Safety (EHS).

2.1.2 SUBSTANCE ABUSE AND MEDICAL CONDITION PROGRAMS

Tesoro has instituted substance abuse and medical condition programs to ensure that each drill operator, each person who has navigational, towline, security, or maintenance duties, and any other person responsible for any activity that might result in a violation (18 AAC 75), shall be free of substance-abuse or medical problems that would impair that person's ability to perform his or her job (18 AAC 75.007(e)).

(b) (7)(F)

[redacted]

2.1.4 PETROLEUM TRANSFER PROCEDURES

Written transfer procedures have been established for this facility and employees receive training specific to all facility hydrocarbon transfers. These written procedures are readily available to all employees at operation control centers.

Refinery Petroleum transfer activities at the refinery include pipeline transfers to and from other facilities; transfers between tanks within the refinery; and transfers between process equipment .

Refinery Truck Load Racks Truck Loading Racks are located near the northwest entrance of the refinery to load asphalt and propane. All loading is continuously monitored by trained truck drivers. Transfers cannot begin until trucks are properly grounded. Emergency shutdown switches and pump controls are clearly marked and accessible to operating personnel. Written loading procedures for the tank truck loading racks are available. They are summarized below:

Nikiski Terminal

Following is a summary of written loading procedures for the Nikiski Terminal Rack:

1. Use Driver Card to enter gate.
2. Position truck at rack, set brakes, and turn off the engine.
3. Confirm bottom truck valves are secure.
4. Place card into loading computer and follow instructions on screen.
5. Ground truck.
6. Connect hose couplings and open valves.
7. Dial in the product and load volume.
8. Automatic system starts slow fill, goes to maximum fill, and returns to slow fill as target volume is approached.
9. Close valves and disconnect hoses.
10. Card out. Check bottom valve. Compete bill of lading and depart.

Asphalt Refinery Loading Rack

1. Drive on to scales and weigh in; notify Control Center Operator (CCO) of arrival.
2. Drive to loading rack; notify Control Center Operator (CCO) (ext 549).
3. Position truck at rack, set brakes, and turn off engine.
4. Confirm bottom truck valves are secure.
5. Lower safety ramp onto truck.
6. Confirm tanks has no retain.
7. Insert poundage needed and commence loading truck
8. Finish loading truck.
9. Raise safety ramp.
10. Proceed to scales and weigh out.

Tesoro Alaska Pipeline The Tesoro Alaska Pipeline **Operating Procedures**, **(Procedure number TKFNO032)** provides detailed operating procedures for start-up, fuel transfers and shutdowns. The manuals are available at the pipeline pumping and receiving stations. Operating instructions are summarized below:

Pipeline Start-up

1. Visually check facility area. Look for oil leaks.
2. Notify Anchorage Control Center Operator of your intention to start-up system.
3. Open mainline valve.

4. Notify Anchorage Control Center Operator that you are starting up.
5. Turn on refinery pump.
6. Slowly open Fisher Control Valve and monitor pressures at start up.
7. Start additional pumps as needed.
8. Notify Anchorage when you reach target pumping rate.

Pipeline Shutdown

1. Notify Anchorage Control Center Operator to block-in the pipeline.
2. Shut-off pipeline pumps once shutdown pressure is achieved.
3. Close Fisher Valve.
4. Give Anchorage Control Center Operator final line totals.
5. Block-in mainline valve.
6. Make final visual check of the area.

The Tesoro facility has been designed and is staffed to execute rapid shutdown of transfer systems if needed. Estimated shutdown times based on interviews of Tesoro Operators are

- Transfers to or from KPL dock can be shutdown in less than one minute by remotely operated pumps. It is estimated to take 1 to 2 minutes if operators use line valves or high pressure pump shutdowns from their work stations.
- Transfers from the refinery to the Nikiski Terminal can be shutdown immediately by remotely operated pumps or within 5 minutes if it becomes necessary to close manual valves.
- Transfers within the Tesoro Refinery Tank Farm can be shut down immediately by remotely operated pumps or within 5 minutes if it becomes necessary to close manual valves.
- The Tesoro Alaska Pipeline can be shut down immediately by securing pumps and closing remote actuated motor control valves. Operators at the Kenai Control Center can shutdown all pumps and all remote actuated motor control valves. Operators at the Anchorage Receiving Station can close all remote actuated motor control valves with the exception of valves 2 & 3.
- Truck loading can be shut down immediately by the emergency shutdown button at both the Nikiski Terminal and Asphalt loading Rack.

2.1.5 OIL STORAGE TANKS

Tesoro operates oil storage tanks at the Kenai Refinery, Nikiski Terminal, and one transmix tank associated with TAPL (physically located at Tesoro's Anchorage Terminal). Details on all facility tanks are provided on Tables 3.1-2 and 3.1-3, including construction specifications, installation dates, and inspection requirements. All oil storage tanks are monitored on a daily basis by operating personnel. There are no underground or partially buried bulk storage tanks at the refinery or pipeline.

Refinery Storage The refinery bulk storage area includes all crude oil, refined product, intermediate storage tanks, and associated transfer piping. All tanks are built to API standards and are compatible with the products stored.

Nikiski Terminal (b) (7)(F) of petroleum products, a 2-bay truck loading rack, and an oily water collection system. Petroleum products are transferred from the refinery to the Nikiski Terminal via pipelines. The Nikiski Terminal tanks, dikes, gauging, Varec system, and radio communication equipment are similar to those that are located within the refinery.

Tesoro Alaska Pipeline Oil received in Anchorage from the pipeline is normally transferred directly to various Anchorage tank farms. As a result the pipeline does not have any finished product storage tanks located in Anchorage. There is one (b) (7)(F) nk (Tank 9) which is used for product interface and PSV relief temporary storage. Tank 9 is physically located within Tesoro's Anchorage Terminal 1 tank farm secondary containment area, and although operated as a TAPL asset, is managed under Tesoro Logistics Operations LLC Anchorage Terminal 1 & 2 Oil Discharge Prevention and Contingency Plan. Transmix is trucked back to the refinery for reprocessing.

Field Constructed Aboveground Oil Storage Tanks (18 AAC 75.065)

All tanks described in this plan and subject to Oil Discharge Prevention and Contingency Plan requirements are field constructed, aboveground storage tanks except for Tanks 55 and 57 (compliance status described below). Compliance with applicable portions of 18 AAC 75.065 is summarized following:

18 AAC 75.065(a) (maintenance and inspection requirements): All tanks subject to this requirement are constructed of welded carbon steel in accordance with API 650 specifications. The tank materials and construction are compatible with the products stored at the facility. Tank inspections, repair, alteration and reconstruction are conducted in accordance with API 653 recommended practices.

18 AAC 75.065(b) (inspection interval requirements): Inspection intervals for tanks subject to this requirement are conducted in accordance with API 653 recommended practices, and department approval, as applicable. Inspection schedules are provided in Table 3.1-2.

18 AAC 75.065(c) (on-shore, elevated field constructed tanks): These standard apply to propane and butane spheres 70 and 80 at the Kenai refinery. External inspections are conducted and records for these pressurized sphere.

18 AAC 75.065(d) (records and documentation): Inspection, construction and maintenance records are maintained at the facility and provided upon request as required.

18 AAC 75.065(e) (notifications): Notifications are provided as soon as practical prior to major repair, major alteration of assets subject to this requirement. Notifications are provided prior to return-to-service following major repair or alteration of tanks subject to this requirement as defined by applicable portions of API 653.

18 AAC 75.065(f) (steam heating systems): Tanks served by internal steam heating systems are designed to control leakage through defective heating coils. Condensate lines are monitored, and all condensate discharge is monitored and/or passed through oil separating systems.

18 AAC 75.065(g) (internal linings): Tanks with internal linings installed to comply with this section are installed in accordance with API 652. Tank lining installations are summarized on Table 3.1-2.

18 AAC 75.065(h) (leak detection, cathodic protection and/or thick film liners for tanks placed in service before May 14, 1992): As per Table 3.1-2, all field-constructed aboveground storage tanks subject to this Plan, except Tanks 59 and 67 (compliance status is described as applicable below), are subject to 18 AAC 75.065(h). Compliance with this provision is summarized in Table 3.1-2, column heading "Date Lined" and following:

> ***18 AAC 75.065(h)(1)(A) (leak detection system):*** Tanks 20, 24 and 25 are equipped with double-bottoms with a leak detection system that an observer from outside the tank can use to detect leaks in the bottom of the tank.
>
> ***18 AAC 75.065(h)(1)(b) (cathodic protection):*** Tanks 35, 62 and 63 possess cathodic protection; operated in accordance with 18 AAC 75.065(h)(2). These cathodic protection systems, and specified cathodic protection surveys, are consistent with standard recommended practices described in NACE RP0193-2001
>
> ***18 AAC 75.065(h)(1)(C) (thick film liners):*** All other subject tanks placed in service prior to May 14, 1992, as summarized on Table 3.1-2, are equipped with a thick film liners in accordance with API R 652.

18 AAC 75.065(i) (requirements for field-constructed aboveground oil tanks placed in service on or after May 14, 1992 and before December 30, 2008): As per Table 3.1-2 Tanks 04D and 59 were placed in service in 2002, and as such are subject to the requirements of 18 AAC 75.065(i). There welded steel tanks were constructed and installed in accordance with API 650 specifications and included in the cathodic protection program described for 18 AAC 75.065(h) (above). Tank 04D is constructed with an impermeable liner. Tank 59's service is for a product with a viscosity exceeding 400 SUS and as such is exempt from impermeable liner or double bottom in accordance with 18 AAC 75.075(e)(1).

18 AAC 75.065(j) (requirements for field-constructed aboveground oil tanks placed in service after December 30, 2008): As per Table 3.1-2, Tank 67 was placed in service in 2012, and as such is subject to the requirements of 18 AAC 75.065(j). This welded steel tank was constructed and installed in accordance with API 650 specifications and included in the cathodic protection program described for 18 AAC 75.065(h) (above), designed by and installed under the supervision of a corrosion expert. It is constructed with a bottom liner possessing a leak detection system that can be observed from outside the tank.

18 AAC 75.065(k - o) (additional provisions): All tanks are equipped with electronic gauging and high liquid level alarms with immediately recognizable signals. Gauging and alarms are regularly calibrated and tested as described below. Cathodic protection systems described above are provided with test lead wires and other monitoring systems such as reference cells, as appropriate, as recommended by corrosion experts to enable electrical measurements to determine the effectiveness of cathodic protection systems. Tanks subject to this section taken out of service are emptied, secured, and labeled as required.

SHOP CONSTRUCTED ABOVEGROUND OIL STORAGE TANKS (18 AAC 75.065)

Tanks 55 and 57 are shop-fabricated horizontal aboveground oil storage tanks placed in service in 2002 and as such are subject to, and comply with, the requirements of 18 AAC 75.066. Both welded steel tanks are constructed in accordance with Steel Tank Institute (STI) standards. Specifications,

requirements, and schedules for these tanks are summarized on Table 3.1-2. These tanks are specifically subject to the requirements of 18 AAC 75.066 (f-h). As summarized, the tanks are inspected in accordance with ST SP001, and equipped with high liquid level alarms as described below in Section 2.1.9.

2.1.6 OPERATING CHECKLISTS AND REPORTS

The Tesoro Kenai Refinery makes extensive use of operating reports and checklists to prevent oil spills. The refinery has been subdivided into several operating units, each of which frequently collect and summarize data to insure that:

- Operators provide adequate oversight of the refinery 24-hours a day, seven days a week.
- Oil storage tanks, pumps, and transfer lines are continuously monitored to confirm that there are no oil leaks. (b) (7)(F) [redacted]. In addition, the facility is staffed 24-hours per day, 7-days a week by trained operators who monitor their work areas. Hourly checks are made during vessel transfers to reconcile product movement.
- All equipment in the refinery is operated to meet procedures established by Tesoro Management.
- Check lists are used to operate the refinery in such a way as to protect the health, safety, and environmental quality of the lives of employees and their neighbors.
- The refinery is operated to comply with all appropriate health, safety, and environmental regulations.

A portion of the critical checklists and operating reports are summarized in paragraphs below.

TANK FARM AND TESORO ALASKA PIPELINE

The tank farm, which includes remote areas such as the Tesoro Refinery, Nikiski Terminal and Tesoro Alaska Pipeline, is under surveillance by employees identified as the Pumper, Control Center Operator (CCO), and Tank Farm Supervisor. (b) (7)(F) [redacted]

(b)([redacted]

- **Pumping Report** It provides management a comparison of the quantity of oil leaving the shipping tank and arriving at the receiving tank. A Varec tank level measurement is recorded on a daily basis for management review.

- **Tank Varec Gauge Check** - 12 Hour Gain This report is used to monitor levels in tanks that are not currently being used to ship or receive product. It is used to identify those tanks which are inactive and confirm that they are not gaining or loosing product.

- **Two-Hour Gain Sheet** This report is used to monitor changing levels in tanks. This allows the operator to compare the quantity of product sent from one tank to product received by a second tank to confirm that hydrocarbons are not accidentally being pumped to the wrong place or that product is not being lost by leakage.

- **Marine Vessel Loading Form** This form is used whenever product is being transferred between the tank farm and a vessel. It contains a checklist to assure that the vessel is correctly approved for loading and that it is ready to receive product. It provides a comparison of oil removed from a tank to that received by the vessel. It also provides a means to alert the operator prior to the time a vessel is fully loaded to prevent tank overfill.

- **Crude Gauge Report** This report is completed for every delivery of crude oil to the refinery. It summarizes tank levels prior to and at the completion of the transfer to assure that the refinery and vessel records agree.

- **Tank Strap Record** This form is used to compare a manual measurement of oil level in storage tanks to the level reported by the Varec System. The form is completed each time the tank is manually gauged.

- **Level Alarm Checklist** This form is used to assure that the high level alarms on all oil storage tanks are tested at least once per week.

CRUDE UNIT CONTROL ROOM

Crude Unit Operators control the Crude Unit, Reformer, LPG Unit, PRIP Unit, Vacuum Unit, Naphtha Splitter, and Utility Building. Operators record a series of readings from the control panels in the Crude Control room as well as at numerous outside sites in the units every four hours, 24-hours per day, seven days per week.

HYDROCRACKER CONTROL ROOM

Hydrocracker Operators control the Hydrocracker, Hydrogen Plant, Sulfur Unit, Amine Unit, DIB Unit, DDU and Co-generation Units. Operators record a series of readings from the control panels in the Hydrocracker Control Room as well as at numerous outside sites at the units every four hours, 24-hours per day, seven days per week.

2.1.7 SECONDARY CONTAINMENT FOR ABOVE GROUND OIL STORAGE TANKS

Aboveground oil storage tanks for Tesoro's Kenai Refinery and Nikiski Terminal require secondary containment in accordance with applicable portions of 18 AAC 75.075 as follows. As discussed in Section 2.1.5, Oil Discharge Prevention and Contingency Plan requirements for TAPL's transmix Tank 9 are included in Tesoro's Anchorage Terminal 1's Plan.

Table 2.1-1 summarizes secondary containment construction and capacities for the Kenai Refinery and Nikiski Terminal. The type of secondary containment liners is described in Table 2.1-1. Several tank farm secondary containment areas are lined with a sufficiently impermeable bentonite treated soil liner. Each bentonite-lined containment area has a sprayed-on polyurea liner attached to tanks within the containment area which extends 8 feet out from the tank. Figure 2.1-1 shows a typical cross-section of a bentonite liner.

Figure 2.1-1
TYPICAL BENTONITE LINER CROSS SECTION

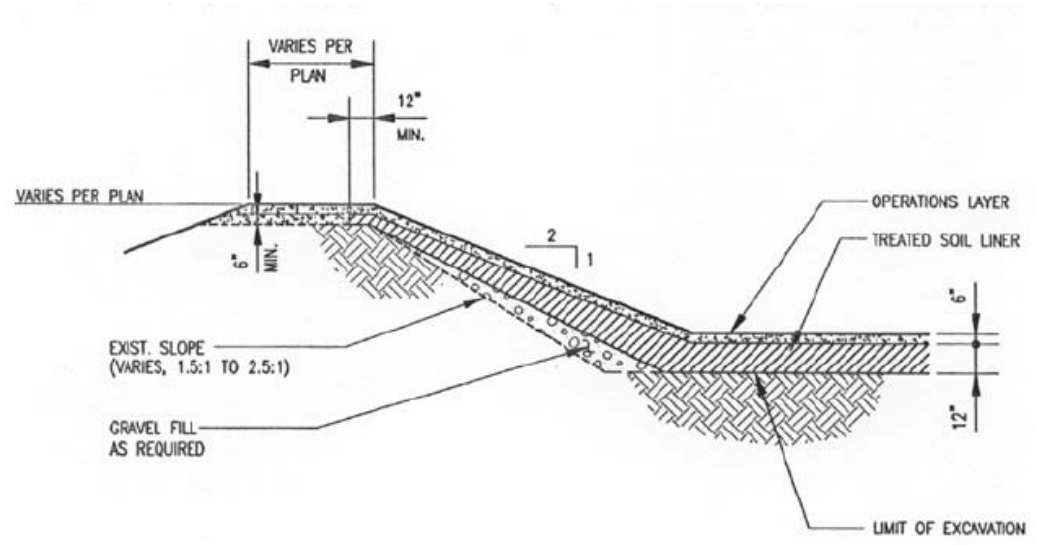

Table 2.1-1

SECONDARY CONTAINMENT SYSTEM SUMMARY

(b) (7)(F)

Area #	Liner Type	Tanks Located in Area
1	Compacted Soil[1]	55,57,59,94, 95
2	Bentonite Liner	62, 63
3	Bentonite Liner	60, 61
4	Bentonite Liner	40, 41
5	Bentonite Liner	30, 31, 32
6	Compacted Soil[1]	70, 80
7	Compacted Soil[2]	51
8	Compacted Soil[2]	42
9	Compacted Soil[2]	33
10	Bentonite Liner	37
11	Bentonite Liner	20
12	Bentonite Liner	39
13	Bentonite Liner	10, 04A, 04B, 04C
14	Bentonite Liner	11
15	Bentonite Liner	22, 35, 45, 64
16	Bentonite Liner	24, 65, 66
17	Bentonite Liner	12, 23
18	Bentonite Liner	13
19	Bentonite Liner	14
20	Bentonite Liner	25, 36
21	Geomembrane	04D
25	Bentonite Liner	103, 104, 105 106, 107, 108, 109
27	Concrete	1400
--	Concrete	Nikiski Terminal Truck Rack
	Concrete	96
	Geomembrane	97
--	Compacted Soil	Asphalt Truck Rack[1]

[redacted]

[1] Propane and butane service; gas at ambient temperatures

[2] Asphalt/bunker service; viscosity exceeding 400 SUS (ref 18 AAC 75.075((e)(1)

The following paragraphs summarize Tesoro's secondary containment for aboveground oil storage tanks as applicable to the requirements of this Plan:

18 AAC 75.075(a) (secondary containment area construction requirements): All bulk storage locations are surrounded by containment dikes that comply with 18 AAC 75.075(a) and EPA regulations. Tank farm dikes and secondary containment areas are constructed to contain the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation. Containment areas are lined with sufficiently impermeable materials compatible with stored products and resistant to prevailing weather conditions and operational damage to limit the spread of spilled oil except as noted in the summary of secondary containment system volumes is provided in Table 2.1-1.

18 AAC 75.075(b) (E & P facilities): Not applicable.

18 AAC 75.075(c) (secondary containment area maintenance): Secondary containment area accumulated water is regularly drained as described below for 18 AAC 75.075(d). Regular inspections are conducted as required. Tesoro has a debris and vegetation control program which removes significant impediments at least annually.

18 AAC 75.075(d) (secondary containment area water drainage: Storm water and snow melt is drained under operator supervision via normally closed and locked dike drain lines or portable pumps. Accumulated water is inspected prior to discharge, and inspection records are maintained as required. There is no discharge to wetlands or directly to surface waters.

18 AAC 75.075(e) (requirements for ASTs placed in service on or after May 14,1992): As described in Section 2.1.5, Tanks 55, 57, 59 and 67 are subject to these provisions. Tanks 55, 57, and 59 are in service containing viscous products exceeding 400 SUS and therefore are exempt from the impermeable liner or double bottom requirement (18 AAC 75.075(e)(1) - see Table 2.1-1). Tank 67 is constructed with an impermeable liner chemically resistant to stored product as previously described. Drains for these and all facility above ground storage tanks are minimized as required.

18 AAC 75.075(f) (groundwater monitoring): While not required by this Plan, Tesoro operates a significant groundwater monitoring and remediation program at and adjacent to the Kenai refinery, jointly administered by ADEC and USEPA. There are no known or suspected discharges at the Nikiski Terminal.

18 AAC 75.075(g) (loading rack secondary containment provisions): Tesoro operates two truck loading racks at facilities subject to this Plan; a propane and asphalt loading rack at the Kenai Refinery and a fuels loading rack (gasolines, diesels and jet fuel) at the Nikiski Terminal. There are no rail car loading racks at the subject facilities. Table 2.1-1 provides the secondary containment capacity of the truck loading racks and volume of the largest tank for trucks which are loaded at the racks. The Nikiski Terminal Truck loading rack is on a curbed cement pad which drains to an oily water collection system. Any spilled product would be collected in the oily water sewer system. This oily water is transported and treated at the refinery wastewater treatment facility in accordance with applicable regulations and permits. The racks at both facilities are included in the previously described accumulated water, debris and vegetation management programs, have extensive signage, are included in Tesoro's security program, and are inspected regularly.

2.1.8 FACILITY OIL PIPING REQUIREMENTS

18 AAC 75.080(a) (applicability): Tesoro owns and operates subject oil piping at an oil terminal (Nikiski Terminal) and production facility (Kenai Refinery). The Tesoro Alaska Pipeline is a clean products (non-crude) pipeline not directly subject to the requirements of 18 AAC 75.080; however, these requirements are used as a basis to demonstrate compliance with the requirements of this Plan.

18 AAC 75.080(b) (corrosion control program): Facility piping is encompassed within a corrosion control program as follows:

- Above ground piping is painted to reduce corrosion.

- Buried pipe is inspected for deterioration whenever it is exposed. Additional examination and corrective action will be taken if corrosion damage is found.
- Coast Guard regulated buried product transfer piping at the refinery is tested on an annual basis.

18 AAC 75.080(c) (requirements for oil piping installations after December 30, 2008): The majority of the subject facility oil piping was placed in service prior to this applicability date. New or replacement piping installed after the applicability date of this provision are designed and constructed in accordance with required engineering standards, depending on piping service.

18 AAC 75.080(d) (requirements for buried metallic installations between May 14, 1992 and December 30, 2008): The majority of the subject facility buried metallic oil piping was placed in service prior to this applicability date. All facility buried metallic oil piping possess protective coating and are included within the regional cathodic protection program as described below. All lines larger than one-inch nominal pipe size are welded construction.

18 AAC 75.080(e) (requirements for buried metallic installations after December 30, 2008): See response to 18 AAC 75.080(d).

18 AAC 75.080(f) (cathodic protection requirements): All cathodic protection systems installed after December 30, 2008 are designed by corrosion experts and installed under the supervision of a corrosion expert. All cathodic protection systems for facility oil piping is maintained and operated consistent with NACE RP0169-2002 as applicable. Regular cathodic protection surveys are conducted by a corrosion expert of qualified cathodic protection tester, which includes maintaining test lead wires to enable electrical measurements to be taken to determine the effectiveness of the cathodic protection system, and reference cells, as applicable.

18 AAC 75.080(g) (exposed piping requirements): All exposed piping is inspected and repaired, if required, in accordance with API 570 and relevant sections of 18 AAC 57.080, as applicable.

18 AAC 75.080(h) (non-cathodically protected buried metallic oil piping): Not applicable.

18 AAC 75.080(i) (pipe support requirements): All pipe supports meet applicable industrial standards and provide for minimum abrasion, corrosion, as well as for expansion and contraction.

18 AAC 75.080(j) (inspection requirements): All facility oil piping is inspected and maintained in accordance with API 570 standards. Each Refinery and Nikiski individual piping circuit has had a walk-down performed utilizing a certified API 570 Inspector. This assisted with the audit of the circuit inventory and facilitated the continued development of facility piping inspection isometric drawing/sketch of each circuit(s) that includes the line number(s), pipe size, pipe weight, flange location(s), circuit branch connection(s), Air/Soil transition zone(s) (A/S), pipe support(s) and all other related circuit appurtenances. Targeted piping circuits have been evaluated and inspected per the API 570 guidelines utilizing certified API 570 visual inspectors. The inspection consisted of auditing inspection drawings for accuracy, locating ultrasonic test measurement locations (TML's), and completing a comprehensive inspection report with inspection recommendation (IR) priorities established per inspection sketch. The UltraPipe computer management system assists with tracking inspection intervals of each piping circuit, circuit components, inspection results, and each circuit short and long term corrosion rates.

18 AAC 75.080(k) (cathodic protection system requirements): See response to 18 AAC 75.080(f)

18 AAC 75.080(l) (atmospheric corrosion controls): Piping is protected from atmospheric corrosion, as applicable based on service, in accordance with these requirements.

18 AAC 75.080(m) (soil to air interface requirements): Buried piping is wrapped and coated at the air/soil interface. Soil/air interface protections are regularly inspected, and repaired if necessary.

18 AAC 75.080(n) (valve and piping inspection and protection requirements): There are numerous piping and valve locations within the facility. All facility piping and valves are located within a secure fenced enclosure that limits access. Only Tesoro employees and contractors have access inside the facility fence line. Above ground valves, joints, and pipelines are examined regularly by facility personnel. Marine delivery pipelines are maintained and tested in accordance with Coast Guard requirements. The lines are pressurized to 150% of operating pressure. They must maintain this pressure with no more than a 5% pressure drop after one hour. The cause of a pressure loss is determined and repairs made as necessary if a pipeline fails this test. This pressure test also serves to detect leaks as described in Section 2.5.3. Above ground piping and valves are checked visually for leaks or damage during routine operations or at least monthly. Valves which permit direct outward flow from storage tanks or impoundment areas to the ground are locked in the closed position when not in use.

18 AAC 75.080(o) (oil piping removed from service requirements): Terminal connections at transfer points which are not in service for an extended period of time are capped, closed with blind flanges, or otherwise secured to prevent oil discharge. Pipes out of service for more than one year are also drained, identified as to origin and marked with the words "Out of Service."

TESORO ALASKA PIPELINE

The pipeline is protected from corrosion by a cathodic protection system. Test sections are located at cased road and railroad crossings, at intersections with other pipelines, and at approximately 1-mile intervals. An annual cathodic survey is conducted. The cathodic protection inspection and maintenance program includes the following:

- Read and record each rectifier input and output every two months to insure continuity of operation and to gain complete knowledge of the efficiency and effectiveness of each.
- Read pipe to soil potentials at all test stations on a planned annual basis.
- Inspect the pipeline and plot pit depths as needed whenever portions of the pipeline are exposed for repairs, line relocations, line lowering or raising, etc.
- Tesoro is a member of the national 811 (One-call) underground utility locate notification system for anyone digging on or near our pipelines.

The pipeline route is over-flown and visually checked approximately twice a month to assure that erosion is not taking place that could affect the pipeline as well as to look for signs of encroachment during construction activities.

CORROSION SURVEY

Tesoro annually makes corrosion surveys of the Refinery and Tesoro Alaska Pipeline. Tank Farm piping is surveyed when excavated. A third party corrosion engineering firm is used to make extensive corrosion inspections of the refinery operating units such as the crude unit, hydrocracker, and other process units during annual equipment turnarounds. Cathodically protected equipment, such as buried steel pipelines and the Tesoro Alaska Pipeline, are surveyed annually by a third party cathodic protection consultant. Selected underground oil/water sewer lines are blocked and static tested on a periodic basis. Underground lines are visually inspected when excavated. Lines are replaced or repaired as necessary if signs of corrosion are evident. Ground lines are painted. The pipes are closely inspected if signs of corrosion are observed. Extensive reports from these corrosion surveys are maintained by Tesoro and are available for inspection.

2.1.9 STORAGE TANK OVERFILL PROTECTION

All aboveground oil storage tanks are equipped with high level alarms with signals that sound and display in a manner immediately recognizable by personnel conducting a transfer in accordance with 18 AAC 75.065(k)(1). These high level alarms alert control room operators, and sound an audible alarm when the tank contents exceed approximately 90 percent of storage capacity. A summary of the high level alarms is provided in Table 3.1-2. Tanks are continuously gauged by Varec or radar electronic level monitors. Level and temperature sensors, provide control room operators with updated information every 60 seconds. All overflow alarms, gauging and inventory instrumentation are maintained and calibrated to manufacturer's specifications. Refinery control room c-operators are in continuous radio contact with field operators during all bulk deliveries and transfers. Tesoro Alaska Pipeline transmix Tank 9 is also protected by high-level alarm indicators (see previous discussions regarding Tank 9). An operator is continuously present at the pipeline facility whenever it is in operation. The high level float alarms are tested on a weekly basis by mechanically activating the system on each tank to confirm that it is operational.

2.2 DISCHARGE HISTORY

Table 2.2-1 provides a summary of Tesoro Kenai Refinery oil spills greater than 55 gallons from 1981-1991. This table does not provide a complete record of all oil spills which occurred during this time period due to varying record keeping regulations which were in place at the time.

- Table 2.2-2 provides a summary of spills greater than 55 gallons since January 1, 1992.
- Table 2.2.3 provides a summary of spills related to the Tesoro Alaska Pipeline.

Note: These tables also include Federal Agency Reportable spills that may be less than 55 gallons to comply with other agency requirements.

Tesoro's discharge history indicates that frozen water lines, mechanical failure, and human error are the primary causes of discharges. Actions taken by Tesoro to prevent or mitigate similar discharges in the future are outlined in Section 2.1 and include operating checklists, employee training, inspection and preventative maintenance programs, review of maintenance/contractor procedures, leak detection and warning systems, medical and substance abuse programs, security programs, in-house meetings and notices.

The unconfined aquifer below the Tesoro Kenai Refinery is contaminated with various hydrocarbon products due to long term leaks resulting from sewer line installation dating back to the original construction of the refinery. There is also contamination resulting from sludge storage areas adjacent to the upper tank farm. An intensive recovery effort is underway through the use of groundwater recovery and treatment technology under the corrective action requirements of the RCRA, Part B permit, issued by EPA on 10 December 1995. A history of groundwater contamination and remediation strategies is provided in the attachments to the RCRA Part B permit.

Table 2.2-1

KENAI REFINERY SPILL HISTORY--1981 THROUGH 1991

(SPILL VOLUMES GREATER THAN 55 GALLLONS)

Date	Product	Location	Amount
12/02/81	Reformate & Lead	Lead Tank	Area 15 ft by 70 ft
06/15/84	#6 Fuel Oil	Tank 23	30-35 Barrels
08/26/84	Reformate	Tank 94	300 Barrels
11/13/85	#6 Fuel Oil	2000 HP Pump Area	30 Barrels
02/23/86	Non Crude	Tank 13	300 Barrels
05/29/86	#6 Fuel Oil	KPL Dock	10 Barrels
07/24/86	#6 Fuel Oil	Phillips Dock	12 Barrels
09/24/87	Hot Oil	Phillips Property	20-50 Barrels
10/08/87	#6 Fuel Oil	Ballast Water Area	3 Barrels
11/30/87	Crude	Tank 13	160 Barrels
07/15/88	Hot Oil	Ballast Water Area	61 Barrels
08/03/88	Crude	Tank 13	5 Barrels
09/05/88	Hot Oil	Tanks 12 & 23	10-15 Barrels
09/14/88	JP-4 Jet Fuel	Tank 40	159 Barrels
05/19/89	#1 Diesel Fuel	Land	3 Barrels
08/26/89	LPG	Land	5 Barrels
09/07/89	#2 Diesel Fuel	Land	55 Barrels
09/20/89	Non-Crude	Land	1 Barrel Land 1 Barrel Marine
09/25/89	Crude	Land	24 Barrels
09/25/89	Non-Crude	Land	24 Barrels
09/30/89	Non-Crude	Land	7 Barrels
01/08/90	Wastewater	2 bbls	Frozen instrument line caused tank overflow
03/01/90	Firewater	>24 bbls	Corroded Water Line
03/13/90	Ballast Water	>2 bbls	Frozen Ballast Line
05/31/90	Slop Oil	150 bbls	Tank 04A overflow--human error
07/13/90	Leaded Gasoline	>5 bbls	Tank truck overfill--human error
11/15/90	Crude Oil	3-4 bbls	#6 Lift station overflow--level switch failure
11/15/90	Crude Oil	1-2 bbls	#6 Lift station overflow--level switch failure
10/31/91	Firewater	6 bbls	Frozen fire hydrant

NOTE: This record is not complete due to variations in record keeping requirements.

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
12/18/92	Tank 23 & 25	#1 Diesel Fuel	Hot oil line corrosion near 2000 HP Pump	1-2 bbls	Removed Contaminated soil	Piping removed and replaced
4/7/93	Tesoro Pipeline (Anchorage)	Jet A Fuel	Faulty valve, corroded high level alarm switch	100 bbls	Stopped flow of fuel. Picked up standing water and fuel, Martech on site	Replaced valve and High level alarm switch.
4/8/93	Tank 65 & 66	#6 Fuel Oil	Oily sewer near tanks 65/66 plugged	34 bbls	Free liquid picked up / soil removed	Sewer lines being checked and flushed to minimize plugging
7/17/93	Nikiski Terminal Loading Rack	Unleaded Gasoline	Tank truck overfill -- human error	2-5 bbls	Spilled fuel recovered	Video monitor installed
8/18/93	Tank 25	Oily Water	Oily sewer line corrosion	>55 gals	Removed contaminated soil	Section of pipe repaired and tested.
10/7/93	#6 Fuel Oil Line to KPL	#6 Fuel Oil	Buried pipeline corrosion - 20" line near Phillps	10-15 bbls	Removed contaminated soil	Repaired line
11/15/93	Sewer Hub Boxes	Oily Water	Sewer Hub Boxes Leaking	Unknown		Repair Seal Boxes
12/20/93	CU Seal Pot #711	Oily Water	Seal Pot Leaking	Unknown		Repair Leak
3/8/94	Recharge Trench System	Emulsified Hydrocarbons	Free Phase Hydrocarbon picked up by Groundwater Recovery well pump	Unknown	Collected in the Manway / Sumps - removed by vacuum truck	
8/24/94	HU Seal Boxes 1,2,5,6,7,8	Oily Water	Seal Boxes Leaking	Unknown		Repair Seal Boxes
9/26/94	Nikiski Terminal Loading Rack (East side of Pad)	Unknown	Discovered contamination during work being done at the Nikiski Terminal	Unknown	Contaminated soil removed	Test all sumps in the pad area/clean and reseal

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
10/6/94	Hydrocracker Seal Box 1 & 3	Oily Water	Failed Hydrostatic testing	Unknown		Repair Seal Boxes
10/4/94	Nikiski Terminal Loading Rack (West side of pad)	Unknown	Discovered contamination while doing modifications to the concrete pad at the Nikiski Terminal	Unknown	Removed contaminated soil	
11/30/94	Hydrocracker Seal box #4	Oily Water	Seal box failed test procedure	Unknown		Repair Seal Box
2/6/95	CU Seal Box 7-12	Oily Water	Valve Packing	Unknown		Repair leak
2/9/95	CU Seal Box 714A &712	Oily Water	Seal Box Leaking	Unknown		Repair Seal Boxes
3/7/95	CU Seal Box 7-11	Oily Water	Seal Box Leaking	Unknown		Repair Seal Boxes
3/14/95	CU Seal Box 7-13	Oily Water	Seal Box Leaking	Unknown		Repair Seal Boxes
3/21/95	CU Seal Box 701 & 7-10	Oily Water	Seal Box Leaking	Unknown		Repair Seal Boxes
3/21/95	Sewer Cup	#6 Fuel Oil /HAGO	Sewer backed up	2 bbl	Contaminated snow removed & placed in a secondary containment area	Blockage cleared/ W.O. to change system in a way as to prevent reoccurrence
4/7/95	CU Seal Box	Oily Water	Seal Box Leaking	Unknown		Repair Seal Boxes
12/29/95	Tank 12 Water Draw Sump	Crude Oil	Hole in bottom of concrete sump	Unknown	Waterdraw valve locked closed/soil excavated & tested for hydrocarbons	Replace sump with a steel sump

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
20 Jan 96	South Terminal Pump Slab	DF 2	Faulty Seal on DF2 sales pump	120 gallons	Contained area/ recovered by vacuum truck	Replaced seal
25 Feb 96	CAT Building	Bunker oil	P-605-A Seal failure	6-10 Barrels	Isolated P-605-A/ built snow dams to contain inside blg.	
5 Jun 96	Underground sewer pipe/ Mech. shop	OWSS	Leak in underground pipe	approx. 20 gals. per day	Pipe being excavated and repaired	Pipe repaired
18 Jun 96	S-103-B slab	Sludge / Oily water	Drain backed up	100 gallons	Cleaned up w/ vacuum truck/ washed slab w/BFW	BFW running in drain to keep clear
6 Nov 96	Refinery OWSS	Oily sewer water	Leak site	Unknown	Potential leak identified April -June	Leaks repaired
6 Nov 96	Tank 23	VTB	Leak in 10" "Make-line" pipe	Unknown	Removed contaminated soil	Removed and replaced leak site
10 Jan 97	Recovery Well R-41	Contaminated Groundwater	Split pipe due to back up pressure on line	approx. 200 gals	clean up not feasible contaminant measured in ppm samples taken	Repaired pipe

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
27 Apr 97	Recovery Well R-21	Contaminated Groundwater	Split pipe due to back up pressure on line	approx 4,000 gals	clean up not feasible contaminant measured in ppm	Repaired pipe
5/7/97	Recovery Well R-20	Groundwater w/ benzene	Split line due to vapor lock at discharge pump	Approx. 1,000 gals	clean up not feasible contaminant measured in ppm samples taken	Repaired pipe
8/29/97	P650	Asphalt	FL=Leaking flange	< 2 bbls	Removed asphalt	Tightened Flange
4/04/98	Asphalt Load Rack	Asphalt	HE-OE-No PSI Relief	60 – 65 gals	Turned off heat trace; crew called in to cleanup	Repair gear box seal.
5/21/98	Sulfur Storage	Liquid Sulfur	MF-TR=Ball valve on vacuum truck drain stuck pen	32,000 lbs	Remove solidified sulfur	Quicker discharge before it sets up in drain valve.
8/19/98	TSS Filter-Back wash tank	Treated water	MF-GW=back wash tank overflow-TSS Filter will not handle over 250 gpm	< 2 bbls	None	I/E Shop working on it.
8/20/98	TSS Filter-back wash tank	Treated water	MF-GW=Back wash tank overflow	2-3 bbls	None	Shut down system for season; reassess in spring.

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
10/28/98	RBC's	RBC Effluent Water	HE-VA=Bypass valve left open	<2,180 gals	Stopped flow to Bio Disk pumped out containment	Recommend Bio Disk procedure be reviewed and followed
1 Apr 99	Between Tanks 12 & 25	Hot oil (jet A or diesel fuel)	External corrosion on a pipeline fitting caused by absence of protective coating.	~15 barrels	Excavated ~15 cubic yards of contaminated soil.	Repaired pipeline. Conducted investigation of subsurface impacts including soil and groundwater sampling.
4/29/99	Tank 32	DFA	MF-VA= Leaking valve seal (packing)	< 2 bbls	Removed contaminated soil	W.O. Line Repair.
10/30/00	Asphalt Loading	Asphalt	Malfunction of meter	55 gallons	Removed asphalt and placed	Fixed meter
4/13/01	20" RC Line	LCO	Leaking flange	>55 gallons	Uncovered and tightened flange. Excavated ~200 cubic yards of contaminated soil.	Line repaired - Replaced flange with welded pipe section.

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
5/22/01	Reformer Unit	Oily water	Corrosion of sewer cup	Less than 1 gallon per day. Duration unknown.	Sewer cup bypassed pending repair. No cleanup was conducted because the location is in a process unit.	Replaced sewer cup in-kind.
8/13/01	Lansco Equip, Tank 14	DF-2	Over-pressuring of line	200 gallons	All free product removed and contaminated soil cleaned up	Contractor procedures initiated and implemented
9/06/01	2000-hp pump	Crude oil	Leaks through conduit sleeves in pump foundation.	Unknown.	Free product and steam condensate recovered with a vac truck. Contaminated soil adjacent to foundation excavated to two feet.	Sealed conduit sleeves.
9/9/01	Recovery well RE-36	Contaminated groundwater	Heat trace failure and resulting ruptured pipeline.	Unknown.	None.	Evaluated condition of heat trace along recovered groundwater pipeline.
9/29/01	P-605B	LCO	Bearing Seal leak	126 gal	Contaminated soil removed	Packing adjustment

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
11/5/01	API Slab	Oily Water	Failure to verify vac-truck was empty	201 gal (C)	Spill material recovered. Contaminated ice removed	Contractor procedures reviewed
12/3/01 & 12/10/01	Recovery wells R-39 and R-53	Contaminated groundwater	Cold-weather related pipeline failures at two locations	Unknown.	None.	None.
2/1/02	Sulfur Unit	Liquid Sulfur	Pump shutdown switch failure	55 gal (C)	Spill material recovered. Sulfur removed	Procedure revised to check switches.
6/23/02	PMA Area	Asphalt	Operator Error Tank Overfill	126 gal (C)	Asphalt removed	Review procedures
8/12/02	Load Rack	Asphalt	Operator Error Tank Truck Overfill	84 gal (C)	Asphalt removed	Review procedures
11/3/02	Tank Farm	Jet A	Earthquake - Product leaked thru PVSV	55 gal (C)	Contaminated soil removed	Lowered level in tank
2/4/03	Nikiski Terminal	Jet A	Heavy rain - Sump level alarm failure	84 gal (C)	Spill material recovered. Vac trucks removed product	Sump level alarms & aux alarms repaired

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
5/1/03	Recovery well R-23	Contaminated groundwater	Valve failure on recovered groundwater pipeline after unplanned shutdown.	Unknown. Estimated release duration of 2 to 4 days	None. Most of the released water drained down well R-23 and the remained rapidly infiltrated.	Isolated out-of-service recovery wells using blind flanges. Modified procedures related to unplanned shutdowns.
11/11/03	Tank Farm Temp oily/water sewer	Oily Water (less than 1% oil)	Temporary Oily Sewer Line failure	126 gal	SuperSucker removed contaminated soils / Vac truck removed oily water.	Review work practices
3/24/04	Tank Farm VTB piping North of 22 Tank	VTB	Operator error Incomplete removal of diesel from a pipeline undergoing modifications.	840 gal (C) 42 gal	Spilled diesel fuel and contaminated soil, snow and ice were recovered using a vac truck. ~300 cubic yards of soil were excavated	Verify line pressure Follow work practices
11/9/04	Tank Farm Tank 66	Reformate	Mixer seal failure	5400 gal (C)	Spill material recovered. Contaminated snow and soils removed	Removed Mixer shaft Installed pipe cap on bushing penetration
2/2/05	VTB make line S. of Crude Unit	VTB	VTB Liquid picked up w/Vac-Truck, solidified remainder shoveled up	630 gal	Spill material recovered. Contaminated soil removed	Install permanent heat tracing Modify work practice on thermal relief

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
5/11/05	API Slab & West area of API Bldg	Oily Water	Fire suppression	210 gal (C) 168 gal	Spill material recovered. Contaminated soils removed approx 12.5 gal free product	Options for increasing API capacity evaluated. The transfer line to 04D will be replaced in 2008 with increased capacity.
10/4/05	Oily-water sewer system	Oily water	Coating failures on Hydrocracker seal box 7 and Hydrogen Unit seal boxes 5 and 6.	Unknown, Maximum leak duration of 2 years.	Seal boxes taken out of service. No cleanup conducted because the locations are in process units.	The seal box coatings were repaired. The hydrocracker seal box 7 was retrofitted with a steel liner in 2007.
10/5/05	Tank Farm	Drilling mud	SuperSucker hatch failure while installing deep well anode bed.	100 gal	Spill material recovered. Bentonite drilling mud spilled out of SuperSucker hatch	Contractor investigated SuperSucker ram failure. Ram changed out.
11/28/05	Process Water	Tank Farm	Failure (Freezing) of filter pots	500 gal	None - clean process water	Blocked in filter pots

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
5/2/06	DF2 flush line	Diesel fuel	Exterior corrosion of buried pipeline.	Unknown, Max leak duration of 15 days.	Excavated ~22 cubic yards of contaminated soil.	Exposed and examined buried pipelines in area of spill for similar corrosion.
9/26/06	Reformer oily-water sewer system	Oily water	Coating failure in seal box 2.	Unknown, Maximum leak duration of one year.	Seal box taken out of service. No cleanup conducted because of location in process unit.	Retrofitted steel liner in seal box in May 2007.
11/27/06	Recovery well R-24	Contaminated groundwater	Pipe fitting froze and failed.	Uncertain but likely several thousand gallons.	Recovered 50 to 100 gallons of water with a vac-truck. Sampling indicated spill did not impact nearby pond.	Implemented daily pipeline inspections. Eliminated deadleg segments of pipeline.
9/29/06	Tank Farm Tank 37	DF2, LCO & VTB mixture	Seal failure P-605 A	25 gal (C) 30 gal	Spill material recovered. Product cleaned with Vac	Containment Curb installed in Cathouse
11/27/06	Recovery Well R-24	Water very light hydrocarbon in low PPM range	Frozen water line	1000 gal	Spill material recovered. Contaminated snow and soils removed	Line capped off

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
4/17/07	Reformer oily-water sewer system	Oily water	Failure of pipe plug in piping used to bypass seal box 2. The seal box had not been repaired after the 9/26/2006 incident so a release was possible.	Unknown, Maximum leak duration of 12 hours.	Pumped down seal box 2 and replaced failed plug. No cleanup conducted because of location in process unit.	Retrofitted steel liner in seal box in May 2007.
6/14/07	Reformer oily-water sewer system	Oily water	Coating failure in seal box 1.	Unknown, Maximum leak duration of 8 to 9 months.	Seal box taken out of service the day the release was discovered. No cleanup conducted because of location in process unit.	Retrofitted steel liner in seal box in July 2007.
04/13/08	Reformer unit	Naphtha	Partially plugged drain valve / high psi	105 gal	Contaminated ice & snow shoveled into drums	Amended operating procedures
6/12/08	Tank Farm Oily Water Sewer System	Oily Water	Separated weld seam	55 gal	Vacuum truck used to remove product. Contaminated soil removed.	Repaired line
2/20/09	Tank 12 Mixer	Jet	Seal failure	10 gal	Contaminated snow, ice & soil removed.	Seal repaired

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
5/6/09	Tank 12	Jet	Leak on mixer seal	55	Contaminated soil removed.	Seal repaired
10/31/09	Tank Farm Oily Water Sewer System	Oily Water/Crude	Corrosion in lift station discharge line	55 gal	Contaminated soil removed.	Line re-routed – new line planned for 2010
11/19/09	Crude Unit	Crude Oil	Frozen valve	210	Oil sent to Oily water sewer system	De-Salter Unit Inlet Valve replaced
4/27/2010	Reformer Unit	Oily Water	Oily Water Sewer line leak from sewer cups for P204s, P202s, V-201 and V-204	55+ gal	Contaminated soil was removed	Drain lines were replaced.
7/27/2010	Lab	Hydrocarbon Samples	Broken glass drain pipe underneath the lab's sink (contaminated soil)	75 gal	Contaminated soil and water were vacuumed up and disposed.	Damaged line was replaced.
7/31/2010	Asphalt Rack	Asphalt	Leaking control valve	84 gal	Asphalt rolled up and disposed.	Manual valve blocked
10/26/2010	R-48 Recovery Well	BETX contaminated water	Glue failure on PVC flange of R-48.	1000 gal	Contaminated water vacuumed off ice and disposed	Damaged line was replaced.

Table 2.2-2

KENAI REFINERY SPILL HISTORY JANUARY 1992 TO SEPTEMBER 2012
(SPILL VOLUMES GREATER THAN 55 GALLONS) EPA REPORTABLES LISTED IN ITALICS

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
2/21/2012	R001	Hydrocarbon contaminated water	During change out, new carbon slurred into the vessel of water from the old carbon, was drained to the ground instead of the vac truck. DEC was contacted.	500 gal	Contaminated water vacuumed off ground and disposed	Carbon changeout procedures reviewed and modified.

(C) Inside secondary containment

Table 2.2-3

TESORO ALASKA PIPELINE SPILL HISTORY JANUARY 1992 TO JUNE 2010
(SPILL VOLUMES GREATER THAN 55 GALLONS)

Date of Incident	Location of Incident	Substance Discharged	Cause of Incident	Amount of Discharge	Containment/Clean-up of Discharge	Preventative Action Taken
7 Apr 93	Port Road	Jet A	Transmix Tank Overflow	100 bbls	Product and contaminated soil removed	Replaced faulty valve
13 Apr 00	Port Road	Jet A	Valve over-pressure	1000 gal	Product and contaminated soil removed	Re-trained operators on newly installed control system
29 Jun 00	Pipeline Pump F-2001 A	DF-2	Filter Pot Failed Gasket	94 gal (C)	Cleaned product from secondary containment	Replaced gasket Closely inspect gaskets
31 Jul 01	Captain Cook Mile 13.75	Jet A	Corrosion	Unknown	Product and contaminated soil removed	Line repaired, other areas examined and repaired as a result of smart pigging.
7 Sep 01	Anchorage Airport	Gasoline	Third Party Damage	100-200 gal	Product and contaminated soil removed	Review of line locate policy
17 Dec 03	ANC Pipeline Receiving Station	Jet A	Leaking valve and alarm failure	147 gal	Product and contaminated snow and soils removed	Replace leaking drain valve Replace high level alarm and added an independent high/high level switch.

2.3 POTENTIAL DISCHARGE ANALYSIS

Oil spills within the Kenai Refinery, Nikiski Terminal, or Anchorage Pipeline Terminal should remain on Tesoro property. Spills from lines leading to Conoco Phillips or KPL could escape into Cook Inlet. Appendix B has a map which shows drainage patterns for the Tesoro Refinery.

Spills from the Tesoro Alaska Pipeline could enter streams adjacent to the pipeline and escape into Cook Inlet. Lakes, rivers streams, and wetlands along the Tesoro Alaska Pipeline are especially sensitive since it crosses or is adjacent to the Kenai National Wildlife Refuge for much of its route.

Potential future spill volumes have been estimated based on pumping rates, discovery times, tank volumes, and line drainage volumes. The following spill volume estimates are provided and the response planning standards are calculated based on Tesoro operating data:

2.3.1 STORAGE TANK FAILURE

The worst case discharge planning standard for this facility is the loss of Tank 25 which is our largest tank. (b) (7)(F) bbls and normally contains residual products such as Bunker C Oil or #6 Fuel Oil. The second largest tanks normally contain crude oil and have shell (b) (7)(F). All tanks are surrounded by secondary containment areas which are sufficient to hold the entire contents of the largest tanks. Geographical restraints will prevent the product from any of our tanks from reaching Cook Inlet if a major catastrophe causes a breach of the secondary containment dike.

2.3.2 STORAGE TANK LEAKS OR OVERFLOWS

The maximum receiving rate for the refinery is 30,000 bbls per hour. The total amount of product from a tank overflow is dependent on the pumping rate, spill discovery time, and shutdown time. A significant tank overflow would be 6,000 bbls if it took 12 minutes to discover the spill and shutdown pumps. This volume would be contained within the secondary containment system which is around every tank.

Storage tank leaks of any size have occurred only rarely in our facilities. It is more common to have leaks of less than 10 gallons generally associated with releases from valves, flanges, and tank mixers. Catch basins have been installed under many of these locations in the tank farm.

Analysis of previous spills has shown the most likely large spill event will be caused by overfilling a tank either through human error and/or high level alarm failure. Spills of 100-150 bbls identified in this Plan have been caused by tank overfilling. Oil has also been spilled from Tesoro storage tanks as a result of seismic events. Tesoro is using redundant gauging systems, high and high-high level alarms, manual gauging, reduced loading rates at the start and end of transfers, and frequent human observation to reduce the number of tank overfills.

2.3.3 SPILLS AT NIKISKI TERMINAL

The maximum loading rate for a tank truck is 600 gallons per minute. It is estimated that a spill from truck loading could be 600 gallons since a truck driver is continuously present and shutdown controls are immediately accessible.

Operating history has shown that tank truck driver operator error or equipment failure while loading is in progress has been the most common cause of spills from truck loading racks. These spills were generally in the 1 to 300 gallon range. All load rack operations are manually initiated and continuously monitored by the drivers. Emergency shutdown switches are clearly marked.

A concrete pad that drains to a double-wall underground sump adjacent to the loading rack at the Nikiski Terminal. Most spills are retained on the concrete and drain to the sumps. This has been successful in preventing recent truck loading spills from reaching the ground.

2.3.4 TRANSFER PIPELINE LEAKS OUTSIDE IMPOUNDMENT AREAS

The maximum flow through piping occurs during refinery crude receipts. The normal flow through this system is 15,000 bbls/hr., but it has a maximum rated capacity of 25,000 bbls/hr. A significant pipeline spill would be 4200 bbl if a 10 minute discovery and shutdown time is assumed.

It has been rare to experience leaks from above ground transfer lines. Above ground leaks are generally less than 10 gallons and occur from flanges, valves, or sample points. Tank farm operators are routinely instructed to watch for and repair "drips and drops."

Small leaks occasionally occur in hose and flange connections at the dock. These have been less than 10 gallons since this equipment is routinely tested and replaced.

Leaks from underground transfer lines have the potential to cause problems. Typically these leaks occur at low rates from pinholes caused by corrosion. Corrosion control programs have been established, operators have been instructed to watch for soil discoloration from subsurface leaks, and inventory control methods have been instituted to detect and prevent these leaks.

2.3.5 LEAKS FROM UNDERGROUND OILY SEWER LINES

Previous leaks from oily sewer lines have caused groundwater contamination under the refinery. Many sewer hubs and connections have been excavated and replaced. Tesoro has initiated an annual program of testing these lines and replacing any line found to be suspect.

Based on experience gained during testing and repairs of the OWS system, Tesoro has initiated a program to replace all the oily water sewer hubs (boxes) with steel liners within the Refinery Unit Control areas. Current testing includes a hydrolic test of the oily water sewer system.

2.3.6 TESORO ALASKA PIPELINE LEAKS

The Tesoro Alaska Pipeline transports refined petroleum products from the Tesoro Kenai Refinery to Anchorage. The pipeline is 10-inches in diameter and approximately 70 miles in length with manual and

remotely block valves located approximately every 15 miles. The design throughput is 48,000 bbls/day, although the system generally operates at 24,000 to 44,000 bbls/day.

Maximum static volume of the largest segment between valves is (b) (7)(F) . This volume is contained in the pipeline section between the Tesoro Kenai Refinery and a valve located just south of the crossing at Swanson River. A more sensitive area may be the crossing under Turnagain Arm between valves at Point Possession and Point Campbell which has a static volume of (b) (7)(F) .

The total amount of product spillage from a pipeline failure is dependent on the pumping rate, spill discovery time, shutdown time, and line drainage. The percentage of line drainage is based the variety of elevation changes along the pipeline route. Tesoro believes a worst case spill when pumping at a rate of 45,000 bbl/day (31 bbl/min) from the largest pipeline section which contains (b) (7)(F) would be (b) (7)(F) based on the following estimate:

30 minutes to discover leak and shutdown system	=	(b) (7)(F)
25% line drainage (Approximate)	=	

Public notices, inspections, and corrosion control programs have been used to prevent leaks from this system. Tesoro has installed Motor Operated Valves (MOVs) along the pipeline route. The pipeline can be isolated from either the Refinery Control Center or the Anchorage Control Center. The Tesoro Alaska Pipeline has an aggressive smart pigging program in place.

2.3.7 REFINERY PROCESS LEAKS

Leaks from the refinery units have been rare. The process units hold the potential for significant leaks especially during a catastrophic event, but operator training, preventative maintenance, refinery turnarounds, extensive testing, and good operating practices have minimized these leaks. History has shown that discharges from the Tesoro refinery operating units are uncommon and generally less than 10 gallons.

2.3.8 SUMMARIES OF DISCHARGE ESTIMATES

Table 2.3-1 provides a summary of the potential discharge volumes from this facility with respect to persistent and non-persistent groups as defined by federal regulations.

Table 2.3-1

ESTIMATE OF POTENTIAL DISCHARGE VOLUMES IN BARRELS
BY USCG OIL GROUP DEFINITIONS

(b) (7)(F)

[redacted]

2.4 CONDITIONS THAT MIGHT INCREASE THE RISK OF DISCHARGE

There are no known naturally occurring conditions that would increase the risk of discharge at the Kenai Refinery, the docks, or the pipeline to Anchorage, beyond what was anticipated in the design and construction of these facilities. E

The Tesoro facilities covered by this Plan are not located on flood plains. The Tesoro Alaska Pipeline crosses under several streams. Routine aerial surveillance is used to monitor changes in the stream bed that could expose the pipeline.

2.4.1 SEISMIC ACTIVITIES

The Cook Inlet area of coastal Alaska is seismically active and has experienced severe and damaging earthquakes in the past.

The refinery and pipeline were constructed in 1969 and 1976 respectively, after the 1964 earthquake (8.3 to 8.6 on the Richter scale). The pipeline from the refinery to Anchorage was designed and built to withstand ground velocity shock waves from an earthquake of magnitude 8.58 on the Richter scale. Bulk storage tanks and facility transfer piping have been designed and constructed according to applicable API and industrial specifications.

Ground movement during earthquakes has created waves of oil in the storage tanks and caused it to splash out of roof vents. Spills caused by earth movement have been in the 100 to 300 bbls range. The spilled oil remained within the containment dikes.

2.4.2 TSUNAMI WARNING

Normally the Palmer Earthquake Observatory will initiate a Tsunami Warning through the State Troopers to the Cook Inlet operators. If a warning is received the immediate action will be to secure all loading operations and the ship will leave the dock. Tsunamis should not be a factor for the operations of the Tesoro Alaska Pipeline, Nikiski Terminal or the Kenai Refinery.

2.4.3 WINTER CONDITIONS

The facilities under this plan are designed, constructed and operated with considerations for sub-arctic climate conditions.

Permafrost is not present beneath the Plan facilities.

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2.5 EXISTING AND PROPOSED DISCHARGE DETECTION

Leak detection methods in place at the refinery, docks and pipeline from the refinery to Anchorage were described in detail in Section 2.1.4. “Transfer Procedures" and Section 2.1.6 "Operating Checklists and Operating Reports."

2.5.1 DISCHARGE DETECTION FOR EXISTING INSTALLATIONS

Control room operators are in continuous radio contact with field operators during all bulk deliveries and transfers. Frequent visual inspections of pipelines, tanks, and operating equipment have resulted in the discovery of most oil spills from this facility. Bulk storage tanks are equipped with high level alarms which alert control room operators, and sound an audible alarm when the tank contents exceed approximately 90% of storage capacity.

An Electronic Data Monitor system is used to create and maintain storage tank inventory records and detect product loss which could result from storage tank leaks. Tanks are continuously gauged by electronic data monitors. This instrumentation, which is temperature sensitive, provides control room operators with tank level updates every 2 minutes. All overflow alarms, gauging and inventory instrumentation are maintained and calibrated to manufacturers' specifications. All tank high level alarms are tested monthly. The accuracy of the Electronic data monitoring measuring system is frequently confirmed by comparison to manual gauging data. All tanks are manually strapped at a minimum of once a week and compared to the Varec gauging system. If a transferred from a vessel is conducted tanks are manually strapped prior to receiving cargo and upon the completion of the transfer. In addition, tanks are checked electronically every 2 hours during transfer.

Leak detection to meet the requirements of 18 AAC 75.065(h)(1)(A) and 75.065(j)(4)(A) is achieved via double bottom tanks (Tanks 20, 24 and 25) or thick film liner (Tank 67), as previously described. Perforated piping installed in the interstitial sub-tank space is routed to valved surface monitoring ports adjacent to the tank perimeters, which are visually monitored by operators monthly via regular tank inspections, unless precluded by safety concerns or weather conditions (18 AAC 75.075(c)).

Groundwater monitoring wells have been installed throughout the facility in the four aquifers closest to ground surface. Downgradient perimeter monitoring wells are sampled and analyzed for petroleum hydrocarbons as described in Tesoro’s RCRA Part B Post-Closure Permit, jointly administered by USEPA and ADEC.

The discharge of facility effluent to navigable waters is in accordance with the facility NPDES permit. The process facilities are frequently observed to detect possible system upsets that could cause an oil spill through the NPDES outfall line.

Minor leaks from tank piping, gaskets, and bolts are promptly corrected when discovered. Any leak is immediately repaired; the Area Supervisor will isolate the leak by closing appropriate valves, drain the lines, or take any prudent action necessary to prevent oil spillage. Tank piping inspections are conducted and logged on a weekly scheduled basis. However Tesoro personnel are in these areas on a daily basis and promptly report any noted deficiencies.

2.5.2 DISCHARGE DETECTION FOR PIPING

All above-ground piping and valves are inspected visually for leaks or damage during routine operations, or at least monthly.

2.5.3 DISCHARGE DETECTION FOR TESORO ALASKA PIPELINE

(b) (7)(F)

[redacted]

[redacted]

[redacted]

2.6 FACILITY WAIVERS IN EFFECT

18 AAC 75.424(e)(2)(F) (waivers):

2.6.1 Bentonite Enhanced Soil Secondary Containment

Tesoro has approval from ADEC regarding the use of bentonite enhanced soils for meeting sufficiently impermeable secondary containment requirements for bulk fuel tanks (ADEC, November 19, 1998 –see Figure 2.6-1). This approval is for the Tesoro Refinery including the Nikiski Terminal and Kenai Pipeline Company. It is Tesoro's responsibility to monitor the integrity and performance of this system and ensure that it continues to meet state requirements.

As such the Department's approval is contingent upon the following conditions:

1. Tesoro must perform annual inspections on each liner system to monitor for the effects of frost heaving and any other conditions that may affect the integrity of the liner performance. Tesoro must ensure that the liner has maintained its permeability through freeze/thaw cycles. Tesoro must also ensure that the appropriate levels of hydration are maintained in the liner to ensure adequate performance. The method (s) and schedule for performing these inspections must be outlined and included in the facilities contingency plan. Records of these inspections must be maintained and made available to the department upon request.
    - Annual secondary containment inspections are conducted and documented. These annual inspections include:
        - Potholing the bentonite liner to inspect for sufficient hydration and to confirm no damage due to freeze/thaw cycles.
        - Visually inspecting the bentonite liner for erosion, tire rutting and other damage to the operations layer (the gravel cover which protects the underlying bentonite liner).
    - Tesoro reserves the right to conduct additional, more detailed inspections of the Secondary Containment areas (not subject to Department approval) to confirm the long term viability of the Bentonite liner system. The following items would be included:
        - Spray-on liner
        - Geomembrane liner
        - Concrete
        - Drainage systems
        - Liner penetrations
    - Visual inspection of Secondary Containments is conducted on a weekly basis.
    - Visual inspections of Bulk Storage Tanks (includes piping and secondary containment) are be conducted on a monthly basis.
2. Tesoro must submit a written request to the Department regarding any proposed changes to the liner installation schedule as currently approved by the department.

3. The schedule for the installation of Bentonite Liners installation has been completed. Tesoro must report to the Department any new information that indicates any of the secondary containment systems have failed or may not otherwise be meeting the performance standards required by the state for sufficiently impermeable secondary containment.

4. The currently approved contingency plans for the affected facilities must be revised to reflect approval of this ACS.
    - The schedule for bentonite liner installation has been completed at all Tesoro facilities approved by this approval.
    - All records of inspections will be maintained and made available to the Department upon request.

2.6.2 51 Tank Leak Detection Waiver

Tesoro has approval from ADEC regarding the requirements for a spray-on internal liner for Kenai Refinery asphalt tank 51 (ADEC, May 5, 2008 – see Figure 2.6-2).

2.6.3 Routine Waivers

Tesoro requests short-term approvals and waivers from the Department as required for facility maintenance and operations, typically for secondary containment breaches and/or temporary oil storage tanks. Request, approval, and conditional requirement records are maintained as stipulated.

2.7 BENTONITE ENHANCED SOIL SECONDARY CONTAINMENT SYSTEM AGREEMENT

Tesoro has approval from ADEC concerning compliance with the Leak Detection / Prevention requirements of 18 AAC 75.075 regarding the use of bentonite enhanced soils for meeting sufficiently impermeable secondary containment requirements for bulk fuel tanks. This approval is for the Tesoro Refinery including the Nikiski Terminal and Kenai Pipeline Company. It is Tesoro's responsibility to monitor the integrity and performance of this system and ensure that it continues to meet state requirements.

As such the Department's approval is contingent upon the following conditions:

1. Tesoro must perform annual inspections on each liner system to monitor for the effects of frost heaving and any other conditions that may affect the integrity of the liner performance. Tesoro must ensure that the liner has maintained its permeability through freeze/thaw cycles. Tesoro must also ensure that the appropriate levels of hydration are maintained in the liner to ensure adequate performance. The method (s) and schedule for performing these inspections must be outlined and included in the facilities contingency plan. Records of these inspections must be maintained and made available to the department upon request.
    - Annual secondary containment inspections are conducted and documented. These annual inspections include:
        - Potholing the bentonite liner to inspect for sufficient hydration and to confirm no damage due to freeze/thaw cycles.
        - Visually inspecting the bentonite liner for erosion, tire rutting and other damage to the operations layer (the gravel cover which protects the underlying bentonite liner).
    - Tesoro reserves the right to conduct additional, more detailed inspections of the Secondary Containment areas (not subject to Department approval) to confirm the long term viability of the Bentonite liner system. The following items would be included:
        - Spray-on liner
        - Geomembrane liner
        - Concrete
        - Drainage systems
        - Liner penetrations
    - Visual inspection of Secondary Containments is conducted on a weekly basis.
    - Visual inspections of Bulk Storage Tanks (includes piping and secondary containment) are be conducted on a monthly basis.
2. Tesoro must submit a written request to the Department regarding any proposed changes to the liner installation schedule as currently approved by the department.

3. The schedule for the installation of Bentonite Liners installation has been completed. Tesoro must report to the Department any new information that indicates any of the secondary containment systems have failed or may not otherwise be meeting the performance standards required by the state for sufficiently impermeable secondary containment.

4. The currently approved contingency plans for the affected facilities must be revised to reflect approval of this ACS.
    - The schedule for bentonite liner installation has been completed at all Tesoro facilities approved by this approval.
    - All records of inspections will be maintained and made available to the Department upon request.

PART 3
SUPPLEMENTAL INFORMATION

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3.1 FACILITY DESCRIPTION

3.1.1 KENAI REFINERY

Tesoro's Kenai Refinery is located on 131 fenced acres, and is rated based on the crude unit to have a capacity of 72,000 Barrels per day, although the refinery typically operates in the 50,000 bbl/day range. Crude is received via a pipeline from Tesoro's adjacent KPL facility. Refined products occasionally received via KPL pipelines, and distributed via pipelines to the Nikiski Terminal, Tesoro Alaska Pipeline (to Anchorage) and to KPL. Connections to KPL include one 20" VTBB line, one 24" crude oil line, one 12" diesel line, one 10" jet line, one 10" gasoline line, one 8" gasoline line, and a 16" gasoline line.

The refinery consists of fractional distillation and catalytic process units which convert crude oil into fuels and asphalt, a tank farm for storing crude oil, intermediate products, and finished products, and other support units and buildings (such as water processing). Plot plans which show the lay-out of the refinery are provided in Appendix C. Tables 3.3-1 and 3.3-2 provide refinery and miscellaneous tank construction, inspection requirements and schedules, and high level alarm information. Tank secondary containment areas were described in detail in Section 2. An asphalt and propane truck loading rack is located near the northwest entrance to the refinery. The refinery process area is covered with concrete. See Leffler & Meisner for general information on refining and pipeline (Bibliography Section 3.11)

Storage, process, and distribution operations of the Tesoro Kenai Refinery are under the direct control of trained Shift Supervisors who are responsible for operation and spill prevention. The process areas and tank farm are frequently observed by trained operators to detect possible system upsets that could cause an oil spill. Visible leaks from piping, gaskets, and bolts which might cause an accumulation of oil are promptly corrected. If a leak cannot be immediately repaired, the supervisor will isolate the area by closing appropriate valves, draining the lines, and taking all prudent action required to prevent any oil spillage.

Table 3.1-1 provides information on the physical properties of ANS crude, Cook Inlet crude, and some of the Tesoro products stored at the Refinery and Nikiski Terminal. Material safety data sheets (MSDS's) for these materials and other materials used at the facility are available on the Refineries computer network. Hard copies of the MSDS's are available from the Tesoro Safety Department.

Ground water contamination from historic releases is present at the refinery. An extensive groundwater monitoring and remediation program is in place regulated by Tesoro's RCRA Permit with the US EPA.

TABLE 3.1-1

PHYSICAL PROPERTIES OF SELECTED HYDROCARBON PRODUCTS

	ANS Crude	CI Crude	Gasoline	Jet A	ULSD-1	ULSD-2	HVGO	380 Cst Bunkers	900 Cst #6 FO
Initial Boiling Point, ^{O}F	108	89	75	300	280	400	500	400	580
10 % Boiling Point, ^{O}F	205	183	115	330	360	490	830	600	800
End Boiling Point, ^{O}F	>1,000	>1,000	325	535	540	630	>1,000	>1,000	>1,000
Flash Point, M.P, ^{O}F	<0	<0	<0	100	100	140+	>240	140+	>200
API Gravity @ 60° F	31.5	32.7	57-64	37-51	32-39	42-45	17-19	11.4-16	10.1-13.0
lbs/bbl	304	301	256	290	307	281	332	336	336
lbs/gal	7.24	7.19	6.1	6.9	7	6.7	7.9	8.2	8.2
Pour Point, ^{O}F	-20	10	<-60	-80	-80	-8	115	60	60
Viscosity, Cst at ^{O}F	7.36 at 104°	7.03 at 100°		4.3 at -4°	1.32 at 104°	3.50 at 104°	26.0 at 210°	360 at 122°	1950 at 122°
Percent Sulfur	0.9	0.11	<0.01	0.05	0.001	0.001	1.25	1.5	1.75
Percent Aromatics			34	19.5					
Percent Ash			<0.001	<0.001	<0.001	<0.001		0.02	0.02

(b) (7)(F)

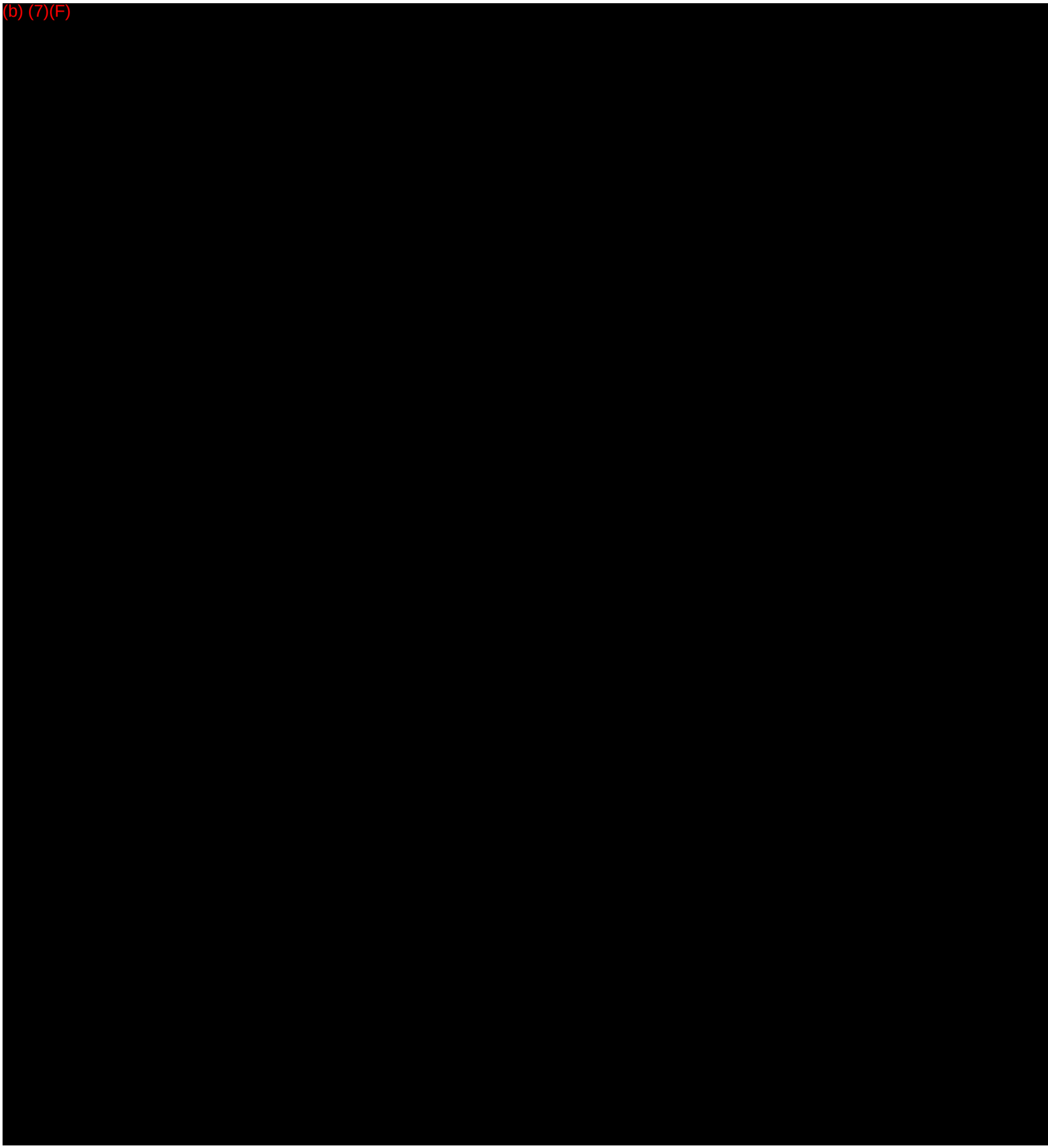

Table 3.1-3

MISCELLANEOUS TANK SUMMARY

(b) (7)(F)

[redacted]

3.1.2 NIKISKI TERMINAL

Nikiski Terminal is a finished product tank farm and truck loading facility on 5.3 fenced acres approximately two miles south of the refinery. Petroleum products are transferred from the refinery to the Nikiski Terminal via pipelines. Tank use, construction and inspection details are also provided in Table 3.1-2. Tank secondary containment is bentonite amended gravel as described for the Kenai Refinery.(b) (7)(F) [redacted] petroleum products, a 2-bay truck loading rack, and an oily water collection system. Schematic diagrams of the Nikiski Terminal are provided in Appendix C.

Truck Rack entry is gained through an automatic card-activated system The tank farm and transfer pump area is padlocked. The Nikiski Terminal tanks, dikes, gauging, Varec system, and radio communications equipment are similar to those that are located within the refinery.

Bottom drain lines from all the tanks, the concrete pump pads, and the concrete truck loading bays drain to a lift station. Storm water, tank drainage, and oil spills from the concrete pads flows to the lift station by gravity then pumped to a 1,000 barrel storage tank. Water and oil from the 1,000 barrel tank is transported by truck from the Nikiski Terminal to the refinery for treatment.

3.1.3 TESORO ALASKA PIPELINE

The Tesoro Alaska Pipeline, transports refined petroleum products from the Tesoro Kenai refinery to Anchorage. It is a 10-inch diameter pipeline approximately 68.7 miles long with block valves located approximately every 15 miles plus valves on either side of the Swanson River and Turnagain Arm Crossings. The pipeline is constructed of the following types of pipe:

- API 5LX-52 ERW steel pipe with a wall thickness of 0.219 inches from the Nikiski Pump Station to Point Possession.
- API 5L Grade B seamless steel pipe with a wall thickness of 0.625 inches across Turnagain Arm to Point Campbell.
- API 5LX-52 with a 0.219 inch wall thickness to Northern Lights Boulevard.
- API 5LX-52 with a 0.25 inch wall thickness to the Anchorage Pipeline Receiving Facilities.

During construction of the pipeline, all pipe girth welds were x-rayed and visually inspected, and the finished line was hydrostatically tested. To protect the pipeline from corrosion, the pipe is coated with a factory-applied extrusion of high-density polyethylene.

Additional features and procedures are present to help minimize and prevent leaks during product transfer through the pipeline. Alarms sound at the receiving facility under the following conditions:

- High pipeline delivery pressure
- High liquid level in sump
- High liquid level in 1,000 bbl transmix tank (incorporated in Tesoro's Anchorage Terminal 1 Plan as discussed in Part 2).
- High discharge pressure switch.

Additional procedures used during transfer include:

- Hourly monitoring of input and output volumes by pump station and receiving station personnel.
- Hourly telephone calls between operators to compare readings.
- Daily calculation of pipeline measurement balance by the Operator.
- A batch by batch line balance calculation is made by the Anchorage Pipeline Operator.
- Continuous monitoring of flow and pump discharge pressures.

As shown in Appendix C, the pipeline starts at the pump station located at the Tesoro Kenai Refinery, parallels the Conoco-Phillips gas line in a northeasterly direction approximately 30 miles to Moose Point, then follows the Kenai Peninsula shoreline approximately 15 miles to Point Possession. The route crosses Turnagain Arm from Point Possession to Point Campbell, where it comes ashore and parallels the bluffs in a northerly direction across the approach area of the east-west runway of Anchorage International Airport. The pipeline then turns northeasterly, crosses under the north-south runway, and enters the Northern Lights Boulevard right-of-way near its intersection with Hood Lake Road.

The pipeline turns east and parallels Northern Lights Boulevard along the south side to Turnagain Street, where it crosses to the north side of Northern Lights Boulevard. The pipeline then parallels Northern Lights Boulevard on the north until it reaches the Alaska Railroad, at which point it enters the west side of the railroad right-of-way. The pipeline parallels the railroad to the west, crossing under Fish, Chester and Ship Creeks. After crossing Ship Creek, the pipeline extends north and east until it becomes adjacent to Ocean Dock Road beginning at the Flint Hills Oil Terminal, then north along Ocean Dock Road to the Tesoro Anchorage Terminal. Color photographs are provided in Appendix C that shows pipeline stream crossings and the mouths of several of these streams where they enter Cook Inlet.

Static Volume of Pipeline between Valves

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

(b) (7)(F)

*The pipeline crosses Turnagain Arm between Point Possession and Point Campbell.

There are ten main line valve (MLV) stations along the pipeline route shown in Appendix C. They are:

- MLV # 1: Manual valve at the pump station within the Refinery.
- MLV # 2: Remote actuated valve on the South side of the Swanson River.
- MLV # 3: Remote actuated valve on the North side of the Swanson River.
- MLV # 4: Remote actuated valve near Moose Point.
- MLV # 5: Remote actuated valve near Point Possession MLV # 6: Remote actuated valve at Point Campbell (Anchorage landfall).
- MLV # 7 & 8: Manual valves at the ASIG (Airport) Tie-in.
- MLV # 9: Remote actuated valve near Northern Lights Boulevard (Fish Creek dip).
- MLV #10: Maunal block at Port of Anchorage past receiving trap.

The products transported through the pipeline include gasoline, diesel and jet fuels. It has a maximum throughput of 48,000 barrels per day with both system pumps operating; however, the system generally operates at 24,000 to 44,000 bpd. Pumping rates vary with the specific gravity of the product.

Product batches are transported without mechanical separators.

Major pipeline operating equipment includes:

Pump Station. The mainline input pump station, which is located adjacent to the Tesoro Kenai Refinery, is designed to pump a single product stream and to alternatively pump four different products varying in specific gravity from 0.70 to 0.85. The principal parts of the input pumping station are:

- The inlet manifold from refinery tankage and booster pumps.
- Two product flow meters and a metering manifold with ancillary meter prover facilities.
- The pumping equipment consisting of a 400 hp and a 600 hp electric-motor-driven centrifugal high-pressure pipeline pumps manifolded for separate or series operation.
- Miscellaneous electrical gear, instrumentation, controls, monitors, alarms, shutdowns, a corrosion inhibitor additive pump, valves and piping.

Pipeline. The mainline pipeline originates downstream of the Kenai Pump Station and terminates at the Anchorage Pipeline Receiving Station. The pipeline is a nominal 10-inch diameter and is approximately 68.7 miles in length. It originates on land, traverses a deep-water portion of Cook Inlet, tidal mud flats near Anchorage, and a land portion between the mud flats and Anchorage Pipeline Receiving facilities. The principal parts of the pipeline are:

- The 12-inch scraper trap and associated valving at the Kenai Pump Station.
- The 10-inch mainline pipeline.
- The 12-inch scraper trap and associated valving at the Anchorage Pipeline Receiving facilities.

Tesoro Pipeline Receiving Station at Anchorage. Products transported are delivered directly through terminal manifolds to customer storage facilities as determined and scheduled by our dispatcher and customers. The principal parts of the Anchorage Pipeline Receiving facilities are:

- A gravitometer for interface detection and valve switch decisions.
- The two meter custody transfer and line integrity monitoring facilities.
- A skid mounted 1,000 BPH meter prover with its ancillaries.
- A products delivery manifold.
- Tank 9 Transmix tanks with transfer pump for interface handling. (Under Anchorage Terminal # 1 C-plan as previously discussed.)
- Miscellaneous ancillary controls, instruments, valves and piping as required for proper system operation.

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3.2 RECEIVING ENVIRONMENT

An analysis of potential discharge volumes and locations has been provided in Section 2.3. Facility maps are provided in Appendix B. Oil spilled from the facilities covered by this Plan has the potential of staying on the land or entering lakes, streams, rivers, and Cook Inlet.

The population density of the area covered by this plan is dependent on location. A rural community immediately surrounds the Tesoro Refinery. There are several industrial complexes within one mile of the refinery. A few homes and businesses are also located within one half mile of the refinery.

The population of the corridor surrounding the Tesoro Alaska Pipeline between the refinery and Anchorage is low. The density varies, but typically ranges from only a few houses within one-half mile of the pipeline to only occasional hunters or fisherman who may be within the pipeline corridor.

The segment of the pipeline which passes through Anchorage is generally adjacent to highly populated residential neighborhoods that are typical of medium sized cities; potentially several hundred to several thousand people within one-half mile of the pipeline corridor.

There are not any publicly owned potable water utility systems which would be expected to be impacted by a spill from the refinery or Tesoro Alaska Pipeline. The industrial complexes adjacent to the Refinery draw water from the underlying confined aquifer within one mile of the refinery. These wells are routinely monitored for groundwater contamination by Tesoro and the owners of the wells. Homeowners located along the pipeline corridor on the Kenai Peninsula depend on drilled or dug water wells which could be contaminated by a spill from the pipeline. Tesoro will notify the property owners of oil spills which could impact their property and will monitor potentially impacted private wells as necessary.

3.2.1 OIL SPILLED FROM THE TESORO KENAI REFINERY OR NIKISKI TERMINAL

The Tesoro Kenai Refinery and Nikiski Terminal are located in an area of gently rolling hills on the eastern shore of Alaska's Cook Inlet. Surface elevations range from 150 feet above mean sea level on the northeast portion of the facility to about 85 feet above mean sea level on the southwest. The area is forested and contains numerous small lakes and wetlands. Refinery drainage patterns are provided on a topographic map in Appendix B.

There is no significant drainage pattern on the Tesoro properties. Precipitation that falls within the tank farm impermeable secondary containment areas is pumped or drained to infiltrate to the shallow aquifer if no sheen is present under operator control and applicable regulations. Process unit slabs drain to the oily water sewer system for permitted treatment and discharge. Precipitation to unlined areas ultimately infiltrates into the local surficial sands and gravels.

Considering the very porous nature of the glacial outwash soils, the vegetative cover, the relatively low topographic relief, and the lack of well developed natural drainage systems in the area, little of the precipitation leaves the site as surface runoff.

Should runoff occur at the site, it would be controlled by natural and artificial grading and the poorly developed incipient on-site drainage system. The major of the refinery grades to the west towards two small, closed basin, boggy areas to the southwest and west of the refinery. These water bodies are representative of the immature, poorly developed drainage system characterizing much of the Kenai Lowlands. The boggy areas are perched above less permeable peat, silts, and clays. The boggy areas do not drain by surface water runoff. Discharge from the boggy areas occurs either laterally into permeable soils or downward through less permeable peats and silts. The Kenai Spur Highway was constructed above natural grade west of the boggy areas and also blocks westward drainage.

The remaining portion of possible runoff would be directed to local topographic closed-basins east and southeast.

It is unlikely that oil spilled from the Refinery or Nikiski Terminal would flow far from the immediate vicinity of the spill or into Cook Inlet.

3.2.2 OIL SPILLED FROM THE TESORO ALASKA PIPELINE

18 AAC 75.425(e)(3)(B)(i) (routes of travel and preventive measures for a land-based facility): The pipeline routes of travel are described in detail in Section 3.1.3 and Appendix B. It is crosses several small streams and wetlands as well as being directly adjacent to several small lakes on its route from the refinery to Anchorage. Much of the route on the Kenai Peninsula is adjacent to or in the Captain Cook recreation area or the Kenai National Wildlife Refuge. These areas are considered to be environmentally sensitive. A spill on land from the pipeline, if adjacent to a small stream, could be expected to enter Cook Inlet in a very short time. The pipeline travels through populated areas of Anchorage as well as through parks and under small streams. Safety, damage to personal property, and environmental sensitivity are of concern for any spill for the pipeline in the Anchorage area.

Measures taken to prevent a discharge from entering open water include, Prevention Programs in Place (Section 2.1), specifically pipeline leak detection (Section 2.5.1), pipeline corrosion control (Section 2.1.8), Shutdown Procedures (Section 2.1.6; see also list of pipeline block valves in Section 3.1.3), and Tesoro's pre-staged spill response equipment at Moose Point.

18 AAC 75.425(e)(3)(B)(ii) (RPS percentage to open water estimate for a land-based facility): The response planning standard for TAPL is 4,950 bbl (Section 5.1.2). This standard is based on a catastrophic pipeline section failure, most probably associated with heavy equipment operations adjacent to the pipeline, in which case notifications and pre-emptive berming would occur promptly. Additionally, the minimum travel time between the pipeline source and open water would occur during a pipeline penetration in a creek bed. Excavating within the creek beds require extensive planning, permitting and contingency measures which would minimize released oil. For these reasons the planning estimate for the amount of oil that could reach open water is 200 bbl.

3.2.3 OIL SPILLED FROM THE ANCHORAGE RECEIVING FACILITY

The pipeline receiving facility in Anchorage is located in the Port Area adjacent to the Tesoro Anchorage Terminal. Sufficiently impervious secondary containment around the Anchorage receiving station and Transmix tank would contain all products in the event of a spill. There is a potential that a large spill at the facility could enter Cook Inlet.

3.3 INCIDENT COMMAND SYSTEM

Tesoro Refining & Marketing Company LLC will assume responsibility for the physical control, containment, and clean-up of the discharge of any petroleum products from Tesoro chartered tankers or barges, the Tesoro Kenai Refinery, Tesoro Alaska Pipeline and Tesoro Terminals. The Tesoro response will be managed under an Incident Command System (ICS) similar to and compatible with the National Interagency Incident Management System (NIIMS).

Tesoro's ICS organization chart is provided in Figure 3.3-2 of this manual.

The Tesoro Incident Management Team is identified in Section 1.2 of this plan. It identifies the name and ICS position held by all members of the Tesoro IMT. Command Staff Officers, Primary & Alternate Section Chiefs / Unit Leaders are identified by **bold** type. Tesoro Alaska has incorporated an automated telephonic notification system called *Send Word Now.* All Incident Management Team members can be contacted simultaneously with this system further enhancing our response time. Tesoro Security, under the direction of the Tesoro Alaska EHS Department, will manage our call-out "*Send Word Now*" system.

The Tesoro ICS organization is intended to facilitate effective response to different oil spill scenarios. The Incident Commander has the authority to activate any portion, or all of the response organization. ICS position descriptions can be found in both the AIMS manual and Coast Guard ICS Field Operations Guide.

Once an oil spill is detected it will be reported to the Incident Commander. The most probable report route will be from the Dock Person in Charge, Control Center Operator (CCO) and/or Refinery Area Supervisors. Spill reports could come in from federal or state agencies, citizens groups, or from any discovering party. As soon he has knowledge of the spill, the Incident Commander will direct any member, or the entire Tesoro Initial Assessment Team to travel to the spill site and evaluate the spill. He will then follow the established checklists and utilize the ICS organization chart to manage the response to the oil spill.

The Incident Command structure has been adopted so that Tesoro and its contractors, federal responders and state responders can be activated into a cohesive team. A major oil spill will require the cooperation of federal, state, and local government agencies to adequately manage and respond to the spill.

In a large spill event, a Unified Command Group will be formed to manage the spill. This group will be used to provide overall direction of the spill response and to insure that all interests and problems resulting from the spill are fully addressed.

3.3.1 QUALIFIED INDIVIDUALS

The list below provides the persons designated as Qualified Individuals (Q.I.) for this Tesoro Alaska Contingency Plan with written authority to utilize Tesoro resources as necessary for oil spill response.

Letters of Designation provide authority to:

- Activate & engage in contracting with oil spill removal organization(s).
- Act as liaison with the pre-designated State and Federal On-Scene Coordinator(s).
- Obligate funds required to carry out response activities.

Individuals named as Qualified Individuals also have the authority to act as Incident Commanders and Emergency Response Coordinators.

The Qualified Individuals designated for the Tesoro Refining & Marketing Company LLC, Oil Discharge & Prevention Contingency Plan (Facility Response Plan) are:

TESORO QUALIFIED INDIVIDUALS

TESORO ALASKAREFINERY	NIKISKI TERMINAL & PIPELINE
PRIMARY Q.I.	**PRIMARY Q.I.**
Rolf Manzek (Mgr, Operations)	Shawn Brown (Mgr Pipeline & Terminals)
ALTERNATE Q.I.	**ALTERNATE Q.I.**
Vern Miller (Mgr, Technical Services)	Tom Angleton, (Oils Movement Sup)
Jack Jensen (Alaska Marine Superintendent)	Scott Rosin (Manager, EHS)
Scott Rosin (Manager, EHS)	David Zuker (Mgr, Anch Pipeline) (TAP)
Peter Ribbens (Manager Oil Spill Planning)	Peter Ribbens (Manager Oil Spill Planning)

Q. I. contact numbers are located in Section 1.2 Notifications and Reporting of this plan.

3.3.2 TESORO INCIDENT COMMAND CENTERS

In the event of a major response, an Incident Command Post will be activated. This will be done by the Incident Commander or his designate. The CISPRI Command Post, located at Mile 26.5 of the Kenai Spur Highway (North Road), will be used for spills, if necessary.

The CISPRI Command Post is described in the CISPRI Technical Manual.

A Field Command Post may be established at the scene of the incident as the response effort escalates. It will be located in a Safe Zone near the incident. The Field Command Post will provide a location to coordinate response and control efforts. A Deputy Incident Commander may be delegated to operate the Field Command Post.

Some potential locations for a field command post in Anchorage are:

- Tesoro Terminal # 1
- Tesoro Terminal # 2

Tesoro has also contracted for hotel conference rooms in the past for both spills and spill exercises. If necessary this is an option that is available for a location of a Field Command Post.

3.3.3 UNIFIED COMMAND STRUCTURE

The Unified Command Structure (UCS) will be utilized as a method of integrating federal, state and local agencies with the Spill Management Team (SMT) as shown BELOW in Figure 3.3-1. The purpose of this system is to organize the variety of agencies that may be involved in a response into a consistent team that performs their duties in a concerted, unified effort.

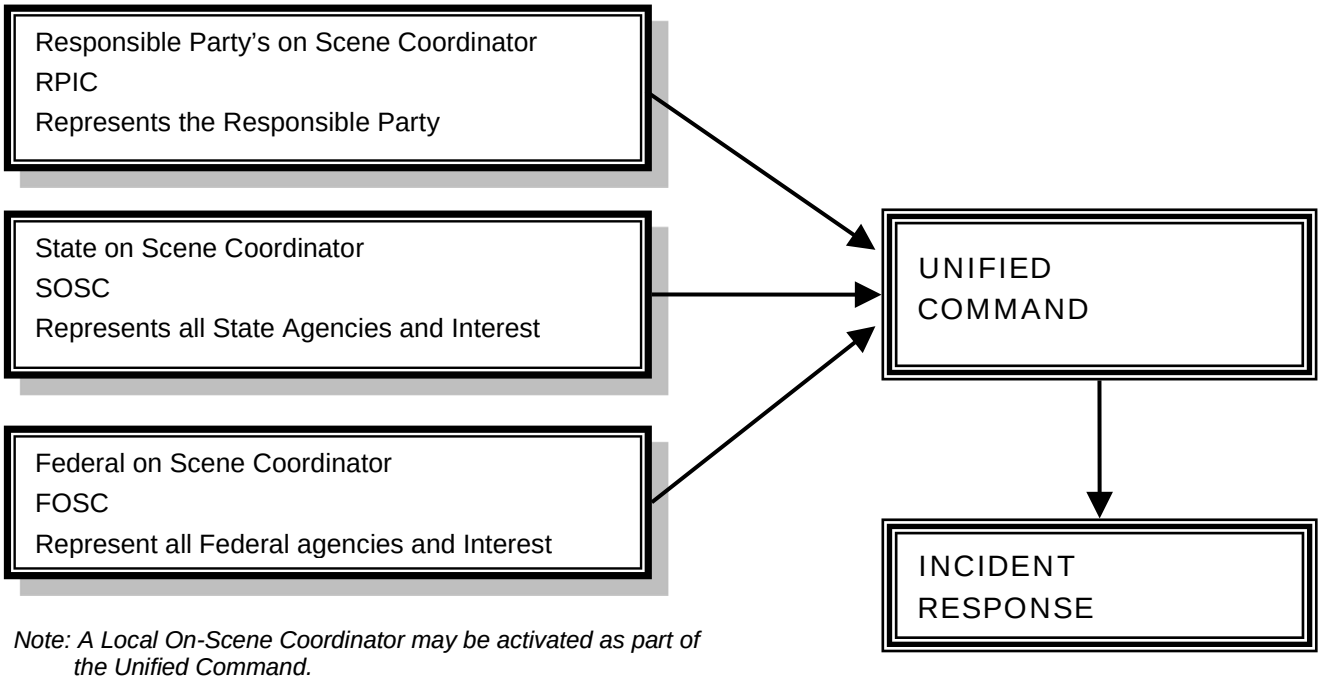
The UCS structure consists of three key On-Scene Coordinators: RPIC, FOSC, SOSC. In some cases a LOSC may also be involved depending on the response organization. These three entities will share decision-making authority as Incident Commanders in the Command Center and will consult with each other regarding spill response issues.

- The FOSC will coordinate all Federal agencies involved in the response.
- The SOSC will coordinate all state and local agencies involved in the response activities.
- The Responsible Party Incident Commander will coordinate all company and OSRO activities.

Depending on the size and complexity of the incident, additional federal and state agency personnel may integrate into other functions of the ICS organization.

Figure 3.3-1

UNIFIED COMMAND ORGANIZATION



Note: A Local On-Scene Coordinator may be activated as part of the Unified Command.

3.3.4 DOCUMENTATION

The Tesoro Incident Management Team (IMT) uses ICS forms consistent with the National Interagency Incident Management System (NIIMS) forms. Tesoro's IMT will bring flash drives and blank forms to the Command Post location.

3.3.5 GOVERNMENT AGENCIES

The primary government agencies concerned with Alaska oil spills are the Alaska Department of Environmental Conservation, the Federal Environmental Protection Agency and U.S. Coast Guard.

ADEC is pre-designated as the State On-Scene Coordinator (SOSC) and has jurisdictional responsibility for all spills that impact state lands and waters. ADEC will monitor, supervise and determine "adequacy" of cleanup of spills which impact state lands or waters. ADEC is the states coordinator of other state agencies and resources.

In the event of a major spill, a Federal On-Scene Coordinator (FOSC) will be designated. The FOSC is usually a Coast Guard representative. The FOSC will facilitate communications with the federal, state and local government agencies that will be involved in response operations. The primary responsibility of the FOSC, as defined in 40 CFR, Part 300 (The National Oil and Hazardous Substance Contingency Plan), is to direct the efforts of government agencies during a spill emergency.

The FOSC may receive advice from the Regional Response Team (RRT). The RRT, which is comprised of representatives of federal/state agencies, has been established to provide the FOSC with technical and professional assistance.

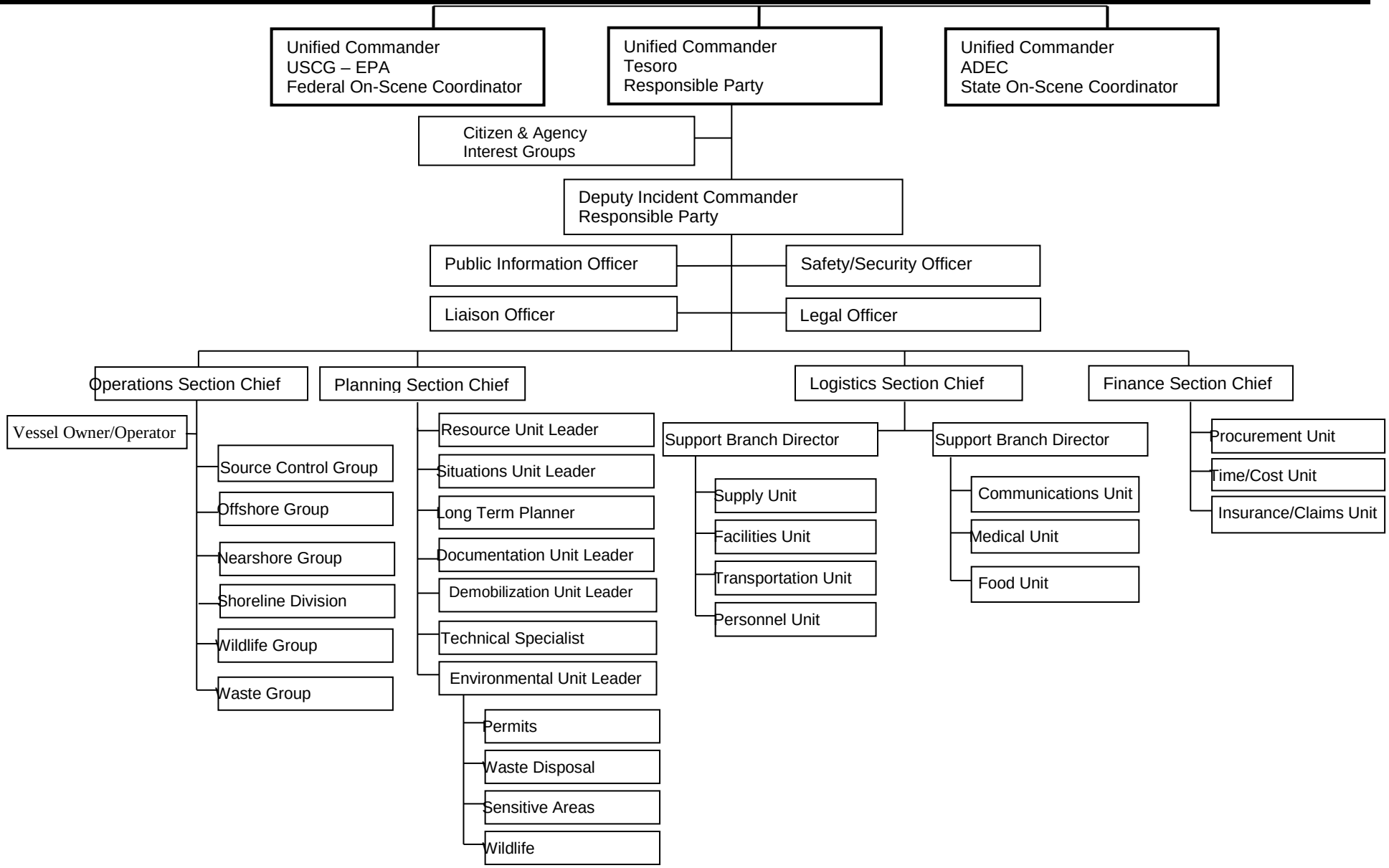
Special pollution control forces and teams have been assembled to enhance the ability of the FOSC and RRT to respond to major oil spills. The Scientific Support Team under the direction of the Scientific Support Coordinator provides information on spill trajectories and critical habitats.

The FOSC is authorized to determine the adequacy of the private cleanup efforts. If not adequate or effective, the FOSC may assume control of the cleanup and activate the Strike Team. 40 CFR, Part 1510.53 states, in part, that the Federal On-Scene Coordinator shall:

> "Determine, in accordance with section 311(c)(1) of the act, (Federal Water Pollution Control Act, 1972 Amendment) whether removal actions are being carried out properly. Removal is considered as being done properly when the following criteria are met:
>
> (i) Private cleanup efforts are effective in terms of the statutory definition or removal, that is, they are fully sufficient to minimize or mitigate damage to the public health or welfare. Private removal efforts shall be deemed "improper" to the extent that Federal efforts are necessary to prevent continued or further damage....
>
> (ii) The discharger shall be advised of the proper action to be taken.
>
> (iii) If the discharger does not follow this advice, warning of the discharger's liability for the cost of removal, pursuant to section 311(f), shall be given...."

FIGURE 3.3-2

TESORO INCIDENT COMMAND SYSTEM (ICS) ORGANIZATION CHART



3.3.6 SPILL MANAGEMENT TEAM DUTIES AND RESPONSIBILITIES

SPILL RESPONSE MANAGER

Incident Commander: Responsible for managing the crisis including the development and implementation of strategic decisions. The Incident Commander delegates or assigns a Deputy to delegate duties and responsibilities.

Deputy Incident Commander: He assists the incident commander by carrying out assignments and duties as given by the IC. In the event the IC could no longer perform his duties the DIC would assume those duties. The DIC is also acts as the corporate liaison.

COMMAND STAFF

Legal Officer: Provides advice on all aspects of an oil spill incident. Ensures that information which may be relevant to the defense and/or settlement of future claims is gathered and preserved.

Liaison Officer: Responsible for communicating with local, state, and federal government agencies not involved in the unified command structure. Also advises interested groups, corporations, and organizations of the actions that the Spill Management Team (SMT) is taking and address concerns.

Public Information Officer: Responsible for the formulation and release of information about the crisis to the news media.

Safety Officer: Responsible for monitoring and assessing hazardous and unsafe situations and developing measures for ensuring personnel safety.

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

Staff Assistants: The SA support the IC team by performing administrative assistant duties such as coping, maintaining logs, taking notes, etc.

OPERATIONS SECTION

Operations Section Chief: Responsible for the management of all operations directly applicable to containment, recovery, clean up, and rehabilitation. Activates and supervises organization elements in accordance with the Incident Action Plan and directs its execution.

Operations Specialist: Assists and provides information for field operations as chief.

Field Supervisors: Responsible for the implementation of the assigned portion of the Incident Action Plan, assignment of resources within the progress of control operations and the status of resources.

FINANCE SECTION

Finance Section Chief: Responsible for all financial and cost analysis aspects of the spill.

Time/Cost Unit: Provides time/cost reporting of labor, materials and supplies used during spill containment and repair.

Insurance and Claims Unit: Initiates investigation and documentation on all claims other than personal injury and arranges for damage surveyors and adjusters.

PLANNING SECTION

Planning Section Chief: Responsible for the collection, evaluation, dissemination, and use of information about the development of the spill and status of resources. The information as needed to understand the current situation, predict the probable course of incident events and prepare alternate strategies and control operations for the incident.

Resources Unit: Responsible for the establishing all check-in actives; preparation and maintenance of displays, charts, and lists that reflect current status; the preparation and processing of resources status change information and the location of incident resources.

Situation Unit: Collects and organizes spill status and situation information. Responsible for the evaluation, analysis, and display of that information.

Documentation Unit: Maintains accurate and complete historical files, and provides duplicating services and stores incident files for legal, analytical, and historic purposes.

Environmental Unit: Determines extent of environmental damage and evaluates the effects of cleanup methods on the environment; obtains necessary permits, coordinates with government agencies to arrange for disposal of recovered oil and waste, and implements wildlife protection and treatment plans.

Technical Specialist: Technical specialist are advisors with special skills needed to support incident options. They may report to the Planning Section Chief; may function within an existing unit such as the situation unit; form a separate unit if required; or be reassigned to other parts of the organization.

LOGISTICS SECTION

Logistics Section Chief: Responsible for providing facilities, services and material in support of the incident.

Supply Unit: Orders personnel, equipment, and supplies; receives and stores supplies; maintains inventories and distributes supplies as requested.

Facilities Unit: Provides for office work areas, living quarters and storage buildings; provides sanitation facilities, manages remote camps and general maintenance to facilities.

Ground Support Unit: Provides for transportation of personnel, supplies, food and equipment; performs fueling, service and repair work to vehicles and other ground support equipment; implements traffic plan for the incident.

Medical Unit: Develops a Medical Emergency Plan & renders medical aid for injured and ill personnel assigned to the spill.

Food Unit: Determines feeding requirements at all spill locations & facilities; provides drinking water & contractor oversight.

Communications Unit: Develops plans for the effective use of spill communications equipment and facilities; installs and tests equipment and operates an Incident Communications Center.

Radio Dispatch: They maintain communication links between command post and field supervisors. Provide for recording of all communications and routing of hard copy to required parties.

Air Operations Branch: Primarily responsible for preparing the air operations portions of the Incident Action Plan. The plan reflects Company or Agency restrictions that have an impact on the operations capability of utilization of resources.

Procurement Unit: Administers and establishes, as necessary, vendor contracts for operations support-related supplies, services, and technical consultants.

3.4 REALISTIC MAXIMUM RESPONSE OPERATING LIMITATIONS

18 AAC 75.425(e)(3)(D) (Realistic maximum response operating limitations): This section requires a description of the realistic maximum response operating limitations that might be encountered at the facility or operation and, based on environmental and safety considerations, an analysis of the frequency and duration of limitations that would render mechanical response methods ineffective, and a description of any additional specific temporary prevention or response measures that would be taken under these conditions. These environmental considerations must include:

18 AAC 75.425(e)(3)(D)(i) (weather, including wind, visibility, precipitation and temperature): Figures 1 – 8, and associated text of CISPRI Technical Manual Appendix B describe subject local environmental conditions in detail. On-land responses at the Kenai Refinery, Nikiski Terminal, and on-land portions of the Tesoro Alaska Pipeline do not have significant maximum response operating limitations incurred by weather. These facilities operate 24-hours/day, 365 days per year with operations and maintenance staff prepared to support this schedule, including emergencies. Primary maximum response operating limitations would be caused by extreme wind chill, which is expected to occur less than 1% of operating time. Maximum response operating limitations for on-water responses are described in the pertinent sections of CISPRI Technical Manual Appendix B – Weather.

18 AAC 75.425(e)(3)(D)(ii) (sea states, tides and currents): Tables 1 & 2 and Figures Figure 9 – 13, and associated text, CISPRI Technical Manual Appendix B – Sea State, Tide, and Currents, provide maximum operating limitations based on sea states, tides and currents. This condition is not applicable for on-land responses.

18 AAC 75.425(e)(3)(D)(iii) (ice and debris presence): CISPRI Technical Manual Appendix B – Sea Ice Conditions, describes maximum operating limitations based on sea ice conditions. Marine debris is not anticipated to be a predictable significant diminution of maximum response operating limitations. This condition is not applicable for on-land responses.

18 AAC 75.425(e)(3)(D)(iv)- (Hours of daylight): Natural Light conditions for the response areas are well documented. All response equipment, both on-land and on-water, is equipped with provisions for lighting, including equipment lights and portable light plants. Response activities will continue as feasible regardless of lighting, however surveillance directing response, aerial operations and near-shore operations may be restricted during low light periods. Light limitations for on-water responses are detailed in CISPRI Technical Manual Appendix B. This condition is not applicable for on-land responses.

18 AAC 75.425(e)(3)(D)(v) (other known environmental considerations): Volcanic activity, most notably ash fall, is the principal other known environmental consideration for maximum response operational limits. CISPRI Technical Manual Appendix B – Volcanic Conditions, describes historic frequencies, limitations, and response provisions. This consideration is applicable for land and on-water responses due to safety for responders and combustion engine aspiration.

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3.5 LOGISTICAL SUPPORT

CISPRI will be the primary Tesoro response contractor for any spill which occurs in the Cook Inlet area. CISPRI has contracts in place with aviation companies, vessel owners, response action contractors, and many other suppliers to assure that its' member companies have rapid access to the people, equipment, and ancillary services which will be required for oil spill response within the Cook Inlet area.

Details of CISPRI logistical support are available in the following sections of the CISPRI Technical Manual (CI-LP):

CISPRI Technical Manual (CI-LP-3):	**Response Contractor Information**
CISPRI Technical Manual (CI-LP-4):	**CISPRI Response Equipment Inventory**
CISPRI Technical Manual (CI-LP-5):	**Contract Vessel Program**

Tesoro maintains contracts with other Oil Spill Response Organizations (OSRO) as outlined in the CISPRI Technical Manual (CI-LP-3).

CISPRI maintains contracts with contract vessels and a contract vessel administrator to assure vessel availability for oil spill response. The vessels under contract will vary seasonally since vessel availability will depend on weather, fishing seasons, and other opportunities for vessel owners to secure income. It is the intention of CISPRI to maintain an adequate number of fishing vessels under contract to allow CISPRI to respond to a 50,000 barrel oil spill even though a substantial number of those vessels under contract may decline to respond due to previous commitments.

The CISPRI Contract Vessel list is not included in this Plan since it is anticipated that it will require frequent modification. The active fishing vessel list is maintained by CISPRI’s Contract Vessel Administrator, contracts are maintained at CISPRI in Nikiski.

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3.6 RESPONSE EQUIPMENT

Oil spill response equipment inventory lists are maintained by CISPRI for use by member companies. Equipment available in the CISPRI inventory is provided in the CISPRI Technical Manual (CI-LP-4 and Appendix A).

CISPRI maintains contracts with a variety of contract vessel operators and numerous suppliers to assure that necessary equipment and services are available to member companies for oil spill response. Details of these contracts are provided in the CISPRI Technical Manual Tactic (CI-LP-5).

- Information on CISPRI planning assumptions can be found in CISPRI Technical Manual Tactics (CI-LP-1 A&B).

- CISPRI Equipment limitations can be found in CISPRI Technical Manual Tactic (CI-LP-4).

CISPRI maintains a close working relationship with other industrial supported spill response organizations with equipment in Alaska. A portion of the equipment owned by these organizations may be made available to CISPRI in the event there is a major oil spill.

These organizations include:

- **Alaska Clean Seas (ACS)**
- **ALYESKA (SERVS)**
- **ALASKA CHADUX**

ADEC must give its approval before any major response equipment is moved from one region of the state to another. This approval is required to ensure that the response needs of both regions can be met.

Tesoro maintains close relationships with key Alaskan contractors that work with CISPRI and are likely to supply equipment and personnel for a Tesoro spill response. These relationships will allow Tesoro and these contractors to effectively work together during spill response activities. Information on these contractors is provided in CISPRI Technical Manual Tactic CI-LP-3.

3.6.1 KENAI REFINERY SPILL CONTROL EQUIPMENT

Tesoro maintains response equipment at the Kenai facilities. Additional response equipment is located at the Kenai Pipe Line Company. This equipment is for incipient level response only.

Equipment includes:

- **Industrial absorbents**
- **Absorbent pads, sweeps, Sorbent boom**
- **Sand bags**
- **Barrels, buckets, etc.**
- **(1) 1,000 gallon vacuum truck**

3.6.2 OTHER EMERGENCY EQUIPMENT

Other emergency equipment includes medical supplies, personal protective clothing, air monitoring equipment, and other related tools and equipment that are useful in an emergency situation. This equipment is distributed throughout the facility to provide optimal access is an emergency occurs. First aid kits, SCBAs, fire extinguishers, and fire blankets are located in each Operational Zone and control house. These items are inspected regularly and replaced when necessary. Emergency safety showers are maintained in each operational zone, at all locations where potential accidents requiring their use could occur. Inspection records are kept in the Safety Department files.

3.7 NON-MECHANICAL RESPONSE INFORMATION

Petroleum products are complex mixtures of hydrocarbons that exhibit a range of physical and chemical properties. Tesoro will consult with the Federal and State On-Scene Coordinators (Unified Command) to determine if mechanical or non-mechanical response options will be used for any particular spill. Federal and State approvals are required before any non-mechanical response can be initiated.

It is Tesoro's intent to pursue any non-mechanical option than can be mutually agreed upon by Federal and State agencies to respond to an oil spill. Primary response choices will be:

- Dispersant Application — CISPRI Technical Manual (CI-NM-1)
- In Situ Burning — CISPRI Technical Manual (CI-NM-3)

Non-mechanical response effectiveness, detailed response plans, assessment of environmental consequences, environmental monitoring, and permit requirements for these options are provided in the referenced CISPRI Technical Manual sections.

Information on procedures for applying for approval of In-Situ Burning and the use of Dispersants and copies of the applications can be found in the Unified Plan and the Cook Inlet Sub-Area Plan.

Permits are required for dispersant use and in-situ burning [see Tactic CI-LP-7 and Annex F of the Unified Plan (http://www.akrrt.org/UnifiedPlan/F-Annex.pdf)].

Dispersant and in-situ burning application forms with instructions for their use can be found in the Permits program available on the ADEC website at:

http://www.dec.state.ak.us/spar/perp/permits/index.htm

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3.9 SPILL RESPONSE TRAINING

CISPRI has provided the bulk of the oil spill response training for Tesoro personnel. It is anticipated that CISPRI and its' contractors will continue to provide most of Tesoro's spill response training. Class outlines and detailed attendance records are maintained by CISPRI. In addition, Tesoro utilizes spill prevention and response training through in-house classes and regularly scheduled safety meetings, as well as specialty training through third party contractors. Details of classes attended by all Tesoro personnel are maintained by the Tesoro training department. These records are available for inspection at the Tesoro refinery.

3.9.1 TESORO INCIDENT COMMAND TRAINING

All of the members of the Tesoro ICS team designated as commanders, officers, section chiefs or supervisors who initially respond to the spill will have received a minimum of 10 hours of ICS instruction through formal classroom settings, table top oil spill drills, or deployment response drills. Most members of the Tesoro ICS team below the level of chiefs or supervisors will have received a minimum of 8 hours of similar ICS instruction. A few of the members below the level of chiefs or supervisors will not receive formal ICS training, but will become part of the ICS team because of their personal experience or routine job activities within Tesoro. The response-training matrix shown below represents the training conducted by Tesoro. Times provided vary by class and experience.

Table 3.9-1

RESPONSE TRAINING MATRIX

	BASIC ICS	ICS FORMS TRAINING	ICS PLANNING PROCESS	COMMAND STAFF	OPERATIONS SECTION MODULE	PLANNING SECTION MODULE	ENVIRONMENTAL UNIT MODULE	LOGS/FIN SECTION MODULE
Command Staff	O	O	X	O				
Planning Section	O	O	X			O		
Operations Section	O	O	X		O			
Logistics Section	O	O	X					O
Finance Section	O	O	X					O
Environmental Unit	O	O	X				O	

Note: X = Required Annually
O = (Optional as required)

3.9.2 TESORO IMMEDIATE RESPONSE TEAM (IRT)

Tesoro has established an immediate Response Team (IRT) that has been specifically trained by CISPRI to work with CISPRI personnel and Tesoro or CISPRI member company oil spill responses. Members of this team may respond to contain, control, or clean up the spill or to supervise other Tesoro, oil industry, or contract personnel in all phases of oil spill response activities. The IRT's routinely conduct training along with their CISPRI counterparts. At a minimum, the team members have either received the following CISPRI training, or have the equivalent of such training through work experience:

24-Hour Hazwoper Class
8-Hour Annual Hazwoper Update
Various training opportunities with CISPRI equipment

3.9.3 GENERAL LABOR SPILL RESPONSE TRAINING

In the event of an oil spill, any other personnel from Tesoro, CISPRI, or CISPRI contractors who respond to contain, control, or cleanup the oil are to be trained to the standards established in CFR 29, Part 1910. These employees will have at a minimum of one of the following levels of training:

1. General site workers, engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances, will have a minimum of 40 hours of off-site instruction plus 3 days of qualified supervised field experience. They will also have a current 8 hour annual refresher course, if needed.
2. On-site managers and supervisors will have 40 hours of initial training and 3 days of field experience, plus 8 hours of specialized training. They will also have a current 8 hour annual refresher course, if needed.
3. General site workers engaged in oil spill clean-up, who work in areas which have been monitored and fully characterized indicating that exposures are under permissible exposure limits, where respirators are not necessary, and where there are no health hazards or the possibility of an emergency developing, shall received a minimum of 24 hours of off-site instruction.
4. Emergency responders who initially respond as part of the emergency, for the purposes of containing, controlling or stopping the spill shall receive a minimum of 24 hours of training and additional specialized training in containment and control techniques and the use of the equipment necessary to perform those tasks.

3.9.4 PREPAREDNESS FOR RESPONSE EXERCISE PROGRAM

Tesoro participates in the National Preparedness for Response Exercise Program (PREP) to satisfy agency exercise requirements. All PREP exercise components (as applicable) must be exercised during a Triennial cycle. The types of exercises used in the Preparedness for Exercise Program are listed below. The Preparedness for Response Exercise Program documentation form used by Tesoro is provided in this section (Figure 3.9-1 a-d).

Figure 3.9-1

TESORO EXERCISE DOCUMENTATION FORM

PREPAREDNESS FOR READINESS EXERCISE PROGRAM
TESORO EXERCISE DOCUMENTATION FORM

TESORO

Vessel / Facility Name: _____ **Exercise Year:** _____

First Quarter — *QUALIFIED INDIVIDUAL NOTIFICATION EXERCISE*

☐ Announced ☐ Unannounced **Date:** _____
A. Name of Qualified Individual: _____ **Title:** _____
B. Is Qualified Individual identified in Contingency Plan? ☐ Yes ☐ No
C. Notification method: ☐ Telephone ☐ Pager ☐ In Person ☐ Radio ☐ Other
D. Did notification procedure follow C-Plan? ☐ Yes ☐ No
E. Comments: _____

F. Self-Certification: Name: _____ Title: _____

Second Quarter — *QUALIFIED INDIVIDUAL NOTIFICATION EXERCISE*

☐ Announced ☐ Unannounced **Date:** _____
A. Name of Qualified Individual: _____ **Title:** _____
B. Is Qualified Individual identified in Contingency Plan? ☐ Yes ☐ No
C. Notification method: ☐ Telephone ☐ Pager ☐ In Person ☐ Radio ☐ Other
D. Did notification procedure follow C-Plan? ☐ Yes ☐ No
E. Comments: _____

F. Self-Certification: Name: _____ Title: _____

Third Quarter — *QUALIFIED INDIVIDUAL NOTIFICATION EXERCISE*

☐ Announced ☐ Unannounced **Date:** _____
A. Name of Qualified Individual: _____ **Title:** _____
B. Is Qualified Individual identified in Contingency Plan? ☐ Yes ☐ No
C. Notification method: ☐ Telephone ☐ Pager ☐ In Person ☐ Radio ☐ Other
D. Did notification procedure follow C-Plan? ☐ Yes ☐ No
E. Comments: _____

F. Self-Certification: Name: _____ Title: _____

Fourth Quarter — *QUALIFIED INDIVIDUAL NOTIFICATION EXERCISE*

☐ Announced ☐ Unannounced **Date:** _____
A. Name of Qualified Individual: _____ **Title:** _____
B. Is Qualified Individual identified in Contingency Plan? ☐ Yes ☐ No
C. Notification method: ☐ Telephone ☐ Pager ☐ In Person ☐ Radio ☐ Other
D. Did notification procedure follow C-Plan? ☐ Yes ☐ No
E. Comments: _____

F. Self-Certification: Name: _____ Title: _____

Figure 3.9-2

TESORO EMERGENCY PROCEDURES EXERCISE FORM

First ***EMERGENCY PROCEDURES EXERCISE***

Date:_____ ☐ **Announced** ☐ **Unannounced**

A. Emergency Procedures Tested: _____

B. Drill Location on site: _____

C. List Personnel Participating: _____

D. Describe objectives and how they were exercised: _____

E. Descriptions of lessons learned: _____

F. Self Certification: **Name:** _____ **Title:** _____

*** Note: Emergency Procedure Exercises are optional for facilities**

Second ***EMERGENCY PROCEDURES EXERCISE***

Date:_____ ☐ **Announced** ☐ **Unannounced**

A. Emergency Procedures Tested: _____

B. Drill Location on site: _____

C. List Personnel Participating: _____

D. Describe objectives and how they were exercised: _____

E. Descriptions of lessons learned: _____

F. Self Certification: **Name:** _____ **Title:** _____

*** Note: Emergency Procedure Exercises are optional for facilities**

Figure 3.9-3

TESORO EQUIPMENT DEPLOYMENT EXERCISE FORM

First ***EQUIPMENT DEPLOYMENT EXERCISE***

Date:_____ ☐ **Announced** ☐ **Unannounced**

A. Equipment Ownership: **Facility** ☐ **OSRO** ☐ **Both** ☐

B. Provide attachment listing Equipment and Personnel

C. Was equipment deployed in its inteded operating environment? **Yes** ☐ **No** ☐

D. Describe objectives and how they were exercised: _____

E. Descriptions of lessons learned: _____

F. Is Spill Response Equipment in a Preventative Maintenance Program? **Yes** ☐ **No** ☐

G. Self Certification: **Name:** _____ **Title:** _____

Second ***EQUIPMENT DEPLOYMENT EXERCISE***

Date:_____ ☐ **Announced** ☐ **Unannounced**

A. Equipment Ownership: **Facility** ☐ **OSRO** ☐ **Both** ☐

B. Provide attachment listing Equipment and Personnel

C. Was equipment deployed in its inteded operating environment? **Yes** ☐ **No** ☐

D. Describe objectives and how they were exercised: _____

E. Descriptions of lessons learned: _____

F. Is Spill Response Equipment in a Preventative Maintenance Program? **Yes** ☐ **No** ☐

G. Self Certification: **Name:** _____ **Title:** _____

Figure 3.9-4

TESORO SPILL MANAGEMENT TEAM TABLETOP EXERCISE FORM

SPILL MANAGEMENT TEAM TABLETOP EXERCISE

RESPONSE CATEGORY

☐ Announced ☐ Unannounced

☐ Average Most Probable Discharge ☐ Maximum Most Probable Discharge ☐ Worst Case Discharge

☐ Simulated _____ bbls ☐ Real _____ bbls

PREP CORE REQUIREMENTS COMPLETED THIS CALENDAR YEAR

☐ Notifications	☐ Assessment	☐ Protection of Sensitive Areas
☐ Staff Mobilization	☐ Containment	☐ Personnel Support
☐ Response Management System	☐ Recovery	☐ Equipment Maintenance
☐ Unified Command	☐ Disposal	☐ Procurement
☐ SMT Operations	☐ Communications	☐ Documentation
☐ Discharge Control	☐ Transportation	☐

EXERCISE OBJECTIVES

LESSONS LEARNED

APPROVED BY:

RESPONSIBLE PARTY	DATE
FEDERAL ON-SCENE COORDINATOR	DATE
STATE ON-SCENE COORDINATOR	DATE
LOCAL ON-SCENE COORDINATOR	DATE

LIST OF ATTACHMENTS:

☐ Incident or Scenario & Objective of Exercise/Incident	☐ Incident Action Plan (IAP)
☐ ICS 201 Initial Incident Briefing	☐ Critique/Lessons Learned
☐ List of Equipment Operational Problems	☐ ICS 211P (OS) Check-in List
☐ _____	☐ _____

Attachments on file with Supervisor Contingency Planning and Emergency Response, Tesoro Alaska Refinery

Table 3.9-2

SUGGESTED TRAINING ELEMENTS

(Based on the Training Reference for Oil Spill Response 1994 – USCG, DOT-OPS, EPA)

Training Element	Qualified Individual (QI)	Spill Management Team (SMT)	Facility Responders
Captain of the Port (COTP) Zones or Environmental Protection Agency (EPA) regions in which the facility is located.	X	X	X
Notification procedures and requirements for facility owners or operators; internal response organizations; federal and state agencies; and contracted oil spill removal organizations (OSRO's) and the information required for those organizations.	X	X	X
Communication system used for the notifications.	X	X	X
Information on the products, stored, used, or transferred, by the facility, including familiarity with the material safety data sheets, special handling procedures, health and safety hazards, spill and fire fighting procedures.	X	X	X
Procedures the facility personnel may use to mitigate or prevent any discharge or a substantial threat of a discharge of oil resulting from facility operational activities associated with internal or external cargo transfers, storage, or use.	X	X	X
Facility personnel responsibilities and procedures for use of facility equipment which may be available to mitigate or prevent an oil discharge.	X	X	X
Operational capabilities of the contracted OSRO's to respond to the following: • Average most probable discharge (small discharge); • Maximum most probable discharge (medium discharge); and • Worst case discharge.	X	X	X
Responsibilities and authority of the Qualified Individual as described in the facility response plan and company response organization.	X	X	X
The organizational structure that will be used to manage the response actions including: • Command and control; • Public information; • Safety; • Liaison with government agencies; • Spill response operations; • Planning; • Logistics support; and • Finance.	X	X	X
Responsibilities and authority of the Qualified Individual as described in the facility response plan and company response organization.	X	X	X
The responsibilities and duties of each oil spill management team within the organizational	X	X	

Training Element	Qualified Individual (QI)	Spill Management Team (SMT)	Facility Responders
structure.			
The drill and exercise program to meet federal and state regulations as required under OPA.	X	X	X
The role of the Qualified Individual in the post discharge review of the plan to evaluate and validate its effectiveness.	X		
The Area Contingency Plan (ACP) for the area in which the facility is located.	X	X	X
The National Contingency Plan (NCP).	X	X	X
Roles and responsibilities of federal and state agencies in pollution response.	X	X	X
Available response resources identified in response plan.	X	X	
Contracting and ordering procedures to acquire oil spill removal organization resources identified in the response plan.	X	xo	X
OSHA requirements for worker health and safety (29 CFR 1910.120).	X	X	X
Incident Command System/Unified Command System.	X	X	
Public Affairs.	X	X	
Crisis management.	X	X	
Procedures for obtaining approval for dispersant use or in-situ burning of the spill.	X		
Oil spill trajectory analyses.	X		
Sensitive biological areas.	X	X	
This training procedure as described in the response plan for members of the spill management team		X	
Procedures for the post discharge review of the plan to evaluate and validate its effectiveness.		X	
Basic information on spill operations and oil spill clean-up technology including: • Oil containment; • Oil recovery methods and devices; • Equipment limitations and uses; • Shoreline clean-up and protection; • Spill trajectory analysis; • Use of dispersants, in-situ burning, bioremediation; and • Waste storage and disposal considerations.		X	
Hazard recognition and evaluation.		X	
Site safety and security procedures,		X	
Personnel management, as applicable to designated job responsibilities.		X	

Training Element	Qualified Individual (QI)	Spill Management Team (SMT)	Facility Responders
Procedures for directing the deployment and use of spill response equipment, as applicable to designated job responsibilities.			
Specific procedures to shut down affected operations.			x
Procedures to follow in the event of discharge, potential discharge, or emergency involving the following equipment or scenarios: • Tank overfill; • Tank rupture; • Piping or pipeline rupture; • Piping or pipeline leak, both under pressure or not under pressure, if applicable; • Explosion or fire; • Equipment Failure; and • Failure of secondary containment system.			x
Name of the Qualified Individual and how to contact him or her.			x

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3.9 SPILL RESPONSE TRAINING

CISPRI has provided the bulk of the oil spill response training for Tesoro personnel. It is anticipated that CISPRI and its' contractors will continue to provide most of Tesoro's spill response training. Class outlines and detailed attendance records are maintained by CISPRI. In addition, Tesoro utilizes spill prevention and response training through in-house classes and regularly scheduled safety meetings, as well as specialty training through third party contractors. Details of classes attended by all Tesoro personnel are maintained by the Tesoro training department. These records are available for inspection at the Tesoro refinery.

3.9.1 TESORO INCIDENT COMMAND TRAINING

All of the members of the Tesoro ICS team designated as commanders, officers, section chiefs or supervisors who initially respond to the spill will have received a minimum of 10 hours of ICS instruction through formal classroom settings, table top oil spill drills, or deployment response drills. Most members of the Tesoro ICS team below the level of chiefs or supervisors will have received a minimum of 8 hours of similar ICS instruction. A few of the members below the level of chiefs or supervisors will not receive formal ICS training, but will become part of the ICS team because of their personal experience or routine job activities within Tesoro. The response-training matrix shown below represents the training conducted by Tesoro. Times provided vary by class and experience.

Table 3.9-1

RESPONSE TRAINING MATRIX

	BASIC ICS	ICS FORMS TRAINING	ICS PLANNING PROCESS	COMMAND STAFF	OPERATIONS SECTION MODULE	PLANNING SECTION MODULE	ENVIRONMENTAL UNIT MODULE	LOGS/FIN SECTION MODULE
Command Staff	O	O	X	O				
Planning Section	O	O	X			O		
Operations Section	O	O	X		O			
Logistics Section	O	O	X					O
Finance Section	O	O	X					O
Environmental Unit	O	O	X				O	

Note: X = Required Annually
O = (Optional as required)

3.9.2 TESORO IMMEDIATE RESPONSE TEAM (IRT)

Tesoro has established an immediate Response Team (IRT) that has been specifically trained by CISPRI to work with CISPRI personnel and Tesoro or CISPRI member company oil spill responses. Members of this team may respond to contain, control, or clean up the spill or to supervise other Tesoro, oil industry, or contract personnel in all phases of oil spill response activities. The IRT's routinely conduct training along with their CISPRI counterparts. At a minimum, the team members have either received the following CISPRI training, or have the equivalent of such training through work experience:

24-Hour Hazwoper Class
8-Hour Annual Hazwoper Update
Various training opportunities with CISPRI equipment

3.9.3 GENERAL LABOR SPILL RESPONSE TRAINING

In the event of an oil spill, any other personnel from Tesoro, CISPRI, or CISPRI contractors who respond to contain, control, or cleanup the oil are to be trained to the standards established in CFR 29, Part 1910. These employees will have at a minimum of one of the following levels of training:

1. General site workers, engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances, will have a minimum of 40 hours of off-site instruction plus 3 days of qualified supervised field experience. They will also have a current 8 hour annual refresher course, if needed.
2. On-site managers and supervisors will have 40 hours of initial training and 3 days of field experience, plus 8 hours of specialized training. They will also have a current 8 hour annual refresher course, if needed.
3. General site workers engaged in oil spill clean-up, who work in areas which have been monitored and fully characterized indicating that exposures are under permissible exposure limits, where respirators are not necessary, and where there are no health hazards or the possibility of an emergency developing, shall received a minimum of 24 hours of off-site instruction.
4. Emergency responders who initially respond as part of the emergency, for the purposes of containing, controlling or stopping the spill shall receive a minimum of 24 hours of training and additional specialized training in containment and control techniques and the use of the equipment necessary to perform those tasks.

3.9.4 PREPAREDNESS FOR RESPONSE EXERCISE PROGRAM

Tesoro participates in the National Preparedness for Response Exercise Program (PREP) to satisfy agency exercise requirements. All PREP exercise components (as applicable) must be exercised during a Triennial cycle. The types of exercises used in the Preparedness for Exercise Program are listed below. The Preparedness for Response Exercise Program documentation form used by Tesoro is provided in this section (Figure 3.9-1 a-d).

Figure 3.9-1

TESORO EXERCISE DOCUMENTATION FORM

PREPAREDNESS FOR READINESS EXERCISE PROGRAM
TESORO EXERCISE DOCUMENTATION FORM

TESORO

Vessel / Facility Name: _____ **Exercise Year:** _____

First Quarter — *QUALIFIED INDIVIDUAL NOTIFICATION EXERCISE*

☐ Announced ☐ Unannounced **Date:** _____
A. Name of Qualified Individual: _____ **Title:** _____
B. Is Qualified Individual identified in Contingency Plan? ☐ Yes ☐ No
C. Notification method: ☐ Telephone ☐ Pager ☐ In Person ☐ Radio ☐ Other
D. Did notification procedure follow C-Plan? ☐ Yes ☐ No
E. Comments: _____

F. Self-Certification: Name: _____ Title: _____

Second Quarter — *QUALIFIED INDIVIDUAL NOTIFICATION EXERCISE*

☐ Announced ☐ Unannounced **Date:** _____
A. Name of Qualified Individual: _____ **Title:** _____
B. Is Qualified Individual identified in Contingency Plan? ☐ Yes ☐ No
C. Notification method: ☐ Telephone ☐ Pager ☐ In Person ☐ Radio ☐ Other
D. Did notification procedure follow C-Plan? ☐ Yes ☐ No
E. Comments: _____

F. Self-Certification: Name: _____ Title: _____

Third Quarter — *QUALIFIED INDIVIDUAL NOTIFICATION EXERCISE*

☐ Announced ☐ Unannounced **Date:** _____
A. Name of Qualified Individual: _____ **Title:** _____
B. Is Qualified Individual identified in Contingency Plan? ☐ Yes ☐ No
C. Notification method: ☐ Telephone ☐ Pager ☐ In Person ☐ Radio ☐ Other
D. Did notification procedure follow C-Plan? ☐ Yes ☐ No
E. Comments: _____

F. Self-Certification: Name: _____ Title: _____

Fourth Quarter — *QUALIFIED INDIVIDUAL NOTIFICATION EXERCISE*

☐ Announced ☐ Unannounced **Date:** _____
A. Name of Qualified Individual: _____ **Title:** _____
B. Is Qualified Individual identified in Contingency Plan? ☐ Yes ☐ No
C. Notification method: ☐ Telephone ☐ Pager ☐ In Person ☐ Radio ☐ Other
D. Did notification procedure follow C-Plan? ☐ Yes ☐ No
E. Comments: _____

F. Self-Certification: Name: _____ Title: _____

Figure 3.9-2

TESORO EMERGENCY PROCEDURES EXERCISE FORM

First ***EMERGENCY PROCEDURES EXERCISE***

Date:_____ ☐ **Announced** ☐ **Unannounced**

A. Emergency Procedures Tested: _____

B. Drill Location on site: _____

C. List Personnel Participating: _____

D. Describe objectives and how they were exercised: _____

E. Descriptions of lessons learned: _____

F. Self Certification: **Name:** _____ **Title:** _____

*** Note: Emergency Procedure Exercises are optional for facilities**

Second ***EMERGENCY PROCEDURES EXERCISE***

Date:_____ ☐ **Announced** ☐ **Unannounced**

A. Emergency Procedures Tested: _____

B. Drill Location on site: _____

C. List Personnel Participating: _____

D. Describe objectives and how they were exercised: _____

E. Descriptions of lessons learned: _____

F. Self Certification: **Name:** _____ **Title:** _____

*** Note: Emergency Procedure Exercises are optional for facilities**

Figure 3.9-3

TESORO EQUIPMENT DEPLOYMENT EXERCISE FORM

First ***EQUIPMENT DEPLOYMENT EXERCISE***

Date:_____ ☐ Announced ☐ Unannounced

A. Equipment Ownership: Facility ☐ OSRO ☐ Both ☐

B. Provide attachment listing Equipment and Personnel

C. Was equipment deployed in its inteded operating environment? Yes ☐ No ☐

D. Describe objectives and how they were exercised: _____

E. Descriptions of lessons learned: _____

F. Is Spill Response Equipment in a Preventative Maintenance Program? Yes ☐ No ☐

G. Self Certification: Name: _____ Title: _____

Second ***EQUIPMENT DEPLOYMENT EXERCISE***

Date:_____ ☐ Announced ☐ Unannounced

A. Equipment Ownership: Facility ☐ OSRO ☐ Both ☐

B. Provide attachment listing Equipment and Personnel

C. Was equipment deployed in its inteded operating environment? Yes ☐ No ☐

D. Describe objectives and how they were exercised: _____

E. Descriptions of lessons learned: _____

F. Is Spill Response Equipment in a Preventative Maintenance Program? Yes ☐ No ☐

G. Self Certification: Name: _____ Title: _____

Figure 3.9-4

TESORO SPILL MANAGEMENT TEAM TABLETOP EXERCISE FORM

SPILL MANAGEMENT TEAM TABLETOP EXERCISE

RESPONSE CATEGORY

☐ Announced ☐ Unannounced

☐ Average Most Probable Discharge ☐ Maximum Most Probable Discharge ☐ Worst Case Discharge

☐ Simulated _____ bbls ☐ Real _____ bbls

PREP CORE REQUIREMENTS COMPLETED THIS CALENDAR YEAR

☐ Notifications	☐ Assessment	☐ Protection of Sensitive Areas
☐ Staff Mobilization	☐ Containment	☐ Personnel Support
☐ Response Management System	☐ Recovery	☐ Equipment Maintenance
☐ Unified Command	☐ Disposal	☐ Procurement
☐ SMT Operations	☐ Communications	☐ Documentation
☐ Discharge Control	☐ Transportation	☐

EXERCISE OBJECTIVES

LESSONS LEARNED

APPROVED BY:

RESPONSIBLE PARTY	DATE
FEDERAL ON-SCENE COORDINATOR	DATE
STATE ON-SCENE COORDINATOR	DATE
LOCAL ON-SCENE COORDINATOR	DATE

LIST OF ATTACHMENTS:

☐ Incident or Scenario & Objective of Exercise/Incident	☐ Incident Action Plan (IAP)
☐ ICS 201 Initial Incident Briefing	☐ Critique/Lessons Learned
☐ List of Equipment Operational Problems	☐ ICS 211P (OS) Check-in List
☐ _____	☐ _____

Attachments on file with Supervisor Contingency Planning and Emergency Response, Tesoro Alaska Refinery

Table 3.9-2

SUGGESTED TRAINING ELEMENTS

(Based on the Training Reference for Oil Spill Response 1994 – USCG, DOT-OPS, EPA)

Training Element	Qualified Individual (QI)	Spill Management Team (SMT)	Facility Responders
Captain of the Port (COTP) Zones or Environmental Protection Agency (EPA) regions in which the facility is located.	X	X	X
Notification procedures and requirements for facility owners or operators; internal response organizations; federal and state agencies; and contracted oil spill removal organizations (OSRO's) and the information required for those organizations.	X	X	X
Communication system used for the notifications.	X	X	X
Information on the products, stored, used, or transferred, by the facility, including familiarity with the material safety data sheets, special handling procedures, health and safety hazards, spill and fire fighting procedures.	X	X	X
Procedures the facility personnel may use to mitigate or prevent any discharge or a substantial threat of a discharge of oil resulting from facility operational activities associated with internal or external cargo transfers, storage, or use.	X	X	X
Facility personnel responsibilities and procedures for use of facility equipment which may be available to mitigate or prevent an oil discharge.	X	X	X
Operational capabilities of the contracted OSRO's to respond to the following: • Average most probable discharge (small discharge); • Maximum most probable discharge (medium discharge); and • Worst case discharge.	X	X	X
Responsibilities and authority of the Qualified Individual as described in the facility response plan and company response organization.	X	X	X
The organizational structure that will be used to manage the response actions including: • Command and control; • Public information; • Safety; • Liaison with government agencies; • Spill response operations; • Planning; • Logistics support; and • Finance.	X	X	X
Responsibilities and authority of the Qualified Individual as described in the facility response plan and company response organization.	X	X	X
The responsibilities and duties of each oil spill management team within the organizational	X	X	

Training Element	Qualified Individual (QI)	Spill Management Team (SMT)	Facility Responders
structure.			
The drill and exercise program to meet federal and state regulations as required under OPA.	X	X	X
The role of the Qualified Individual in the post discharge review of the plan to evaluate and validate its effectiveness.	X		
The Area Contingency Plan (ACP) for the area in which the facility is located.	X	X	X
The National Contingency Plan (NCP).	X	X	X
Roles and responsibilities of federal and state agencies in pollution response.	X	X	X
Available response resources identified in response plan.	X	X	
Contracting and ordering procedures to acquire oil spill removal organization resources identified in the response plan.	X	xo	X
OSHA requirements for worker health and safety (29 CFR 1910.120).	X	X	X
Incident Command System/Unified Command System.	X	X	
Public Affairs.	X	X	
Crisis management.	X	X	
Procedures for obtaining approval for dispersant use or in-situ burning of the spill.	X		
Oil spill trajectory analyses.	X		
Sensitive biological areas.	X	X	
This training procedure as described in the response plan for members of the spill management team		X	
Procedures for the post discharge review of the plan to evaluate and validate its effectiveness.		X	
Basic information on spill operations and oil spill clean-up technology including: • Oil containment; • Oil recovery methods and devices; • Equipment limitations and uses; • Shoreline clean-up and protection; • Spill trajectory analysis; • Use of dispersants, in-situ burning, bioremediation; and • Waste storage and disposal considerations.		X	
Hazard recognition and evaluation.		X	
Site safety and security procedures,		X	
Personnel management, as applicable to designated job responsibilities.		X	

Training Element	Qualified Individual (QI)	Spill Management Team (SMT)	Facility Responders
Procedures for directing the deployment and use of spill response equipment, as applicable to designated job responsibilities.			
Specific procedures to shut down affected operations.			x
Procedures to follow in the event of discharge, potential discharge, or emergency involving the following equipment or scenarios: • Tank overfill; • Tank rupture; • Piping or pipeline rupture; • Piping or pipeline leak, both under pressure or not under pressure, if applicable; • Explosion or fire; • Equipment Failure; and • Failure of secondary containment system.			x
Name of the Qualified Individual and how to contact him or her.			x

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3.10 PROTECTION OF ENVIRONMENTALLY SENSITIVE AREAS

18 AAC 75.425(e)(3)(J) (protection of environmentally sensitive areas and areas of public concern) – This section requires identification of environmentally sensitive areas and areas of public concern that may suffer an impact from an oil release. Tesoro Incident Command Team will work closely with trustee agencies to formulate and carry-out spill response strategies. It is anticipated that the identification of sensitive areas will proceed through stages as the spill response develops. Initially the Incident Commander will utilize the information contained in the CISPRI Technical Manual (CTM) tactics CI-SA-1 and CI-SA-2 and the "Environmental Sensitivity Index" maps owned by CISPRI. As soon as it becomes apparent that additional information is needed, the appropriate state and federal agencies will be contacted and requested to supply both information and personnel. Release sites limited within the controlled portions of the Kenai Refinery and Nikiski Terminal are not applicable to this provision. All pipeline portions outside the fenced, controlled areas of these facilities, and the Anchorage pipeline receiving area are potentially environmentally sensitive and/or areas of public concern as described below. This section also requires a description each area, including:

18 AAC 75.425(e)(3)(J)(i) (the effect of seasonal conditions on the sensitivity of each area): Above and below freezing temperatures is the primary seasonal variations effecting area sensitivities. In general sensitivities decrease during sub-freezing conditions due to senescence, hibernation, migrations out of region, and decreased oil mobility. Flowing water typically presents the highest sensitivity potential, and as described throughout the plan, provisions for rapid containment boom deployment are in place to minimize these effects.

18 AAC 75.425(e)(3)(J)(ii) Toxicity effects and persistence): Toxicity effects and persistence characteristics as related to environmentally sensitive areas and areas of public concern for products subject to this Plan are described in applicable Material Safety Data Sheets (see Section 3.1.1), and Tables B1 and B2 of 18 AAC 75 Article 3.

18 AAC 75.425(e)(3)(J)(iii) (area prioritization): Impacted environmentally sensitive areas and areas of public concern will be immediately prioritized from the beginning of the response. Human health and safety, including the effected public and responders will always be the top priority. Additional prioritization will be based on resources at risk, socioeconomic implications and other considerations based on careful integration of concerns from regulators and the effected public. Integrating diverse concerns into a practical response prioritization will be conducted in accordance with Incident Command System principles as described in Section 3.3

3.10.1 ENVIRONMENTAL RESOURCE INFORMATION

Extensive environmental sensitivity maps and information are available from the agencies that can be used by oil spill responders to identify important areas and species so that they can be protected. The following books are incorporated into the plan by reference:

Environmental Sensitivity Index (ESI) Maps; These key books cover Cook Inlet, Kodiak, and Prince William Sound for Sensitive Area identification in oil spill response planning. CISPRI has a set of ESI books covering their response areas.

Environmental Sensitivity (ESI) Maps (1994); This series of four environmental sensitivity maps covers Cook Inlet throughout each of the four seasons. These maps are considered the standard for identification in oil spill response planning. CISPRI and Tesoro have ESI maps covering the Cook Inlet response area. Additional mapping is currently in progress for Kodiak Island.

Alaska Habitat Management Guides are published by the Alaska Department of Fish and Game Division of Habitat. This series of books summarize abundance data on important fish, wildlife, and human use areas throughout the state. This series includes a full colored map atlas which shows seasonal distribution of fish and wildlife. These books are available at CISPRI.

Catalog of Waters Important for the Spawning, Rearing, or Migration of Anadromous Fishes is published by the ADF&G Habitat Division. It provides maps showing all anadromous streams in Alaska. A copy is available at CISPRI.

Catalog of the Alaska State Park System is published by the State of Alaska, Department of Natural Resources. It provides maps and information on all Alaska State Parks on a statewide basis.

Cook Inlet Geographic Response Strategies is a supplement to the Cook Inlet Sub-area plan developed by a cooperative effort through a working group process. This plan provides strategies to protect identified environmentally sensitive areas.

Additional specific information may also be published by the borough offices near Cook Inlet, Prince William Sound, and Kodiak. The Incident Commander is encouraged to contact the borough planning departments with requests for information.

3.10.2 CULTURAL RESOURCES

Clean-up activities which result from a major oil spill could have a significant impact on cultural and archaeological resources along the shorelines Cook Inlet. This region is known to hold prehistoric and historic sites reflecting over 7,000 years of Alaskan heritage. The information from these sites forms a record of occupation by Native, Russian, and American cultures that must be preserved.

The Alaska Department of Natural Resources (ADNR) manages and controls state owned lands and water including uplands, tide lands, and submerged lands to the 3-mile territorial limit. ADNR is responsible for the preservation of historic sites that may be found within this territorial limit. The State Historic Preservation Officer (SHPO) working for the Office of History & Archaeology must be notified in the event there is an oil spill which may impact lands under control of ADNR. Contact information can be found in Section 1.2 Reporting and Notifications. Additional information is located in the CISPRI Technical Manual, Unified Plan and Cook Inlet Sub-Area Plan

Additional information regarding specific cultural resource program permits can be obtained through CISPRI's industry representative on the Alaska Regional Response Team (cultural resource working group) as outlined in CTM Tactic CI-SA-3.

3.10.3 AREAS OF PUBLIC CONCERN

The Tesoro Alaska Pipeline consists of approximately 70 miles of a 10 inch buried pipeline. The pipeline right-of-way is marked with locate markers the entire route.

The pipeline does cross in front of the **Turnagain Arm Elementary School** located on Northern Lights Blvd. A grassy area, parking lot and driveway provides separation between the pipeline right-of-way from the school (approx 100 feet). There are three separate road egress routes in and out of the school to the main highway. Tesoro meets with the Turnagain Arm Elementary School administration on an annual basis and provides information on the location of the pipeline and what to do in an emergency in accordance with DOT requirements. The Administration of the **Turnagain Arm Elementary School** can be contacted using information in Section 1.2 Reporting and Notifications.

The Tesoro Alaska Pipeline also passes the FedEx facility at the Stevens Anchorage Airport. **FedEx** is aware of our pipeline location.

Because of road traffic any spill would be reported immediately via **911.**

Tesoro also meets with the Anchorage Fire Department (AFD) on an annual basis to develop response strategies. The Anchorage Fire Department has indicated to Tesoro that AFD will be the Incident Commander during the emergency phase of any spill or fire. The Anchorage Fire Department will be responsible for the notification and evacuation, if necessary, of any population effected by the incident. They will also secure the scene. The Anchorage Fire Department Hazmat unit would be called out on any petroleum spill.

3.10.4 AREAS RECEIVING PRIORITY PROTECTION

Tesoro will aggressively respond to all spills regardless of any prioritization. We recognize that there are areas of significant environmental and areas of public concern along the pipeline route that require a higher level of response measures. The following is a listing of those areas:

Tesoro Alaska Pipeline:

The following areas along the pipeline route would be designated as areas receiving priority protection.

1. Daniels Creek

2. Bishop Creek

3. Swanson River

4. Otter Creek

5. Seven Egg Creek

6. Miller Creek

7. Kenai Moose Range

8. Turnagain Arm Elementary School

9. Fish Creek

10. Chester Creek

11. Ship Creek

3.10.5 WILDLIFE

A comprehensive listing of wildlife tactics and information that Tesoro will follow is available in the CISPRI Technical Manual. Wildlife contractors are available through CISPRI as shown in CTM tactic CI-LP-3. Wildlife equipment is described is listed in the CTM in tactic CI-LP-4. Wildlife protection and

capture strategies are shown in the CTM, tactics CI-W-1 and CI-W-2. Additional information on Bird and Otter rehabilitation and release can be found in tactic CI-W-4.

3.11 BIBLIOGRAPHY

18 AAC 75 – Oil and Other Hazardous Substances Pollution Control

API 650 – Welded Steel Tanks for Oil Storage

API 652 – Lining of Aboveground Petroleum Tank Bottoms.

API 653 – Tank Inspection, Repair, Alteration, and Reconstruction

AIMS Manual

Coast Guard Field Operations Guide

Environmental Sensitivity Index (ESI) Maps; These key books cover Cook Inlet, Kodiak, and Prince William Sound for Sensitive Area identification in oil spill response planning.

Environmental Sensitivity (ESI) Maps (1994); This series of four environmental sensitivity maps covers Cook Inlet throughout each of the four seasons.

Alaska Habitat Management Guides are published by the Alaska Department of Fish and Game Division of Habitat. This series of books summarize abundance data on important fish, wildlife, and human use areas throughout the state. This series includes a full colored map atlas which shows seasonal distribution of fish and wildlife. These books are available at CISPRI.

Catalog of Waters Important for the Spawning, Rearing, or Migration of Anadromous Fishes is published by the ADF&G Habitat Division.

Catalog of the Alaska State Park System State of Alaska, Department of Natural Resources. It provides maps and information on all Alaska State Parks on a statewide basis.

CISPRI Technical Manual (www.cispri.org)

Cook Inlet Geographic Response Strategies is a supplement to the Cook Inlet Sub-area plan developed by a cooperative effort through a working group process. This plan provides strategies to protect identified environmentally sensitive areas.

NACE RP0193-2001 - Standard Recommended Practice: External Cathodic Protection of ON-Grade Carbon Steel Storage Tank Bottoms

STI SP001 – Standard for the Inspection of Aboveground Storage Tanks

Leffler, William D, 2009 – Petroleum Refining in Non-Technical Language, 4th Ed

Meisner, Thomas O et.al., 2006 - Oil and Gas Pipelines in Non-Technical Language

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PART 4

BEST AVAILABLE TECHNOLOGY

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4.1 BEST AVAILABLE TECHNOLOGY

The following Best Available Technology (BAT) review was conducted in accordance with the requirements of 18 AAC 75.425(e)(4) and applicable criteria in 18 AAC 75.445(k). The format used in this section is in accordance with the supplement to ADEC "Oil Discharge Prevention and Contingency Plan" application and review guidelines of July 1994 for "Best Available Technology" revised 1 December 1997.

The following BAT reviews are provided below:

- Communications (18 AAC 75.425(e)(4)(A)(i))
- Source Control Procedures (18 AAC 75.425(e)(4)(A)(i))
- Trajectory analyses and forecasts (18 AAC 75.425(e)(4)(A)(i))
- Wildlife Capture, Treatment, and Release Programs (18 AAC 75.425(e)(4)(A)(i))
- Oil Storage Tank CP and Corrosion Control (18 AAC 75.425(e)(4)(A)(ii))
- Oil Storage Tank Leak Detection (18 AAC 75.425(e)(4)(A)(ii))
- Oil Storage Tank liquid Level Monitoring (18 AAC 75.425(e)(4)(A)(ii))
- Piping Corrosion Control (18 AAC 75.425(e)(4)(A)(ii))
- Piping Corrosion Survey (18 AAC 75.425(e)(4)(A)(ii))

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4.1.1 Communications

Table 4.1-1

COMMUNICATIONS 18 AAC 75.425 (e) (4) (A) (i)

Best Available Technology (BAT) for field communication systems is a combination of procedures and equipment. CISPRI Technical Manual tactic CI-LP-2 provides a description of the CISPRI Communications network.

The equipment to implement these procedures takes advantage of marine radio systems available today. The system uses radio and telephone communication methods. Tactic CI-LP-2 describes the various components of the CISPRI communications systems including:

- **Very High Frequency (VHF)**
- **Ultra High Frequency (UHF)**
- **Satellite Radios**
- **Single Sideband Radio (SSB)**

Tesoro can maintain radio contact throughout the CISPRI response zone through a series of bases stations and repeaters.
Telephone communications are accomplished using landlines, satellite and cellular capability. Many Tesoro responders and Incident Management Team members have Cellular phone service.

EVALUATION CRITERIA	EXISTING VHF/UHF RADIO	ALTERNATIVE TECHNOLOGY VHF/UHF TRUNKING	EXISTING IRIDIUM SATELLITE PHONES	EXISTING CELLULAR PHONES	ALTERNATIVE TECHNOLOGY GLOBALSTAR OR INMARSAT SATELLITE PHONES
A. AVAILABILITY **(i) Is the technology the best in use in other similar situations?** **(ii) Is the technology available for use by the applicant?**	VHF/UHF radios and satellites are acceptable standard for marine / aircraft communications throughout the world. CISPRI has repeater stations throughout Cook Inlet area. This technology is currently in use.	Trunking systems are available, provide enhanced penetration, but may be blocked under heavy loads.	Iridium phones are readily available from a number of vendors.	Cellular phones are readily available from a number of vendors. The majority of Tesoro Incident Management Team members have cellular phones with email capabilities. Coverage is good to excellent in most Cook Inlet Areas.	Coverage is good to excellent in most Cook Inlet Areas. Globalstar phones are readily available from a number of vendors. Inmarsat is widely used on larger vessels but has limited application to smaller vessels due to the need for a fixed antenna.
B. TRANSFERABILITY **Can the technology be applied to the applicants operation?**	The current system makes use of transferable technology.	Not readily transferred. Trunking technology would not be compatible with conventional VHF radios found on contract vessels.	The current system makes use of transferable technology.	The current system makes use of transferable technology.	Could be transferred
C. EFFECTIVENESS Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?	The current system has demonstrated its effectiveness for both routine and emergency operations.	Less effective in a spill response. Out-of-region resources would not be able to communicate on trunked systems with their current VHF/UHF radios.	The current system has demonstrated its effectiveness for both routine and emergency operations.	The current system has demonstrated its effectiveness for both routine and emergency operations.	Inmarsat could be as effective but much less practical due to size limitations. Globalstar may be less effective due to satellite locations as compared to Iridium. There are concerns over the continued viability of the Globalstar satellite.
D. COST **(i) Cost of achieving BAT;** **(ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.**	No new costs are warranted, with the exception of periodic upgrades. System already in place.	Significant. Current system has several years remaining. Costs would be extremely prohibitive. >Millions to cover entire CISPRI response zone.	CISPRI has a very limited amount of Iridium phones available. Tesoro can add additional phones if needed through local vendors.	The majority of Tesoro Incident Management Team members have cellular phones with email capabilities.	Comparable to Iridium systems. However this would be a major purchase to upgrade.
E. AGE & CONDITION **Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.**	The age of the current system varies. Communications equipment is in daily use and maintained on a routine basis.	Not applicable	The age of the current system varies. Communications equipment is regularly maintained.	The age of the current system varies. Cellular phones are periodically upgraded.	Not applicable
F. COMPATIBILITY **Is the technology compatible with existing operations?**	The current system has been developed and maintained through operational experience in the Cook Inlet area. The system is part of CISPRI current operations.	Not compatible with current CISPRI communications system.	The current system has been developed and maintained through operational experience in the Cook Inlet area. The system is compatible with CISPRI current operations.	The system is compatible with CISPRI current operations. CISPRI has a repeater inside the Command Post to enhance reception.	Compatible with current CISPRI communications system.
G. FEASIBILITY **Feasibility of this technology from an engineering and operational view.**	No Change	Not likely to be successfully applied. In order to provide coverage additional repeaters may be needed. This would be cost prohibitive.	No Change	No Change	Not feasible due to size and satellite coverage.
H. ENVIRONMENTAL IMPACT **Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?**	No known adverse environmental impacts.	Additional repeaters would require additional remote site repeater construction and would require additional power needs.	No known adverse environmental impacts.	No known adverse environmental impacts.	No known adverse environmental impacts.

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4.1.2 Source Control Procedures

Table 4.1-2

Source Control Procedures (18 AAC 75.425(e)(4)(A)(i))				
Existing Tesoro currently has procedures to stop a tank or pipeline failure including plugging the tank or pipe with friction plugs, shutting off other in line valves, or using earthen material to prevent the spread of the spilled material. This technology is already at Tesoro Alaska facilities. If a leak is detected the Tesoro Tank Farm operators can immediately secure all pumps to the Tesoro Alaska pipeline securing the leak at the source. Valves would then be secured as needed in sequence around the area of failure. Downstream valves would be secured last after pressure in the line has dissipated.		**Alternative Technology** **Option 1:** For tank and pipeline failure a quick setting cement compatible with fuel products is placed on the tank or pipe failure to plug the discharge. This technology is currently available.	**Alternative Technology** **Option 2:** Tank or pipe repair bands over failed area to plug discharge.	**Alternative Technology** **Option 3:** Use of remotely located Motor Control Valves (Tesoro Alaska Pipeline)
EVALUATION CRITERIA	EXISTING	ALTERNATIVE TECHNOLOGY OPTION 1:	ALTERNATIVE TECHNOLOGY OPTION 2:	ALTERNATIVE TECHNOLOGY OPTION 3:
A. AVAILABILITY **(i) Is the technology the best in use in other similar situations?** **(ii) Is the technology available for use by the applicant?**	No Change	(i) Yes for pipeline, but would not be effective for large tanks or pipelines under pressure. (ii) Yes	(i) Yes for pipeline, but would not be effective for large tanks. (ii) Yes	(i) Yes for Tesoro Alaska Pipeline, but would not be effective for inter Refinery piping systems. (ii) Yes
B. TRANSFERABILITY **Can the technology be applied to the applicants operation?**	No Change	Technology could be transferred to Tesoro's existing programs	Technology could be transferred to Tesoro's existing programs	Technology could be transferred to Tesoro's existing programs with modification
C. EFFECTIVENESS **Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?**	No Change	Technology may be to slow to be effective in most cases.	The technology is applicable to pipeline failures and has been used on occasion. Technology is not effective for tank failures due to the large tank diameters	This technology would enhance the time to secure a valve but may or may not be effective in stopping a discharge depending on the head pressure existing in the pipeline at any given time.
D. COST **(i) Cost of achieving BAT;** **(ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.**	No change in cost with existing system	(i) Cost would be minimal for 5 gallon bucket of premix quick setting cement. (ii) Not applicable	Repair sleeves for a 10' line cost estimated at $10,000 each.	(i) Cost for remotely operated motor controlled valves would be estimated at approximately 1.5 million. (ii) Not applicable
E. AGE & CONDITION **Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.**	The existing technology currently used by Tesoro has been implemented in Tank and pipelines for many years, and is a common sense approach to stopping a discharge. Unlimited useful life.	Has been available for several years. Material would be new.	Repair bands have been available for pipelines for several years. Material should be new.	Tesoro has demonstrated the integrity of the line by smart pigging and excavation surveys beyond current requirements in an effort to be proactive in our prevention efforts. Only two valves in the Tesoro Alaska pipeline system can be considered remote, all other lines are accessible via road access
F. COMPATIBILITY **Is the technology compatible with existing operations?**	No Change	Yes, Placing a quick setting cement plug in a tank or pipeline failure is compatible with the existing facility.	Installation would be compatible with existing facility procedures	Potentially, valves may not accept remote actuators. This modification may not be a compatible technology with the current Tesoro Alaska Pipeline valve configuration. Communications and power systems would need to be installed at the current valve locations.
G. FEASIBILITY **Feasibility of this technology from an engineering and operational view.**	No Change	Feasible with little modification to present inspection program. Not feasible for leaks under pressure without additional plugging equipment.	Repair bands are effective for temporary pipeline repairs but not for tank repairs.	Feasible with major modification to present piping system. Pipeline would need to be secured for a extended period if valve replacement is required. This could impact product deliveries to Anchorage and the Ted Stevens International Airport.
H. ENVIRONMENTAL IMPACT **Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?**	No Change	None noted	None noted	Small footprint at existing valve locations would have to be enlarged. A system to communicate and power the remotely controlled valve system would require substantial engineering and construction.
BAT SUMMARY: The existing technology utilized by Tesoro is sufficient to stop a pipe line leak or tank leak. This was demonstrated on a spill that occurred in 2001 in the Captain Cook incident. The pipeline pumps were secured and the pipeline was shut down. Pump shutdowns and MOV controls are located in the Pipeline control room both on Kenai and the Anchorage Pipeline office. Pumps and valves can be secured immediately. Pipe repair bands will be recommended for refinery pipe repair kits.				

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4.1.3 Trajectory analyses and forecasts (18 AAC 75.425(e)(4)(A)(i))

Table 4.1-3

TRAJECTORY ANALYSIS AND FORECASTS 18 AAC 75.425 (e) (4) (A) (i)

Best Available Technology (BAT) for real-time surveillance and tracking of discharged oil on open water and forecasting of its expected shoreline impacts is realized by the use of procedures, equipment and limited computer tracking.

The tracking and surveillance methods evaluated by Tesoro through CISPRI include:

- **Visual surveillance** (observations) by response personnel, in some instances augmented with infrared technology, and reporting those observations to the CISPRI Command Post (See CI-TS-1).
- **Visual and electronic surveillance** of tracking buoys (See CI-TS-2 for on water and CI-TS-3 for on land).
- **Limited computer–based predictive trajectory modeling** capable of using real-time surveillance reports from the field to truth computer predictions.

Visual Surveillance / Hand Calculations: Visual surveillance is accomplished using trained personnel to observe and report the spread of oil from aircraft or vessel platforms. Based upon those observations, Observers estimate the amount of oil on the surface of the water (See CI-TS-3) and calculate the trajectory. Observations are relayed to the CISPRI Command Post for incorporation into response strategies and real-time trajectory modeling. Trajectory information is displayed with the use of OZI Explorer. This has been a simple tool to track a spill.

Oil directions and speed are calculated from water current, tidal and wind data. This approach assumes that wind moves oil at three percent of wind speed. These calculations are used in conjunction with computer modeling.

Updated information on spill location and movement is obtained through radio reports from aerial and vessel observers, infrared surveillance, photographs and tracking buoys. As changes take place, this information is incorporated into the computer model to provide more accurate results.

Tracking Buoys: Tracking buoys are specifically designed to be deployed into spilled oil. The buoys are designed to move at the same rate as the oil moves. Tracking buoys can be tracked electronically or visually. Electronic surveillance is used to determine the buoy's real-time position. Buoys are generally deployed at the leading edge of an oil spill to track its movement. Tracking buoys can also be introduced ahead of a spill to determine how this currents, wind and tides will affect the trajectory.

General NOAA Operational Modeling Environment: The General NOAA Operational Modeling Environment (GNOME) trajectory model was developed to use in tracking spills and forecasting trajectories for the Federal On-Scene Coordinator (FOSC). The NOAA models provide fair trajectory information and can be further enhanced with real-time surveillance to truth the predictions. Because of the Rips and Tidal currents prevalent in Cook Inlet no electronic system has proven itself completely accurate.

Best Available Technology Review: The following table demonstrates the use of visual, infrared, tracking buoys and computer based systems provide the most appropriate system for trajectory analysis and forecasting in Cook Inlet waters.

EVALUATION CRITERIA	EXISTING VISUAL SURVEILLANCE & MANUAL CALCULATIONS	EXISTING TRACKING BUOYS	ALTERNATIVE TECHNOLOGY GNOME
A. AVAILABILITY (i) Is the technology the best in use in other similar situations? (ii) Is the technology available for use by the applicant?	This technology is currently available in recognized worldwide.	This technology is currently available in recognized worldwide.	Available as a standard version. Advanced application of GNOME requires a NOAA SSC to be present.
B. TRANSFERABILITY Can the technology be applied to the applicants operation?	Current in use.	Current in use.	The standard version can be downloaded from the NOAA Website.
C. EFFECTIVENESS Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?	The current system has demonstrated its effectiveness for both routine and emergency operations.	The current system has demonstrated it's effectiveness by use of drills and exercises.	Computer based trajectories have not shown the accuracies needed to predict oil movement without additional input from other surveillance activities.
D. COST (i) Cost of achieving BAT; (ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.	No new costs. System already in use via OZI Explorer.	No new costs. System already in use.	No new costs. System already in use.
E. AGE & CONDITION Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.	Current in use.	Current in use.	This is a NOAA based computer trajectory tracking system. Age is unknown.
F. COMPATIBILITY Is the technology compatible with existing operations?	The system is compatible with CISPRI current operations when used in conjunction with visual, tracking buoys and computer modeling.	The system is compatible with CISPRI current operations when used in conjunction with visual, tracking buoys and computer modeling.	The system is compatible with CISPRI current operations.
G. FEASIBILITY Feasibility of this technology from an engineering and operational view.	Current in use.	Current in use.	No Change
H. ENVIRONMENTAL IMPACT Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?	Not applicable.	Not applicable.	Not applicable.

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4.1.4 Wildlife Capture, Treatment, and Release Programs (18 AAC 75.425(e)(4)(A)(i))

Table 4.1-4

WILDLIFE HAZING, CAPTURE, TREATMENT AND RELEASE 18 AAC 75.425 (e) (4) (A) (i)

The CISPRI Technical Manual (CTM) provides Tactics CI-W-1 through CI-W-5 that provides procedures and information for hazing, capturing, transporting and treatment of oil wildlife as well as recovering dead wildlife. The BAT analysis is based on the guidelines published by wildlife trustee agencies.

Hazing procedures are outlined in CTM Tactic CI-W-1. Equipment for hazing includes audible alarms, pyrotechnics and non-intrusive devices such as mylar tape and balloons. The use of hazing devices is based on advice from the U.S. Department of Agriculture.

Capture procedures are described in Tactic CI-W-2. Equipment for capture includes nets and prefabricated cages.

Holding, stabilization and cleaning practices are described in Tactics CI-W-4 and CI-W-5. CISPRI maintains or has access to modular, special purpose units designed to stabilize, clean and promote the recovery of oil-contaminated birds and small animals.

CISPRI has an extensive Otter rehabilitation module that was designed in consultation with Mr. Jim Styers.

Release procedures and practices, described in the Unified Plan, are conducted under the approval and supervision and of appropriate trustee agencies.

A list of wildlife response organizations and contractors is provided in CTM Tactic CI-LP-3.

Tesoro and CISPRI follow the Alaska Regional Response Team (ARRT) Wildlife Protection Guidelines for Alaska (2002). CISPRI contractors for the wildlife program are pre-permitted to conduct wildlife activities where regulations provide for such pre-permitting. Implementation depends on the permitting and approvals at the time of the incident from the respective agencies.

EVALUATION CRITERIA	EXISTING PRACTICE	ALTERNATIVE TECHNOLOGY
A. AVAILABILITY (i) Is the technology the best in use in other similar situations? (ii) Is the technology available for use by the applicant?	CISPRI wildlife program has been vetted and approved by wildlife experts and appropriate agency representatives. The program has proven to be the best available technology based on experience.	**No other alternatives identified.**
B. TRANSFERABILITY Can the technology be applied to the applicants operation?	The current system makes use of transferable technology.	**No other alternatives identified.**
C. EFFECTIVENESS Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?	Effectiveness has been demonstrated through similar system use in actual spill events in other areas.	**No other alternatives identified.**
D. COST (i) Cost of achieving BAT; (ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.	CISPRI has dedicated over $500k to meet Best Available Technology requirements.	**CISPRI expects many more years of service of this equipment.**
E. AGE & CONDITION Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.	The majority of CISPRI wildlife equipment is maintained in sheltered buildings. Most is less than 12 years old. Wildlife equipment maintained in good condition.	**Not applicable**
F. COMPATIBILITY Is the technology compatible with existing operations?	Compatibility has been demonstrated through similar system use in actual spill events in other areas.	**No other alternatives identified.**
G. FEASIBILITY Feasibility of this technology from an engineering and operational view.	Feasibility has been demonstrated through similar system use in actual spill events in other areas.	**No other alternatives identified.**
H. ENVIRONMENTAL IMPACT Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?	Current system is expected to minimize environmental impacts.	**Not applicable**

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4.1.5 Oil Storage Tanks

Table 4.1-5

Oil Storage Tank CP and Corrosion Control (18 AAC 75.425(e)(4)(A)(ii))			
Existing Thick Film Liners are used per the ADEC Alternate Compliance Schedule Refinery Tanks are moving to a CP based leak detection We inspect 100% MFE on the tank bottoms We conduct Soils Resistivity Testing		**Alternative Technology** **Option 1:** A Managed Cathodic Protection Program for each Tank	N/A
EVALUATION CRITERIA	EXISTING	ALTERNATIVE TECHNOLOGY OPTION 1:	
A. AVAILABILITY **(i) Is the technology the best in use in other similar situations?** **(ii) Is the technology available for use by the applicant?**	No Change	(i) Yes (ii) Yes	
B. TRANSFERABILITY **Can the technology be applied to the applicants operation?**	No Change	Yes	
C. EFFECTIVENESS **Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?**	No Change	Yes	
D. COST **(i) Cost of achieving BAT;** **(ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.**	No change in cost with existing system	i) The cost can range from $30K + per tank for initial installation and thousands more per year for upkeep ii) The cost of moving to a managed CP program are fair when considering the maintenance and upkeep of the thick film liners	
E. AGE & CONDITION **Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.**	Thick Film Liners have an accepted service life of 15 years	As the Thick Film Liners reach the end of their service life, we will continue to phase in Tank CP programs.	
F. COMPATIBILITY **Is the technology compatible with existing operations?**	No Change	Yes	
G. FEASIBILITY **Feasibility of this technology from an engineering and operational view.**	No Change	Yes	
H. ENVIRONMENTAL IMPACT **Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?**	No Change	Penetration of bentonite liners; Deep well anodes risk aquifer cross-contamination; Both of these risks would be carefully managed.	
BAT SUMMARY: 1. Internal thick film liners have been/are being used. 2. As the thick film liners reach the end of their life, we will be evaluating and potentially replacing those systems with a Cathodic Protection system if moving to the CP system is the better option in a case-by- case evaluation.			

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Table 4.1-6

Oil Storage Tank Leak Detection (18 AAC 75.425(e)(4)(A)(ii))			
Existing Description of Existing Technology: Existing technology for leak detection of above ground storage tank bottoms consists of the following: 1. Level indication system is readable from each tank. 2. Monthly checks of the calibration of the level instrumentation. 3. All tanks have thick film liners Or CP as applicable. 4. Monthly visual inspections of each tank.		Alternative Technology Option 1: Periodic leak detection surveys utilizing specialized equipment (Acoustic, Monitoring, Ultrasonic)	Alternative Technology Option 2: Double Floor Construction
EVALUATION CRITERIA	EXISTING	ALTERNATIVE TECHNOLOGY OPTION 1:	ALTERNATIVE TECHNOLOGY OPTION 2:
A. AVAILABILITY **(i) Is the technology the best in use in other similar situations?** **(ii) Is the technology available for use by the applicant?**	This technology is commonly used in the industry.	(i) Surveys utilizing leak detection equipment have been in use at other facilities. (ii) Yes	(i) Double floor construction with void space has been used in new construction (ii) Yes
B. TRANSFERABILITY **Can the technology be applied to the applicants operation?**	No Change	Yes	Yes
C. EFFECTIVENESS **Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?**	To date the use of thick film liners and sensitive gauging systems has proven highly effective.	We do not feel treat periodic monitoring would provide an increased spill prevention benefit	Yes
D. COST **(i) Cost of achieving BAT;** **(ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.**	No change in cost with existing system	(i) Estimated cost per tank for periodic surveys utilizing ultrasonic instrumentation is in the range of $20,000 to $30,000 per tank, per event. (ii) The new technology would be used to supplement existing mechanical integrity programs including current API-653 inspections policies.	(i) Estimated cost for installing double floors is in the range of $900,000 for each tank. (ii) Double floors would provide minimal improvement over the life of tanks. Current API-653 inspections and floor scan policy provide similar protection.
E. AGE & CONDITION **Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.**	Long history, reliable, good maintenance track record; etc. The VAREC gauges heads and floats were installed in 1969 (the oldest). All are in good condition and operational. Transitioning to radar level monitoring due to Varec component obsolescence.	Periodic surveys are entirely different from the continuous level monitoring currently utilized at the facility.	Installation of double-bottoms may be prohibitive based on current tank construction without substantial reconstruction.
F. COMPATIBILITY **Is the technology compatible with existing operations?**	Currently installed and compatible	Surveys would be performed as a maintenance function, minimizing the impact on existing operations	Double bottom would reduce tank capacity. Tanks may not be fully compatible to accept double floor installation. Would require a major tank outage and re-engineering.
G. FEASIBILITY **Feasibility of this technology from an engineering and operational view.**	Currently installed	Surveys would be performed as a maintenance function, minimizing the impact on existing operations.	Installation of Double floors may not be feasible from both an engineering and operational standpoint. Not economically feasible.
H. ENVIRONMENTAL IMPACT **Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?**	No Change – Existing system has not had any adverse Environmental impacts.	No	No
BAT SUMMARY: All tanks have thick film liners that meet the requirements of 18 AAC 75.065 (h)(1) (C) or CP (18 AAC 75.065(h)(2), as applicable Tank level indication system is sensitive enough to detect 1/8 of an inch change in level, readable from the tank and in the Tank Farm Control Room. The Tank Farm control room is manned 24 hours a day 365 days a year. Level indication is verified by monthly checks of the calibration of the level instrumentation. Past API tank inspections have demonstrated the structural integrity of our storage tanks. Tesoro verifies tank integrity with monthly visual inspections of each tank. Product loss from an environmental, as well as a business standpoint, is not acceptable. During our BAT review we discussed the potential use of acoustic detection systems similar to that used at the Anchorage Terminal. The group felt that due to the large amount of background noise at the Refinery this was not a viable option. We also discussed the use of Precision Tightness Testing similar to that offered by Mass Technology Corporation. The application could only be utilized on a case-by-case basis. At this time Tesoro utilizes the BAT technology with our current tank level instrumentation, thick film liners and the current API 653 internal and external inspection schedules.			

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Table 4.1-7

Oil Storage Tank Liquid Level Monitoring (18 AAC 75.425(e)(4)(A)(ii))			
Existing Description of Existing Technology: Existing technology for high level alarms for above ground storage tank consists of the following: 1. All tanks have two independent / redundant high level alarm systems built in. The primary system is a float type (VAREC) or radar. The secondary system is also a float type independent and redundant from the other (High AUX). Both systems sound a visual and audible alarm in the Tank Farm Control Room. Tank Farm control room is supervised around the clock. 2. Alarm system is set at a predetermined set point. 3. Monthly high level alarm verification checks.		**Alternative Technology** **Option 1:** A Tertiary independent system (Sensor Probe).	**Alternative Technology** **Option 2:** High level remote shutdown devices.
EVALUATION CRITERIA	EXISTING	ALTERNATIVE TECHNOLOGY OPTION 1:	ALTERNATIVE TECHNOLOGY OPTION 2:
A. AVAILABILITY **(i) Is the technology the best in use in other similar situations?** **(ii) Is the technology available for use by the applicant?**	Currently installed at Refinery and Nikiski Terminal and used.	(i) A third independent alarm system above and beyond what is currently used is not normally used. (ii) Yes	(i) Systems are available that could provide remote shutdown from remote loading areas. (ii) Yes
B. TRANSFERABILITY **Can the technology be applied to the applicants operation?**	Is currently applied to Refinery and Nikiski Terminal Operations.	Yes	Yes
C. EFFECTIVENESS **Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?**	System has been effective to date.	Tertiary system will not add any significant level of protection that is not already in place with the two existing installed systems.	Unknown
D. COST **(i) Cost of achieving BAT;** **(ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.**	No change in cost with existing system	(i) Estimated cost per tank for complete installation of ultra sensitive level indication for use in parallel to existing level indication is $10,000 to $15,000 per tank. (ii) The independent alarm system would be used to supplement existing level indicating instrumentation.	(i) Estimated cost for installing remote shutdown including substantial wiring and excavation would be $1,000,000 +.. (ii) Technology may not provide benefit for years remaining on tanks. System may not be compatible with vessel systems. (iii) This would be an additional system and not take the place of the existing.
E. AGE & CONDITION **Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.**	All high level alarms are presently operational and in good condition. Any repairs receive the high priority and are repaired immediately. High level alarm systems installed during the constructions, as early as 1969.condition and operational. Any repairs are given high priority.	Would be new. The existing high level alarm system was installed in 1996. Would be reasonable if tanks were not already monitored on a continuous basis by 24 hr a day by tank farm control room.	Would be new.
F. COMPATIBILITY **Is the technology compatible with existing operations?**	Currently installed and compatible		System would not be compatible with current piping and valve systems. Remote shutdown system may not be compatible with operation of our Process Units.
G. FEASIBILITY **Feasibility of this technology from an engineering and operational view.**	Currently installed		Remote shutdown system may not be feasible due to the above mentioned concerns: Operability and economic impact.
H. ENVIRONMENTAL IMPACT **Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?**	No Change – Existing system has not had any adverse Environmental impacts.	No	This system may be more detrimental to the environment than a benefit. Loading shock on the lines and valves may cause a failure rather than prevent one. Process upsets may also cause environmental problems.
BAT SUMMARY: Tesoro believes that the existing technology utilized at the Kenai Refinery & Nikiski Terminal meets the requirements of 18 ACC 75.065 (k)(3) and 18 ACC 75.065 (k)(4). Two independent alarm systems sound both a visual and audible alarm in the tank farm control room. A Varec or radar system is used to provide continuous readings and alarms in the event of any tank fluctuations. In addition, the system is verified on a monthly basis. After review we did not identify other systems. We felt the two systems already in place continue to meet the BAT criteria.			

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4.1.6 Piping Corrosion Control

Table 4.1-8

Piping Corrosion Control (18 AAC 75.425(e)(4)(A)(ii))				
Existing Corrosion control program for buried steel piping containing oil includes the operation and maintenance of cathodic protection systems for all buried piping (see Section 2.18) in accordance with 18 AAC 75.080(f). Annual cathodic protection surveys of these lines are conducted to ensure adequate protection is being achieved. All buried steel lines containing oil are externally coated. In addition, all buried steel lines are inspected, on a random basis whenever they are exposed. This inspection consists of a visual inspection of the pipe and coating, with pipe wall thickness readings, coating repair, pipe repair, or pipe replacements being implemented based upon the initial inspection. Monitoring programs for potential problem lines are also implemented based upon results of the inspections.		**Alternative Technology** **Option 1:** Cathodic protection systems using only sacrificial anodes.	**Alternative Technology** **Option 2:** Internal Pipe Coatings	**Alternative Technology** **Option 3:** Corrosion Inhibitors
EVALUATION CRITERIA	EXISTING	ALTERNATIVE TECHNOLOGY OPTION 1:	ALTERNATIVE TECHNOLOGY OPTION 2:	ALTERNATIVE TECHNOLOGY OPTION 3:
A. AVAILABILITY **(i) Is the technology the best in use in other similar situations?** **(ii) Is the technology available for use by the applicant?**	No Change	(i) Yes (ii) Yes	(i) Yes, where piping configuration allows (ii) Yes	(i) Yes (ii) Yes
B. TRANSFERABILITY **Can the technology be applied to the applicants operation?**	No Change	Yes, in select locations that have soil conditions that would allow sacrificial anodes to work.	No; due to configuration, most lines would be virtually impossible to internally line.	Yes, with major modifications.
C. EFFECTIVENESS **Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?**	No Change	No, usually obtain better output from impressed current type cathodic protection systems.	No; would not be as effective because it cannot be adapted to our existing piping.	Yes, could slightly increase the life of some lines.
D. COST **(i) Cost of achieving BAT;** **(ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.**	No change in cost with existing system	(i) Installation = 1 million + (ii) Remaining life >15+ years for most lines	(i) Complete revamp of all piping = $60+ million (ii) Remaining life > 15+ years for most lines	(i) Addition of an inhibitor additive system at a cost of 15K for each piping system. +- 15-20 K each year chemical costs (ii) Remaining life >15 - 20+ years for most lines
E. AGE & CONDITION **Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.**	Existing cathodic protection installed in early 1980's. Cathodic Protection Surveys are conducted on an annual basis. Rectifier readings are taken twice per month.		Would be new installation	Would be new installation
F. COMPATIBILITY **Is the technology compatible with existing operations?**	No Change	Yes, in select location with the proper soils.	Not compatible with existing system due to layout.	Not compatible with existing system due to age, location, configuration, etc.
G. FEASIBILITY **Feasibility of this technology from an engineering and operational view.**	No Change	Not likely to be successfully applied. Most soils around facility are very high resistivity, requiring artificial voltage be applied to anodes to get a useful level of protective current. (i.e. impressed current systems)	Not feasible with existing piping configuration, would require all piping be extensively modified or replaced.	Inhibitors may react with the Refinery process or the variety of crude oils that are processed by Tesoro.
H. ENVIRONMENTAL IMPACT **Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?**	No Change	Possibly; would increase odds of accidental damage to lines due to the increased excavation activity needed for installation. Potential for Bentonite lined areas to be compromised and fail causing pollution potential.	Yes; if all piping was modified/replaced to apply internal coatings, a tremendous amount of demobilized piping and other materials would then need disposal.	No change expected, with the exception of the toxicity of the inhibitor used.
BAT SUMMARY: We feel that the existing technology utilized by Tesoro is a sufficient Corrosion control program for buried steel piping containing oil includes the operation and maintenance of cathodic protection systems to provide cathodic protection for several groups of buried lines. Annual cathodic protection surveys of these lines are conducted to ensure adequate protection is being achieved. In addition, all buried steel lines are inspected on a random basis whenever they are exposed. This inspection consists of a visual inspection of the pipe and coating, with pipe wall thickness readings, coating repair, pipe repair, or pipe replacements being implemented based upon the initial inspection. Monitoring programs for potential problem lines are also implemented based upon results of the inspections. Tesoro has moved several of our buried piping systems above-ground as demonstrated in previous ADEC inspections.				

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Table 4.1-9

Piping Corrosion Survey (18 AAC 75.425(e)(4)(A)(ii))				
Existing A survey of all buried steel piping containing oil for the presence of corrosion is continually being conducted by inspecting on a random basis buried, oil containing lines for corrosion whenever they are exposed. In addition, for those lines specifically being cathodically protected, annual cathodic protection surveys are conducted to ensure adequate protection for these lines is being achieved. Tesoro has implemented a comprehensive API-570 piping Inspection program. Tesoro has moved many pipelines aboveground when feasible to do so.		**Alternative Technology Option 1:** Excavation of all buried steel lines containing oil in at least one location to inspect each line for condition and presence of corrosion.	**Alternative Technology Option 2:** Close Interval Cathodic Protection Survey	**Alternative Technology Option 3:** Smart Pigging
EVALUATION CRITERIA	EXISTING	ALTERNATIVE TECHNOLOGY OPTION 1:	ALTERNATIVE TECHNOLOGY OPTION 2:	ALTERNATIVE TECHNOLOGY OPTION 3:
A. AVAILABILITY **(i) Is the technology the best in use in other similar situations?** **(ii) Is the technology available for use by the applicant?**	No Change	(i) Yes (ii) Yes	(i) Yes ii) Yes	(i) Yes ii) Yes
B. TRANSFERABILITY **Can the technology be applied to the applicants operation?**	No Change	Yes	Yes but, technology shows only cathodic protection low areas or possible coating problems, not necessarily active corrosion sites.	No; due to configuration, most lines are not able to be smart pigged.
C. EFFECTIVENESS **Is there a reasonable expectation that the technology will provide increased spill prevention or other Environmental benefits?**	No Change	Yes, would slightly increase the number of lines examined over existing method.	No, would not be effective because most refinery piping in groups within a single right of way and would be difficult to obtain readings on individual lines.	No, would not be effective because cannot be adapted to our existing piping.
D. COST **(i) Cost of achieving BAT;** **(ii) Consideration of cost in relation to remaining years of service of current technology in use by applicant.**	No change in cost with existing system	(i) Excavation & inspect. crew for a summer = 1 million+/yr (ii) Remaining life >15 years for most lines	(i) Close interval survey for all buried piping =$50,000 (ii) Remaining life > 15 years for most lines	(i) complete revamp of all piping =$60 million (ii) Remaining life > 15 years for most lines
E. AGE & CONDITION **Age and condition of existing technology. Consider: Relative to similar equipment in current or past use under similar circumstances.**	Existing cathodic protection installed in early 1980's. Corrosion inspection conducted on an annual basis.	N/A	N/A	N/A
F. COMPATIBILITY **Is the technology compatible with existing operations?**	No Change	Yes, but would need more personnel & equipment to perform excavations and inspections.	Yes, could perform surveys but information gained would be difficult to interpret.	Not compatible with existing system due to physical layout.
G. FEASIBILITY **Feasibility of this technology from an engineering and operational view.**	No Change	More excavations are possible, but not around many existing structures. Would increase exposure of piping to accidental damage.	Not feasible with existing piping configurations because have multiple lines bonded together within the same corridor and would be difficult to differentiate between lines and gather data on an individual line.	Not feasible with existing piping configuration, would require all piping be extensively modified or replaced
H. ENVIRONMENTAL IMPACT **Does the use of this technology impact the environmental in a manner that offsets the technology's benefits?**	No Change	Possibly; would increase the odds of accidental damage to piping or other structures due to the number of excavations involved.	No	Yes; if all piping was modified/replaced to allow smart pigging, a tremendous amount of demobilized piping and other materials would then need disposal
BAT SUMMARY: We feel the existing technology utilized by Tesoro is a sufficient survey program for all buried steel piping containing oil for the presence of corrosion is continually being conducted by inspecting all buried, oil containing lines for corrosion whenever they are exposed. In addition, for those lines specifically being cathodically protected, annual cathodic protection surveys are conducted to ensure adequate protection for these lines is being achieved. Smart Pigging has been routinely utilized on the Tesoro Alaska Pipeline. Tesoro has implemented a comprehensive API-570 piping Inspection program as presented to ADEC.				

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PART 5

RESPONSE PLANNING STANDARD

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5.1 RESPONSE PLANNING STANDARDS

Plan response planning standards for the subject facilities are provided below in accordance with 18 AAC 75.425(e)(5). In accordance with 18 AAC 75.420(c):

> "*if more than one prevention measure is used to modify the response planning standard, each subsequent reduction must be applied separately to the response planning standard value that results from application of the previous modification."*

5.1.1 OIL TERMINAL FACILITY - RESPONSE PLANNING STANDARD

The response planning standard volume for an Oil Terminal Facility as defined in Section 18 AAC 75.432 is the volume of the largest tank at the facility, or, in the case of specific natural or manmade conditions that might place the facility at a higher risk of discharge, the combined volume of all potentially affected tanks. There are no known specific natural or man-made conditions at Tesoro Kenai Refinery that provide reason for using the combined tank volume. The largest tank capacity at Tesoro Kenai Refinery is presently calculated at (b) (7)(F) Therefore, the Response Planning Standard for a land-based spill at Kenai Refinery is (b) (7) 3 barrels. Tesoro requests reduction to the Response Planning Standard in accordance with:

- *18 AAC 75.432(d)(1) - alcohol and drug testing of key personnel*: **5%**
- *18 AAC 75.432(d)(4) – a sufficiently impermeable secondary containment area with a dike capable of holding the contents of the largest tank, or all potentially affected tanks in the case of increased risk, and precipitation*: **60%**

The consequent successive cumulative reduction of 62% of the volume of the largest tank (b) (7)(F)) results in a proposed response planning standard for the Kenai Refinery and Nikiski Terminal of (b) (7)(F) . The open-water response planning standard estimate is based upon natural drainage currently available at the Tesoro Kenai Refinery facility. The drainage pattern is generally toward a southwestern direction. The Kenai Spur Highway would act as a natural containment to prevent migration of any failure of secondary containment into Cook Inlet.

Due to the size of the secondary containment, 110% of the largest tank capacity, it is anticipated that up to 100% of a tank failure could be contained within Kenai Refineries property lines.

5.1. 2 TESORO PIPELINE - RESPONSE PLANNING STANDARD - ADEC

There is no response planning standard in the regulations for a clean product pipeline such as TAPL. Consequently the requirements of 18 AAC 75.436 (crude oil pipeline response planning standards) are applied as the closest analog. In accordance with 18 AAC 75.426(b), the response planning standard (RPS) is:

$$RPS = (L_{pl} - H_{pl}) \times C_{pl} + FR_{pl} \times (TD_{pl} + TSD_{pl}), \text{ where}$$

L_{pl}	=	pipeline length between pumping or receiving stations or valves
H_{pl}	=	pipeline hydraulic characteristics due to terrain profile
C_{pl}	=	pipeline capacity in barrels per linear measure
FR_{pl}	=	pipeline flow rate in barrels per time period
TD_{pl}	=	estimated time to detect a spill event; and
TSD_{pl}	=	time needed to shut down the pipeline pump or system

The response planning standard is estimated as follows using the pipeline location between the pump station located at the valves located at Point Possession and Campbell Point as the worst-case section based on length and hydraulic characteristics.

(b) (7)(F)

[redacted]

ion relative to line)

This is a conservative estimate as times would vary; pump shutdown would be almost immediate due to the installation of remote actuated valves. Tesoro requests reductions to the Response Planning Standard in accordance with:

- *18 AAC 75.436(c)(1) - alcohol and drug testing of key personnel:* **5%**
- *18 AAC 75.436(c)(2) – an operation training program with a professional organization or federal certification or licensing of program participants:* **5%**
- *18 AAC 75.436(c)(3) – on line leak detection systems:* **5%**
- *18 AAC 75.436(c)(4)(C) – instrumented in-line cleaning and diagnostic equipment (smart pigs coupled with cathodic-profile inspection at least triennially:* **30%.**

The consequent successive cumulative reduction of 60% of the volume of the pipeline response planning standard of 8,250 bbl results in a proposed response planning standard of 4,950 bbl.

5.1.3 USCG RESPONSE PLANNING STANDARDS

The worst case discharge planning standard from this facility into Cook Inlet is (b) (7)(F) from the Tesoro Alaska Pipeline as identified in Section 2.3.6. USCG regulations under 33 CFR Part 150 published February 5, 1993 provides a method of calculating on-water planning standards based on the worst case discharge for shore-based facilities. The following calculations are provided based on the definitions in this regulation:

(b) (7)(F)

[redacted]

5.1.4 DOT RESPONSE PLANNING STANDARDS

The DOT "Worst Case Discharge" planning standard is based on the calculations provided in 49 CFR 194.105 (b) (1):

(b) (7)(F)

[redacted]

This is no record of a significant spill exceeding the above RPS from the Tesoro Alaska Pipeline that Tesoro has record of. 49 CFR 194.105 (b) (2) was not applicable.

49 CFR 194.105 (b) (3). There are no breakout tanks in the Tesoro Alaska Pipeline system. There are commingle tanks at the Anchorage Terminals that are located within a sufficiently impermeable Secondary Containment system.

5.1.5 EPA RESPONSE PLANNING STANDARDS

The EPA worst case discharge standard is the volume of the largest tank at the facility. The (b) (7)(F) [redacted] of Vacuum Tower Bottoms (VTB) which is Group 4, Persistent Oil.

Based on OPA 90 criteria, response equipment must be available assuming that

10% of the worst case volume naturally disperses
50% of the worst case volume remains floating
70% of the worst case volume impacts the shoreline.

Based on these assumptions, the following volumes are used to calculate the initial planning standards:

(b) (7)(F)

[redacted]

The initial EPA planning standards for this terminal can then be modified by utilizing the following EPA calculation factors:

Emulsification Factor: 1.4

Tier 1 Factor: 0.15 (Response resources to arrive in 12 hrs.)
Tier 2 Factor: 0.25 (Response resources to arrive in 36 hrs.)
Tier 3 Factor: 0.40 (Response resources to arrive in 60 hrs.)

Using these factors the final calculations to determine oil recovery rates become:

(b) (7)(F)

[redacted]

Maximum planning standards have been established by the EPA that limits the amount of spill recovery equipment which must be under contract for a worst case discharge. These upper limits for equipment which must be under contract for the Tesoro Kenai Refinery are:

Tier 1: 10,000 bbls/day
Tier 2: 20,000 bbls/day
Tier 3: 40,000 bbls/day.

The response capabilities of CISPRI, which are summarized in Section 1.6.2, are adequate to meet these EPA planning requirements. These calculations have been included in this Plan because they are required by EPA regulations. Tesoro does not believe that any oil from a catastrophic failure of Tank 25 would reach Cook Inlet. Tesoro believes that naturally occurring basins and barriers located between the refinery and Cook Inlet combined with the high viscosity of #6 Fuel Oil would control the spread of this oil.

Oil could be spilled from Tank 25 directly into Cook Inlet through pipeline connections by a complex series of operator errors or carefully planned vandalism. It would take approximately 17 hours to pump the contents of Tank 25 into Cook Inlet at a rate of 25,000 bbls/hr.

EPA regulations further require that recovery capability be identified, but not under contract, for the difference between the calculated worst case discharge planning standards and the maximum planning standards established in Tier 1, 2, and 3. These standards for the Tesoro Kenai Refinery are:

Tier 1 (44,625) - (10,000) = 34,625 bbls/day
Tier 2 (74,375) - (20,000) = 54,375 bbls/day
Tier 3 (119,000) - (40,000) = 79,000 bbls/day.

Tesoro would seek additional equipment from Alyeska (SERVS), Alaska Clean Seas, Southeast Alaska Prevention and Response, and the oil spill co-ops in Washington and California to meet these planning standards.

(b) (7)(F)

[redacted]

APPENDIX A

RESPONSE CONTRACT

Note: This is an evergreen contract that does not require annual renewal

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RESPONSE ACTION CONTRACT

by and between

COOK INLET SPILL PREVENTION AND RESPONSE, INC.

AND

TESORO MARITIME COMPANY

This Response Action Contract is entered into this 12th day of December, 2012, by and between Cook Inlet Spill Prevention and Response, Incorporated ("CISPRI"), a non-profit corporation organized and existing under the laws of the State of Alaska, and Tesoro Maritime Company, Tesoro Refining and Marketing Company LLC. and Tesoro Logistics Operations, LLC. ("User"), a Texas corporation and Cook Inlet-based subsidiaries.

WHEREAS, User may request from time to time the use of response services and equipment provided by CISPRI as a response action contractor in the event of a release or threatened release ("release") of crude oil or refined petroleum products ("liquid hydrocarbons"), or for a drill conducted by any authorized governmental agency ("drill");

NOW, THEREFORE, in consideration of the premises, and in further consideration of the promises below, the parties agree as follows:

1. Term of Agreement. This agreement is effective the date first written above.

2. Payment Due Dates. All invoices rendered by CISPRI to User shall be due and payable not more than ten days after the date the invoice is transmitted to User, and amounts due shall bear interest at the rate of one percent per month or portion thereof from the due date until paid. CISPRI may decline to provide services to User at any time that payments are past due. Further, CISPRI may request and receive from User adequate security for payments, such as a cash deposit or an irrevocable letter of credit in amount equal to the anticipated costs for one or more months of services to be rendered, or other security satisfactory to CISPRI. In the event such security is not forthcoming immediately upon request, CISPRI may decline to provide services for User under this agreement, and may cease services immediately upon notice to User.

In the event CISPRI and User cannot agree on any charge or charges made by CISPRI to User under this Response Action Contract, User may hold back the disputed portion of such charges, only, pending resolution of the dispute, provided that in the event User holds back more than ten percent of any billing on account of disputed charges, CISPRI may elect to terminate this agreement immediately upon notice to User.

3. Work and Services to be Provided. In the event of a release or a drill, User may notify CISPRI of the fact of such release or drill and request that CISPRI provide response services and equipment in connection with the same. In that event, CISPRI is obligated to provide such response services and equipment to User under the terms and conditions of this response action contract.

User will compensate CISPRI for such response services and equipment according to the schedule attached hereto as Schedule "B". CISPRI may, upon 30 days' written notice to User, amend the contents of Schedule "B", including rates to be charged by CISPRI, provided that CISPRI shall use due diligence to keep available the response services and equipment

PHMSA, 000009025

listed for CISPRI in User's contingency plans covering the CISPRI Area of Interest. CISPRI shall use due diligence to maintain such equipment in a state of readiness, in accordance with industry standards.

CISPRI may condition the use of any and all equipment upon the utilization of CISPRI, or CISPRI-approved personnel to operate the same. All response services and equipment provided to User by CISPRI shall be under User's request and under User's direction. As soon as practicable after CISPRI commences providing response services and equipment to User, CISPRI and User shall agree upon the duration, scope and nature of the response action to be provided by CISPRI, and such agreement shall be reflected on a completed copy of Schedule "A". CISPRI shall notify User immediately if CISPRI is materially unable to carry out response action specified in this response action contract or in User's contingency plan.

4. Controlling Documents. User shall not direct CISPRI, nor shall CISPRI be under any obligation, to undertake response actions that are not in strict compliance with the terms and conditions of:

4.1. this response action contract,

4.2. any applicable remedial action plan approved by the Alaska Department of Environmental Conservation or other authority having jurisdiction over the applicable remedial action plan,

4.3. any applicable contingency plan approved by the Alaska Department of Environmental Conservation or other authority having jurisdiction over the applicable contingency plan, and

4.4. any applicable order, direction or requirement by a State or Federal agency asserting jurisdiction over the release.

5. Spill Notification. User shall notify the Alaska Department of Environmental Conservation (or other authority required by law) of any release of liquid hydrocarbons. User shall confirm such notification to CISPRI.

6. User Warranty. User warrants that all directions and mandates given by User to CISPRI in connection with any release of liquid hydrocarbons will be consistent with the plans and orders described in Paragraph 3 , above. In the event CISPRI believes that a direction or mandate given by User to CISPRI is not consistent with such plans and orders, CISPRI may suspend or discontinue all or any part of the response action being provided, or to be provided, by CISPRI under this agreement.

7. Indemnification.

7.1. Special Recitals. User acknowledges that:

7.1.1. Neither this agreement nor any other instrument requires User to use the services of CISPRI or its contractor(s), or to utilize CISPRI for response action in connection with any release;

7.1.2. User is solely responsible for all planning, preparation, equipment acquisition, contracting and operations in connection with response action necessitated by a release originating from User's equipment or facilities;

7.1.3. For the purposes of any dispute related to the enforceability of these indemnification provisions, User waives any claim that:

7.1.3.1. it did not have adequate opportunity to participate in decisions made by or on behalf of CISPRI with regard to planning, equipment and materials acquisition and maintenance, operations, and other functions;

7.1.3.2. It did not have adequate opportunity to inspect the

equipment, materials and supplies that have been acquired by CISPRI and to evaluate their condition and usefulness to User in the event of a release;

7.1.3.3. it did not have adequate opportunity to evaluate the ability of contractor(s) engaged by CISPRI to be of assistance to User in the event of a release;

7.1.4. Any and all equipment, supplies, materials and services provided by CISPRI to User are provided "as is, where is," and neither CISPRI nor any member of CISPRI makes any representation as to the availability, merchantability or fitness for any particular purpose of the same.

7.1.5. If these indemnification provisions were not included in this agreement, CISPRI would be unwilling to enter into this agreement.

7.2. Indemnification. It is the intent of the parties that User shall assume all indemnification responsibilities provided herein. User hereby agrees to indemnify, defend, and hold harmless CISPRI, its members, directors, officers, managers, executive committee, contractors and employees, together with all officers, directors, contractors, employees and affiliates of each of the members of CISPRI, and each of them, from and against any and all claims, demands, causes of action, damages, costs, fees (including reasonable attorneys' fees), expenses, penalties, losses or liabilities, in law or in equity, of every kind and nature whatsoever, arising out of or in any way connected with:

7.2.1. Any and all actions, or failures to act, on the part of User, its contractors, or CISPRI, its members, staff and contractor(s), carried on under or in connection with response action requested or received by User, including, without limitation, the activities of members of CISPRI as participants in business entities providing vessels, equipment and materials to CISPRI;

7.2.2. Any and all penalties, fines or other liability imposed on CISPRI on account of the violation of any law or regulation, compliance with which is left by law to User, if such penalties, fines or other liability arise out of or are in any way connected with response action requested or received by User; and

7.2.3. Any and all liens, claims, assessments, levies and stop notices of labor, and any other liens or claims on account of overdue or other deficient handling of charges for labor or materials, if such liens, claims, assessments, levies, and stop notices of labor, or other liens or claims arise out of or are in any way connected with response action requested or received by User.

7.3. Extent of Indemnification. The indemnification obligations of User are fully effective to the extent allowed by law even if such claims, demands, causes of action, damages, costs, expenses, penalties, losses or liabilities were caused or contributed to, in whole or in part, by:

7.3.1. The active or passive negligence or other fault (including gross negligence) of CISPRI or its members, or their staff, contractor(s), agents, representatives or employees;

7.3.2. Any equipment or materials supplied to User by CISPRI, howsoever caused, whether by failure, malfunction or defect, latent or otherwise, in said equipment or materials, or by the maintenance thereof; or

7.3.3. The liability without fault of CISPRI or its members, or their contractor(s), agents, representatives or employees.

The obligations of indemnification are not limited, restricted, or in any way affected by the amount of insurance carried by User, or by any terms or conditions of any insurance policies. The obligations of indemnification shall survive the termination of this agreement, the dissolution of CISPRI and the withdrawal of any member from CISPRI.

7.4. Indemnification Duties. User assumes, without limitation, the following

obligations:

7.4.1. At its own cost, expense and risk, to accept and conduct the defense of any and all suits, actions and other legal proceedings that may be brought or instituted against the indemnitees, or any of them, and prosecute any appeals;

7.4.2. To pay and satisfy any and all settlements, final judgments and decrees that may be paid by, or enforceable against, the indemnitees, or any of them;

7.4.3. To reimburse the indemnitees, and each of them, for any and all reasonable attorneys' fees, costs and expenses incurred by the indemnitees, or any of them, in order to enforce the provisions of this agreement;

7.4.4. To reimburse the indemnitees, and each of them, for any and all reasonable attorneys' fees, costs and expenses incurred by the indemnitees, or any of them, prior to the assumption of indemnification responsibilities by User in connection with any and all suits, actions and other legal proceedings described above; and

7.4.5. After User has assumed such responsibility, any and all indemnitees are entitled to participate at its or their sole cost and expense in the defense of any suit, action, or other legal proceeding without affecting the indemnity obligations of User under this agreement.

7.5. Administration.

7.5.1. In requesting that CISPRI furnish response action, and in utilizing and receiving the benefits of response action, User reaffirms thereby its commitment to perform its obligations as provided herein.

7.5.2. CISPRI may, if it so elects, pay and discharge any liens or overdue charges for labor, equipment, or materials incurred by User as may be reasonably necessary to protect the interests of CISPRI. Any and all such payments shall be for the account of User.

7.5.3. The provision of response action by CISPRI to User does not constitute or affect any construction contract under AS 45.45.900.

8. Insurance. At all times during the term of this agreement, User shall carry and maintain in force with carriers satisfactory to CISPRI, Workers' Compensation (including adjustments for marine service) and Employers' Liability Insurance in accordance with the law that may be applicable to its employees, and Comprehensive General Liability and Automobile Liability Insurance covering injury or death of persons and property damage in an amount not less than ten million dollars. User shall provide certificates of insurance for each of these policies at the request of CISPRI. No such insurance will be materially changed during the term of this agreement without at least thirty days' written notice to CISPRI. Nothing contained in this clause shall limit or waive User's legal or contractual responsibilities to CISPRI or others.

8.1. User agrees to have its insurers add CISPRI as an additional insured or loss payee under any policies of insurance applicable to this agreement, and to obtain a waiver of its insurers' rights of subrogation against the indemnitees.

8.2. In the event User elects to self-insure, CISPRI reserves the right to approve such self-insurance and to request and receive such information as CISPRI deems necessary to evaluate the self-insurance provided by User. In any case, if User elects to self-insure, User shall treat CISPRI as an additional insured or loss payee and hereby waives any rights of subrogation against CISPRI and CISPRI's members and their employees.

9. Accounting and Audit.

9.1. CISPRI agrees that all financial settlements, billings, and reports rendered to User, as provided for in this agreement, and/or any amendments to it, will reflect properly the

facts about all activities and transactions handled for the account of User, which data may be relied upon as being complete and accurate in any further recording and reporting made by User for any purpose. A 15% administrative fee will be applied to all costs and reflected on all invoices to User.

9.2. User's duly authorized representatives shall have access during normal business hours and upon reasonable notice during the term of this agreement to CISPRI's books, records, pricing manuals, receipts, vouchers, and similar documents for the purpose of verifying invoice prices or other charges billed in connection with this contract. Such representatives shall have the right to reproduce any of the aforesaid documents. CISPRI agrees to preserve all such documents for a period of two years after completion of any services under this contract as described in any completed Schedule "A", and to make all such documents available to User's representatives during such period. User shall notify CISPRI of any erroneous billings made by or paid to CISPRI, and CISPRI shall promptly make appropriate adjustments and reimburse User the amount of any agreed overpayment.

10. Confidentiality. CISPRI and User agree that they and their employees will treat as proprietary all information and materials developed or acquired in the course of its services for User, including business, operational, mechanical, technical, and financial data and reports. CISPRI or User will disclose such information and materials only to those of its employees who must receive it for the efficient performance of this agreement. The provisions of this paragraph shall remain binding on the parties and shall survive the completion or termination of this agreement.

11. Independent Contractor Status.

11.1. The parties intend that an independent contractor relationship shall be created by this agreement. Each party agrees to take all reasonable actions so that the public and all governmental agencies are given no reasonable basis to believe that the parties are engaged in a single business, partnership or other combination.

11.2. CISPRI shall pay all applicable taxes imposed by reason of the work to be performed by CISPRI hereunder (except for sales and use taxes, which shall be the sole responsibility of User) and any and all employment-related taxes. CISPRI shall timely file all reports and information required by law to be filed by CISPRI and covering the time CISPRI is engaged in performance of this contract.

11.3. CISPRI shall own exclusively the rights to any and all inventions, methods, and other intellectual property that it develops in the course of performance of work and services under this agreement.

12. Notices. All notices, requests and/or other communications provided for or permitted to be given by any party hereunder shall be made in writing and delivered in person or by mail, facsimile, telegraph or telex, properly addressed to each party to whom given, with postage and charges prepaid. Notices by facsimile, telegraph or telex shall be promptly confirmed by mail. A notice shall be deemed given only when received by the party to whom such notice is directed.

Notices shall be sent to the following addresses:
If to CISPRI:
General Manager
CISPRI
P. O. Box 7314
Nikiski, Alaska 99635
Phone: 907+776-5129

PHMSA, 000009029

Fax: 907+776-2190

If to User:
Tesoro Maritime Company
19100 Ridgewood Parkway
San Antonio, Texas 78258

13. Termination. Either party may terminate this agreement upon thirty days written notice. Upon termination, CISPRI will be paid according to this contract's compensation terms for any and all services CISPRI performs up to the date of termination and in carrying out User's termination instructions. Termination shall not affect the rights and responsibilities of the parties under this agreement with regard to insurance, indemnification, audit, records maintenance, confidentiality, choice of law, or venue.

14. Miscellaneous Provisions.

14.1. Reference to CISPRI in Contingency Plans. User [xx] is [ ] is not a member in good standing of CISPRI. Only members in good standing of CISPRI shall be entitled to make reference to CISPRI, its equipment or its services in any contingency plan filed with any governmental agency, as being obligated to provide response action to User. CISPRI is not, and shall not under any circumstances be referred to by User as User's primary response action contractor, unless User is a member of CISPRI in good standing. CISPRI shall be entitled to provide information to any governmental agency regarding User's relationship to CISPRI.

14.2. CISPRI is, and will remain certified as, an "oil spill primary response action contractor" under Alaska law, and an "oil spill removal organization under the Oil Pollution Act of 1990.

14.3. Assignment. No rights under this Response Action Contract shall be assigned or transferred without written consent of CISPRI and User.

14.4. No Third Party Beneficiary. No governmental agency or private party, including any subcontractor, is intended to be a third party beneficiary of any rights or obligations under this agreement.

14.5. Choice of Law; Venue. This agreement shall be construed under the laws of the State of Alaska. The parties agree that all matters involving interpretation or enforcement of this agreement will be referred to the United States District Court for the District of Alaska, in Anchorage, Alaska, or, if and only if the United States District Court does not have jurisdiction over any such matter, to any other court of competent jurisdiction in Anchorage, Alaska.

IN WITNESS WHEREOF, the parties have signed this agreement, effective the date first written above.

CISPRI	User
Cook Inlet Spill Prevention & Response, Incorporated	Tesoro Maritime Company
By:	By: *Eric Haugstad*
Its: General Manager	Its: _____

SCHEDULE "A"

DATE: _____

1. LOCATION OF RELEASE:

.

2. SUBSTANCE(S) RELEASED AND QUANTITY(IES), IF KNOWN:

.

3. POTENTIALLY RESPONSIBLE PARTY(IES), IF KNOWN:

.

4. EQUIPMENT, MATERIALS AND SERVICES DESIRED: (attach additional sheets, if necessary)

.

5. NAME, ADDRESS, TELEPHONE ETC. OF USER CONTACT:

.

AGREED AND ACCEPTED: _____

STATEMENT OF CONTRACTUAL TERMS

AS REQUIRED UNDER AS 46.04.30, as 46.04.035 AND 18 AAC 75.445(l)(1) in fulfillment of a requirement for registration of primary response action contractors and for approval of an Oil Discharge Prevention and Contingency Plan.

Plan Titles: Kenai Pipeline Company Oil Discharge Prevention and Contingency Plan (TRM); Cook Inlet Vessel Oil Discharge Prevention and Contingency Plan (TRM); Tesoro Alaska Pipeline Oil Discharge Prevention and Contingency Plan (TRM); Tesoro Anchorage Terminals 1 & 2 Oil Discharge Prevention and Contingency Plan (TLLP)

Plan Holders: Tesoro Refining & Marketing Company LLC (TRM); Tesoro Logistics Limited Partnership (TLLP)

This statement is a certification to the Alaska Department of Environmental Conservation summarizing the contract between Tesoro Maritime Company and Cook Inlet-based subsidiaries the oil discharge prevention and contingency plan holder (hereinafter "PLAN HOLDERS"), and Cook Inlet Spill Prevention and Response, Inc., the oil spill primary response action contractor (hereinafter "CONTRACTOR"), executed on 12 December, 2012, and the original of which is locate of the offices of Tesoro Maritime Company as evidence of the PLAN HOLDERS access to the containment, control and / or cleanup resources required under standards at AS46.04.030 and 18AAC75.400 – 18AAC75.495. The PLAN HOLDER and the CONTRACTOR attest to the provisions of this written contract clearly obligate the CONTRACTOR to:

A. Provide the response services and equipment listed for the CONTRACTOR in the contingency plan;
B. Response if a discharge occurs;
C. Notify the PLAN HOLDERS immediately if the CONTRACTOR cannot carry out the response actions specified in this contract or the contingency plan;
D. Give written notice at least 30 days before terminating this contract with the PLAN HOLDERS;
E. Respond to a Department –conducted exercise required of the PLAN HOLDERS; and

PHMSA, 000009033

F. Continuously maintain in a state of readiness, in accordance with industry standards, the equipment and other spill response resources to be provided by the CONTRACTOR under the contingency plan.

I hereby certify that, as representative of the PLAN HOLDER, I have the authority to legally bind the PLAN HOLDER in this matter. I am aware that false statements, representations, or certifications may be punishable as civil or criminal violations of law.

Eric Haugstad December 18, 2012

Signature Date

Title: Secretary

For: Tesoro Maritime Company, Tesoro Refining and Marketing Company LLC, Tesoro Logistics Operations LLC

PLAN HOLDER

I hereby certify that as representative of the CONTRACTOR, I have the authority to legally bind the CONTRACTOR in this matter. I am aware that false statements, representations, or certifications may be punishable as civil or criminal violations of law.

December 12, 2012

Signature Date

Title: General Manager

For: Cook Inlet Spill Prevention and Response, Inc.

CONTRACTOR

APPENDIX B

DRAWINGS

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TESORO ALASKA COMPANY

FACILITY DRAWINGS

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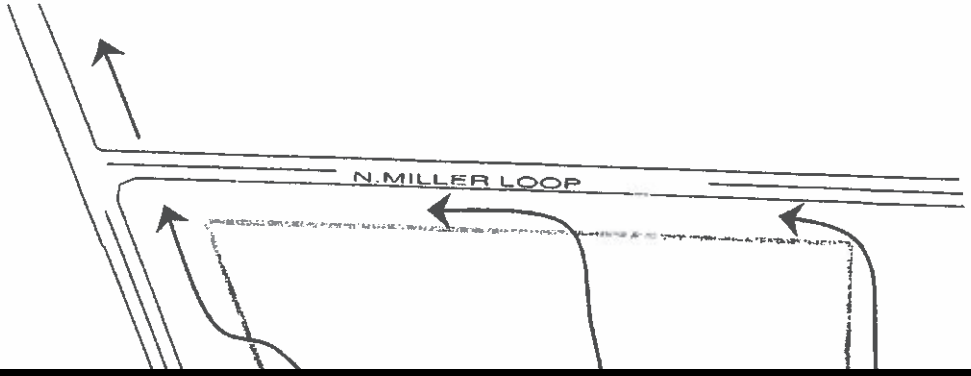

(b) (7)(F)

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(b) (7)(F)

[redacted]

DWG. NO.

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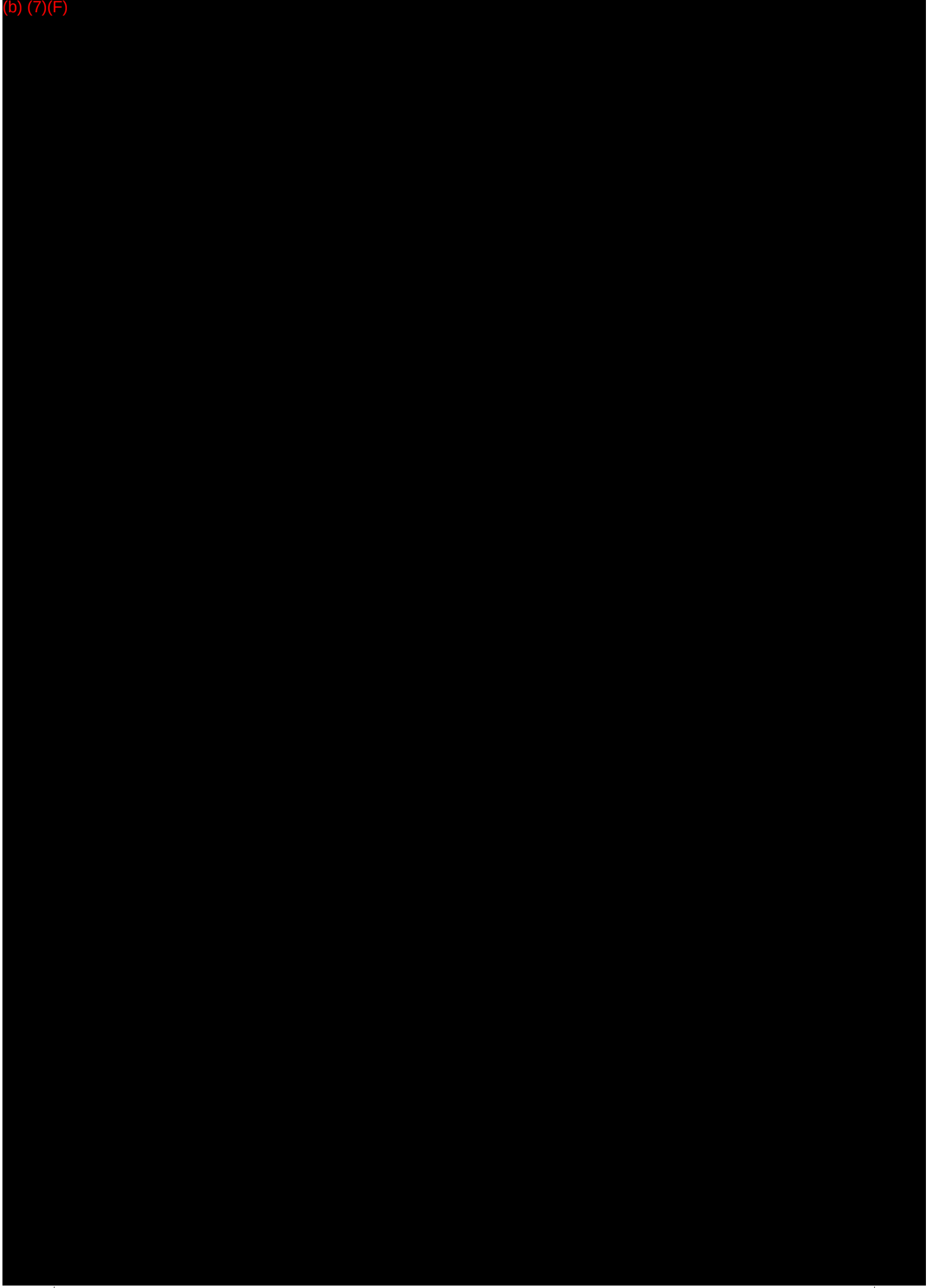
PHMSA, 00000942

(b) (7)(F)



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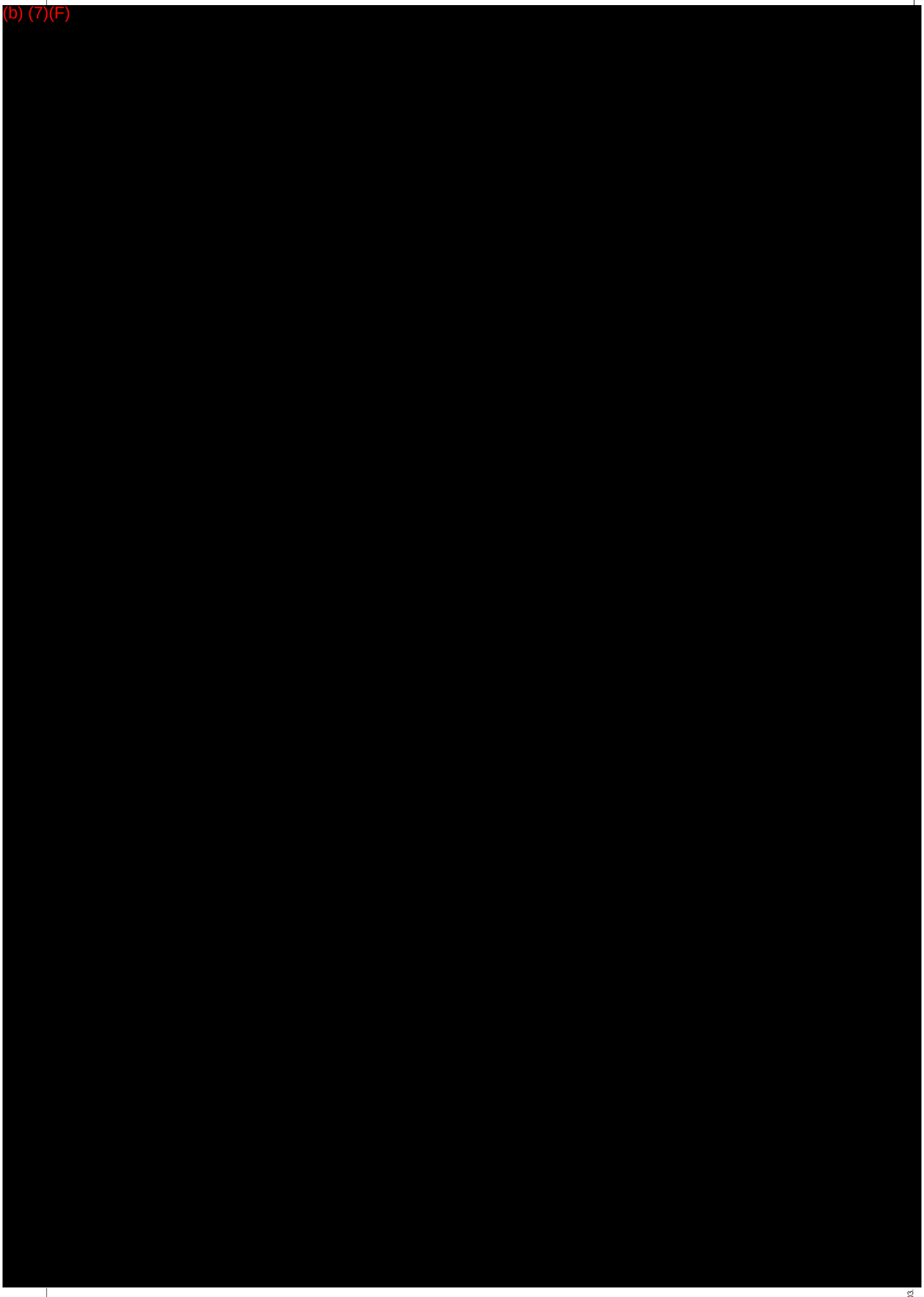
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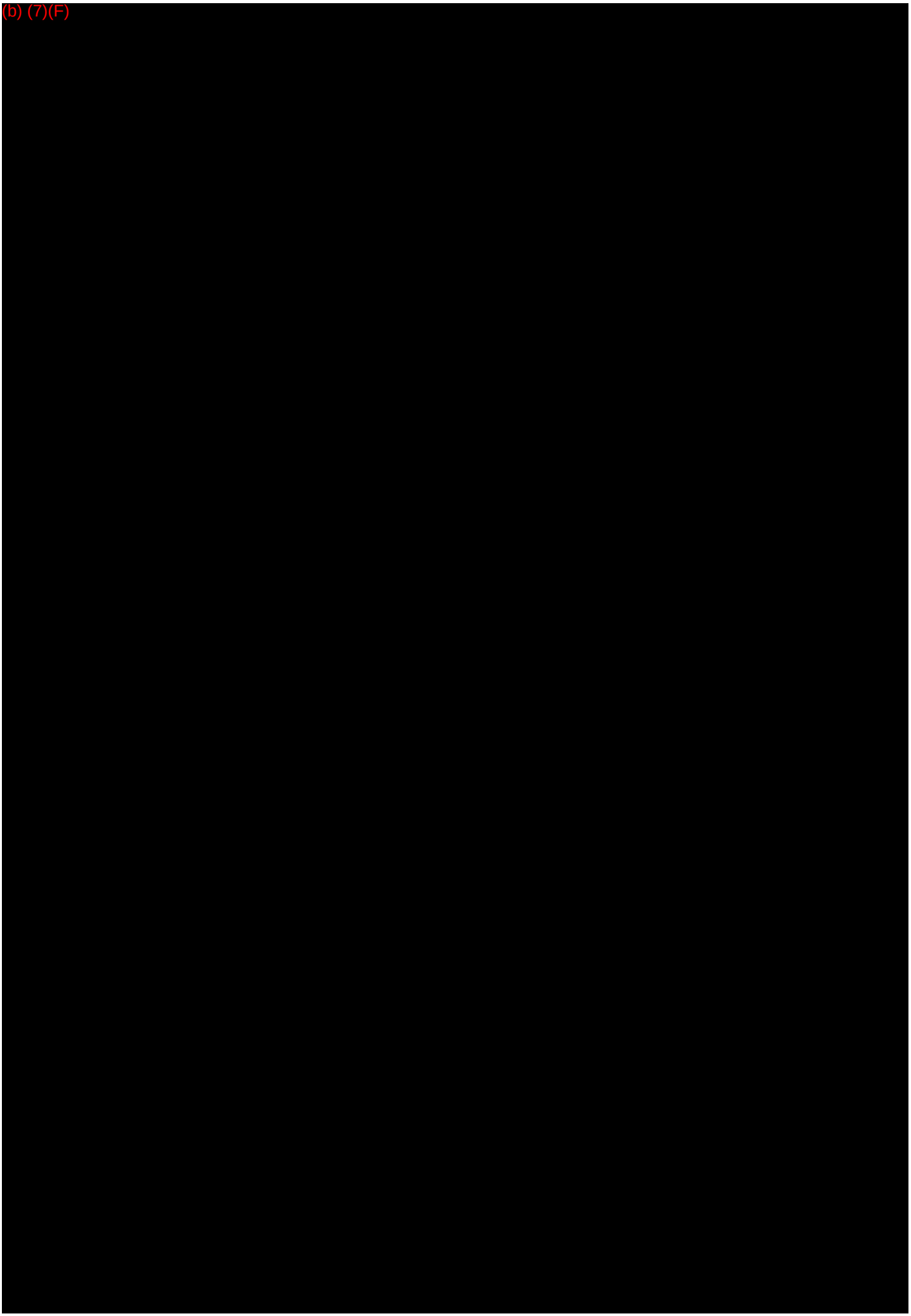
(b) (7)(F)



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TESORO ALASKA PIPELINE

PIPELINE DRAWINGS

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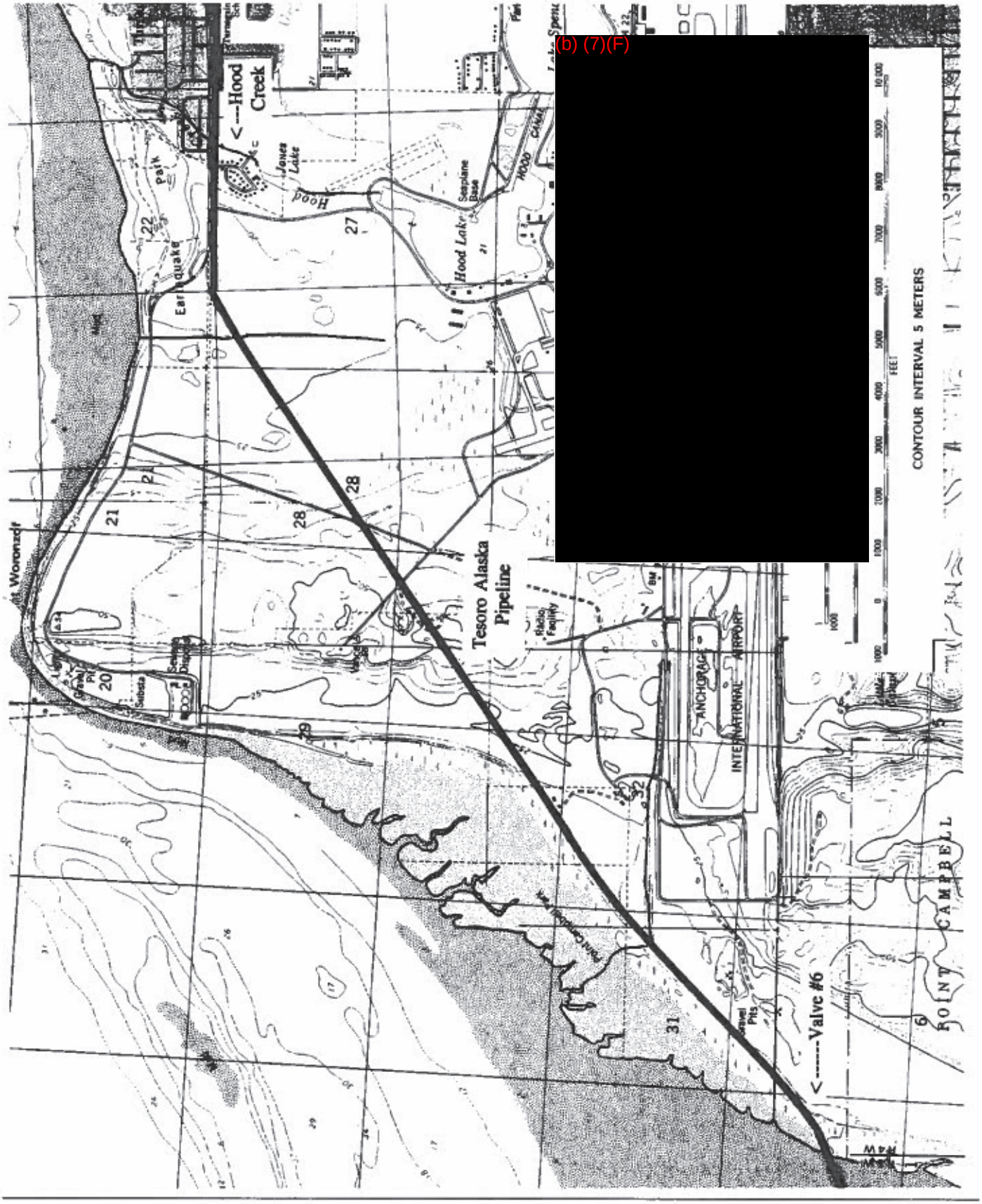
TESORO ALASKA PIPELINE ROUTE MAP # 3



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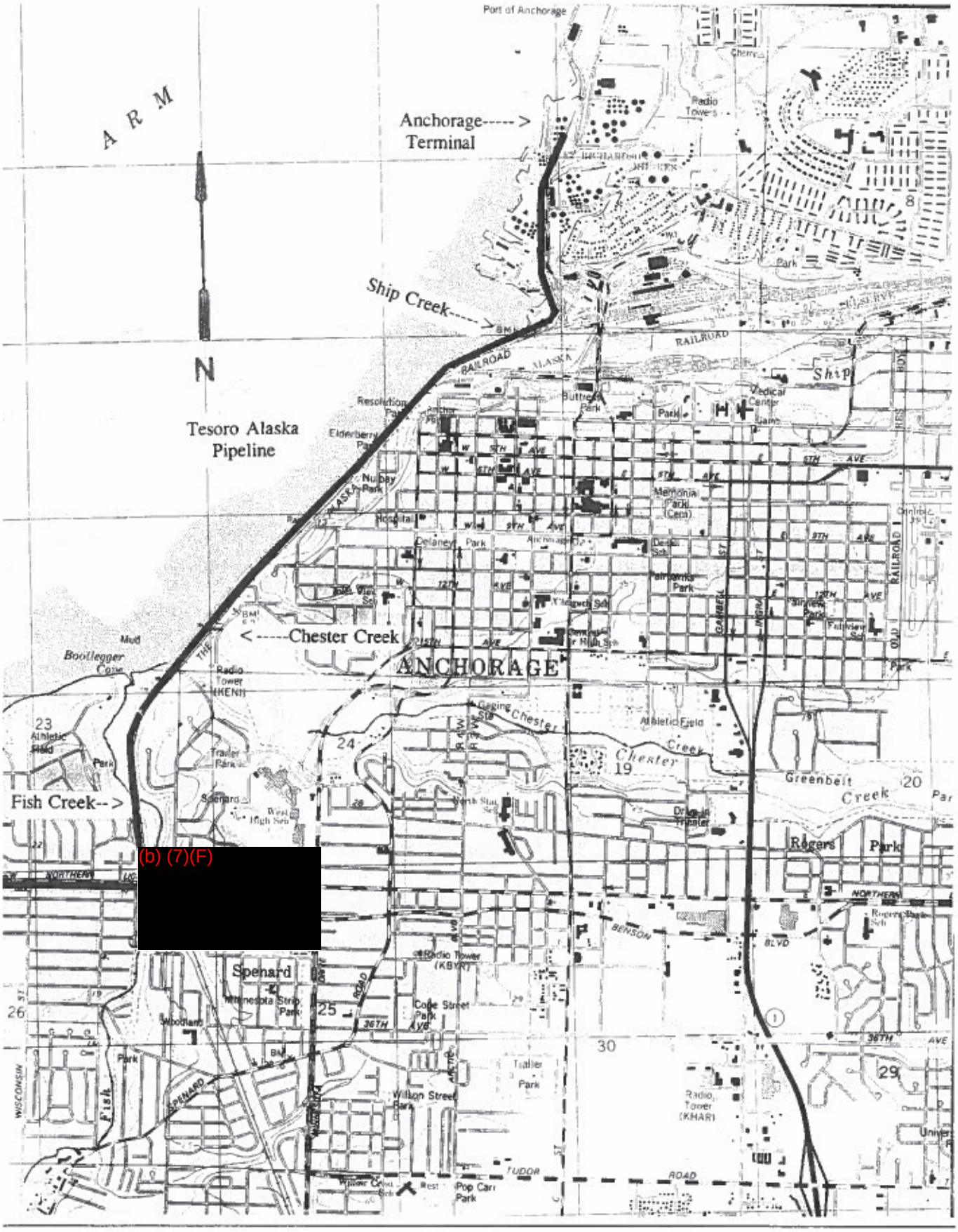
TESORO ALASKA PIPELINE ROUTE MAP # 4



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OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE

SUMMARY

T07N R12W

21

22

15

14

KENAI SPUR HWY

CORNWELL CT

ROSS POINT CT

WINDY RD

ALEXANDER RD

FREDA DR

ROUNDABOUT ST

PHMSA 00000057

Profile assuming Sea Level equals 0 ft

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	Unknown	Unkno...	10	10.75	0.375	A	Extruded Polyethylene	Extruded Polyethylene
2	X52	52000	10	10.75	0.25	B	Tapecoat RD-6 & Perforated Stress Shield,Amec Pipe	Extruded Polyethylene
3	X52	52000	10	10.75	0.219			

Summary

LI Run 01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 0 TO: 7926

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	TAPL 1 OF 34

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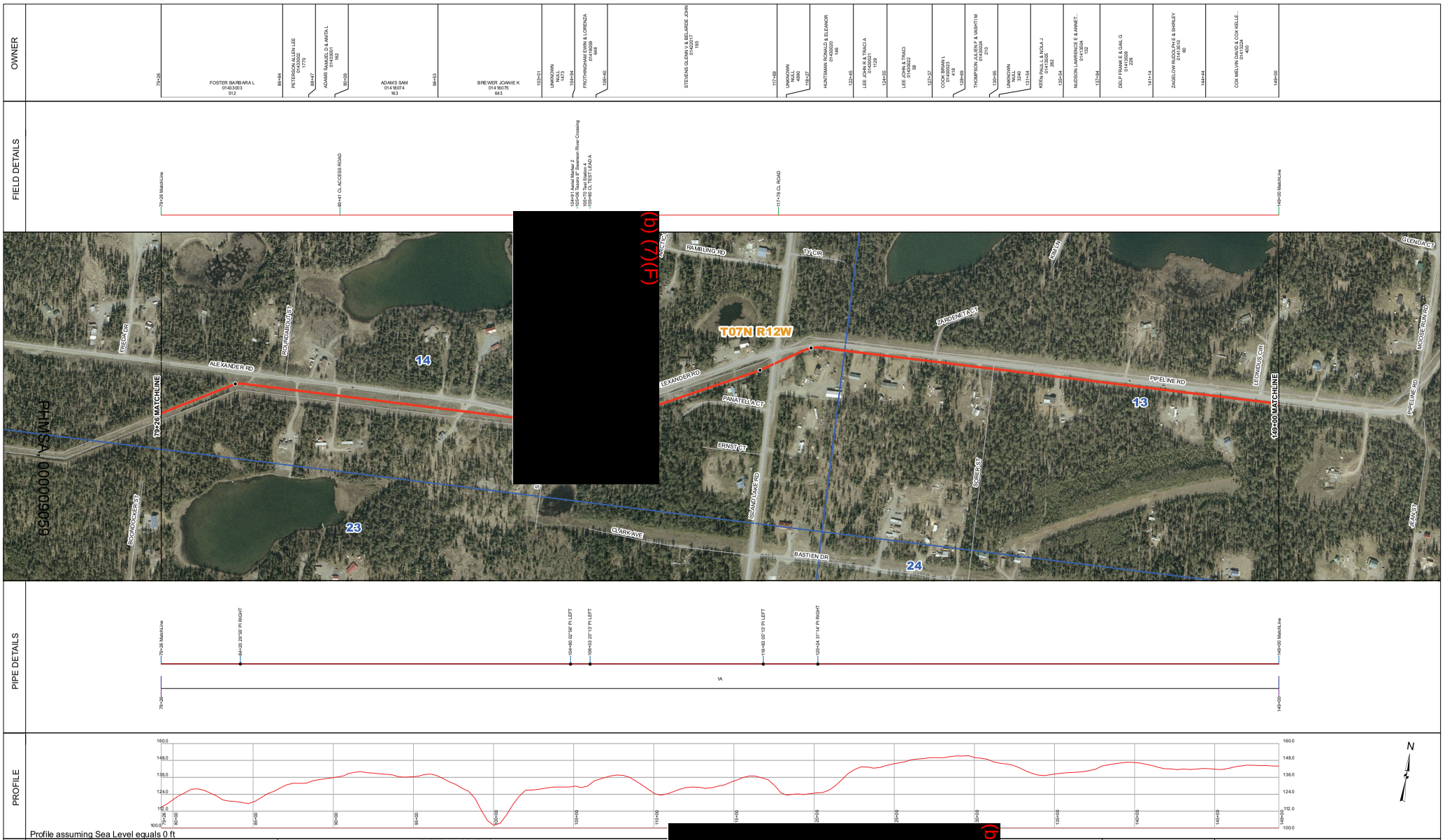
OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE



[redacted]

[redacted]

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X52	52000	10	10.75	0.219	A	Extruded Polyethylene	Extruded Polyethylen

[redacted]

Summary

I Run 01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 7926 TO: 14900

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	**TAPL 2 OF 34**

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OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X52	52000	10	10.75	0.219

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary

ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 14900 TO: 22317

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	TAPL 3 OF 34

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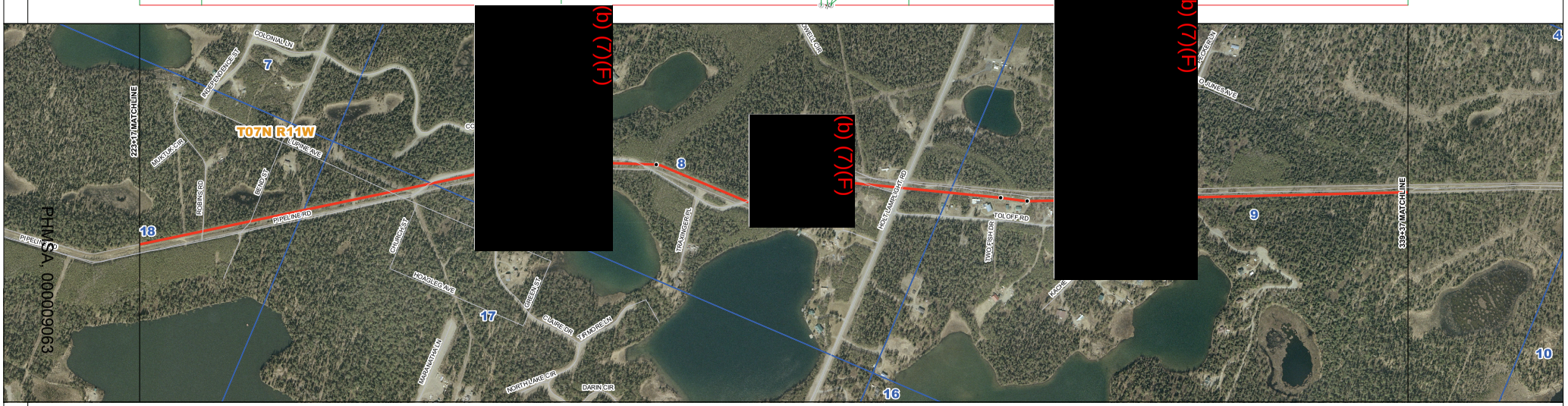
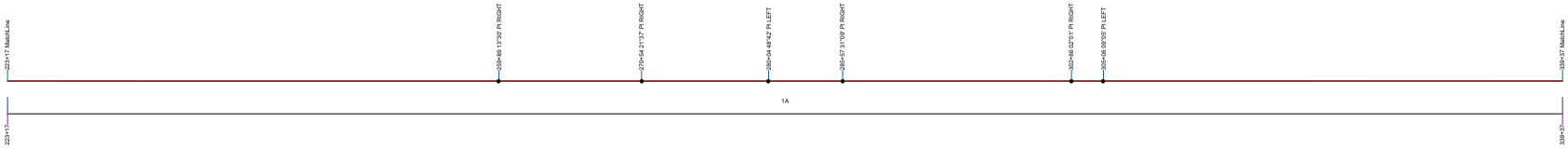
OWNER

FIELD DETAILS



PIPE DETAILS



PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING			Summary	
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE		
1	X52	52000	10	10.75	0.219	A	Extruded Polyethylene	Extruded Polyethylen	ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 22317 TO: 33937

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	TAPL 4 OF 34

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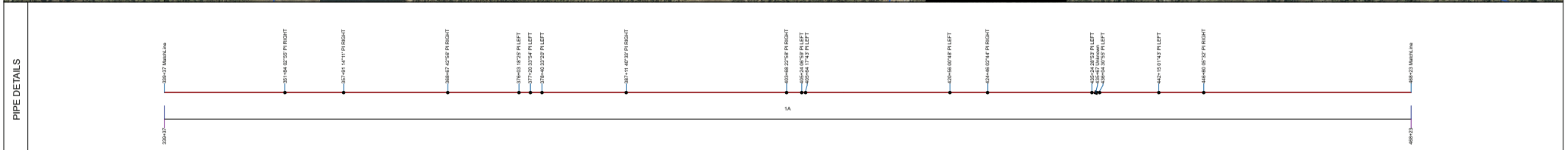
OWNER

FIELD DETAILS

PIPE DETAILS



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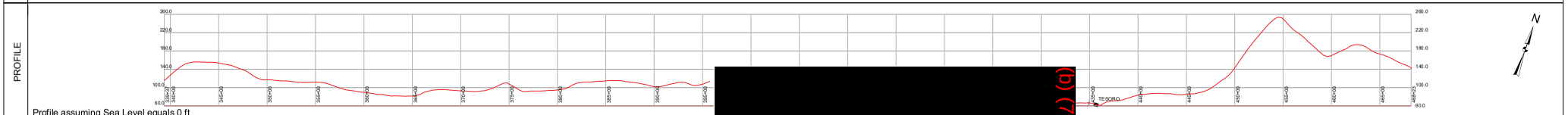

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X52	52000	10	10.75	0.219

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

Summary

ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 33937 TO: 46823

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 5 OF 34**

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OWNER

COOK INLET REGION INC 01308048 203

COOK INLET REGION INC 01304265 198

COOK INLET REGION INC 01305674 766

RILEY PHILLIP F JR 01304270 317

ERNST REBECCA J AND/OR ELLIS ... 01304289 170

COOK INLET REGION INC 01304201 270

COOK INLET REGION INC 01304139 216

COOK INLET REGION INC 01304144 237

COOK INLET REGION INC 01304139 94

FIELD DETAILS

469+23 Match Line

538+20 CL CREEK

541+14 CL TEST LEAD Ct 541+42 Test Station 13

591+19 Match Line

PHMSA-00000967

PIPE DETAILS

469+23 Match Line

474+58 94° 25' R RIGHT

479+58 07° 07' R RIGHT

484+43 05° 02' R RIGHT

486+42 04° 28' R RIGHT

488+42 10° 07' R LEFT

489+99 13° 04' R LEFT

493+48 17° 05' R RIGHT

496+28 07° 29' R RIGHT

499+48 04° 29' R LEFT

502+25 02° 02' R RIGHT

508+40 16° 08' R LEFT

514+35 02° 24' R RIGHT

522+33 01° 42' R LEFT

534+58 Begin Sleeve 534+98 End Sleeve

539+31 02° 27' R RIGHT

550+30 01° 19' R LEFT

557+78 Begin Sleeve 557+98 End Sleeve

544+14 01° 08' R RIGHT

545+94 Begin Sleeve 546+66 End Sleeve

550+31 02° 25' R RIGHT

553+11 03° 25' R RIGHT

558+38 Begin Sleeve 558+98 End Sleeve

564+55 13° 15' R LEFT

567+67 13° 58' R RIGHT

586+10 01° 58' R LEFT

589+94 13° 57' R LEFT

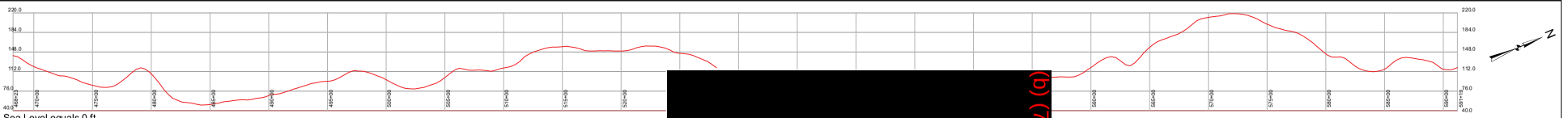
591+19 Match Line

1A

469+23

591+19

PROFILE



Profile assuming Sea Level equals 0 ft

(b) (7)(F)

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X52	52000	10	10.75	0.219

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

Summary

Run 01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 46823 TO: 59119

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	TAPL 6 OF 34

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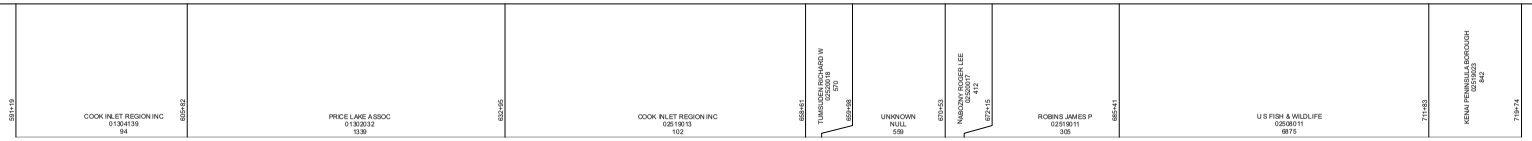
OWNER



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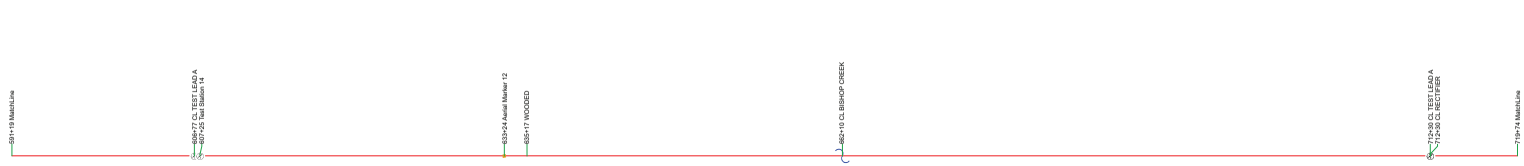
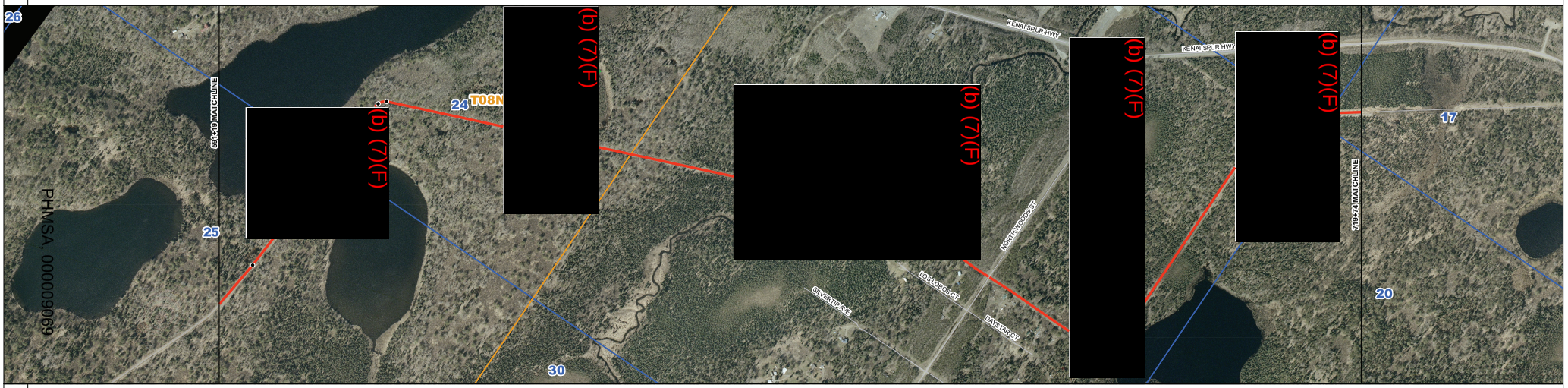
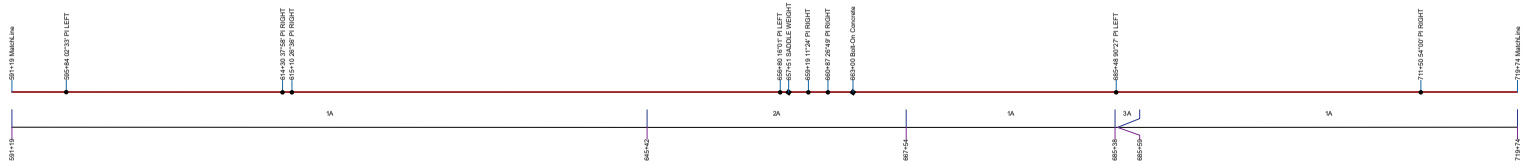




PIPE DETAILS



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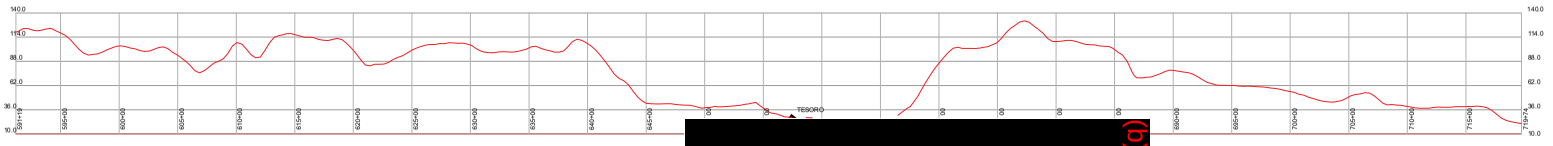

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X52	52000	10	10.75	0.219
2	X60	60000	10	10.75	0.188
3	X52	52000	10	10.75	0.25

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary

ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 59119 TO: 71974

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 7 OF 34**

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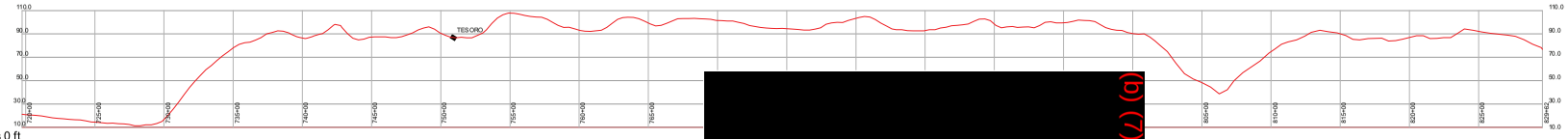
OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE



Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X52	52000	10	10.75	0.219	A	Extruded Polyethylene	Extruded Polyethylen
2	X60	52000	10	10.75	0.188			

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 71974 TO: 82962

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 8 OF 34**

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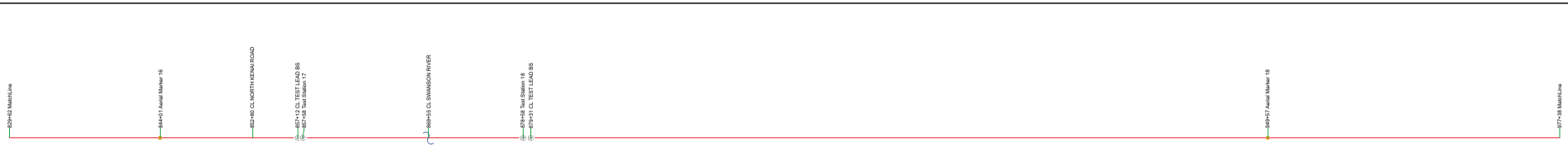
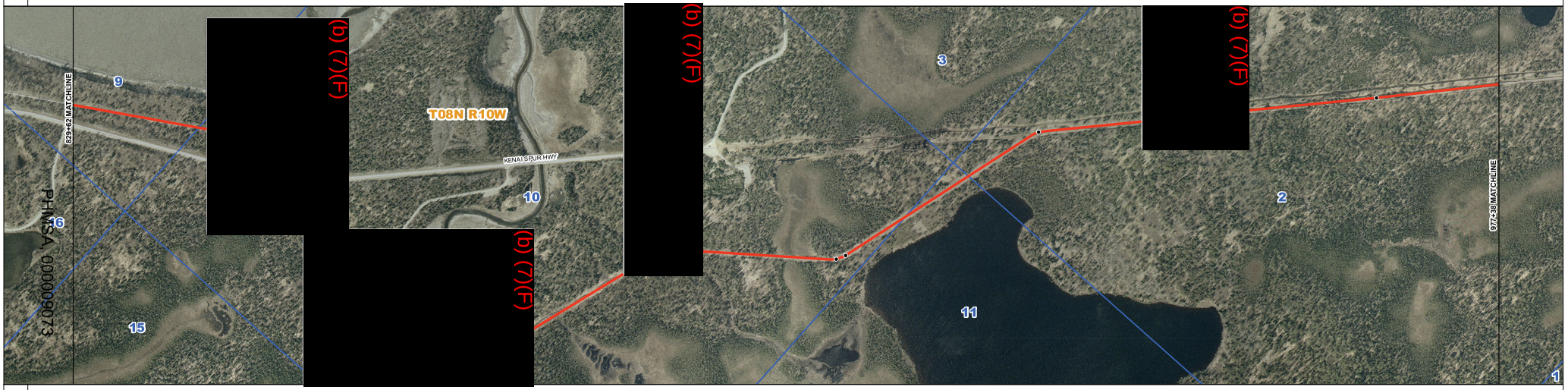
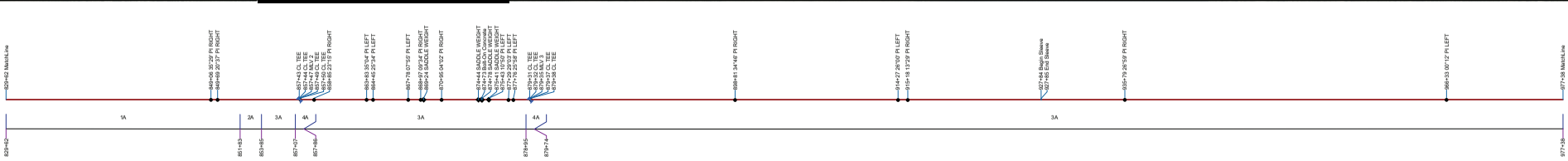




PIPE DETAILS



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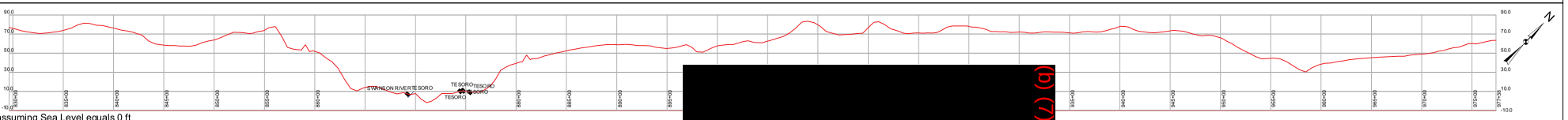

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X60	52000	10	10.75	0.188	A	Extruded Polyethylene	Extruded Polyethylen
2	X52	52000	10	10.75	0.219			
3	X60	60000	10	10.75	0.188			
4	X52	52000	10	10.75	0.25			

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

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 82962 TO: 97738

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/10/2010	1440	1" = 400'	TAPL 9 OF 34

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OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X60	60000	10	10.75	0.188
2	X60	52000	10	10.75	0.188

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

Summary

ILI Run 01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 97738 TO: 109509

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 10 OF 34**

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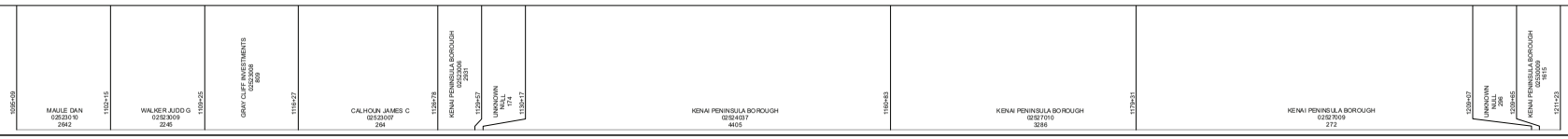
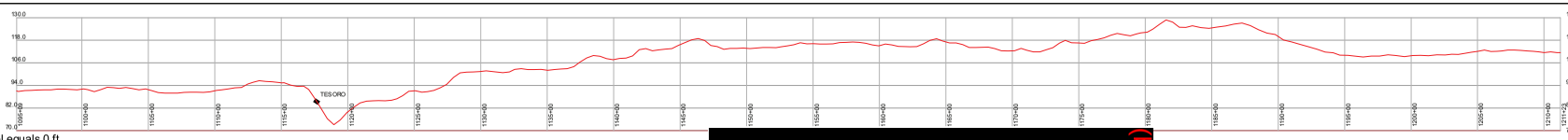
OWNER



FIELD DETAILS

PIPE DETAILS

PROFILE



Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X60	52000	10	10.75	0.188

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary

ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 109509 TO: 121123

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 11 OF 34**

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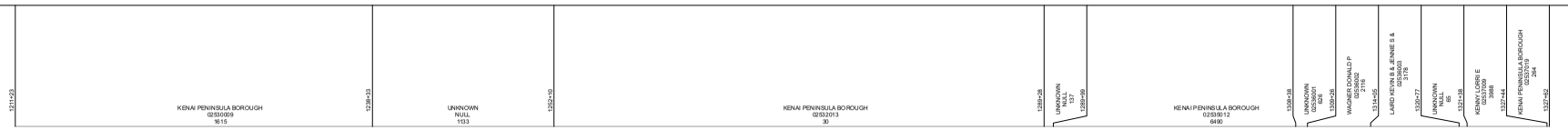
OWNER



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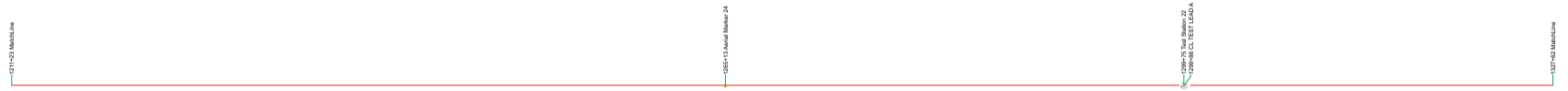
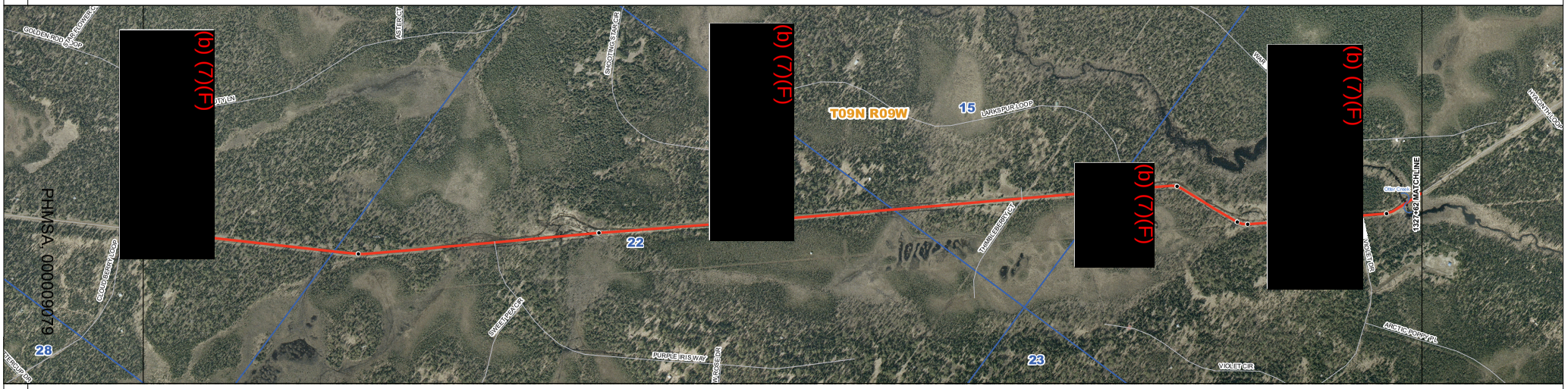
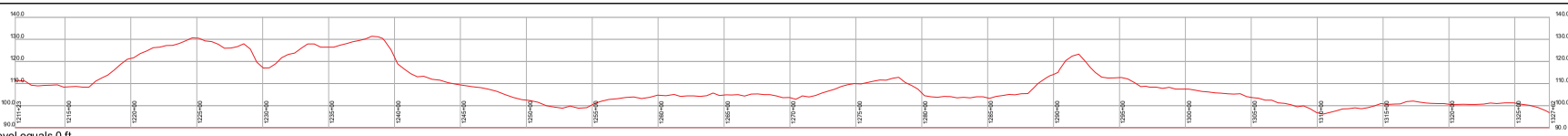




PIPE DETAILS

PROFILE



Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X60	52000	10	10.75	0.188
2	X52	52000	10	10.75	0.219

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary

Last Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 121123 TO: 132762

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	TAPL 12 OF 34

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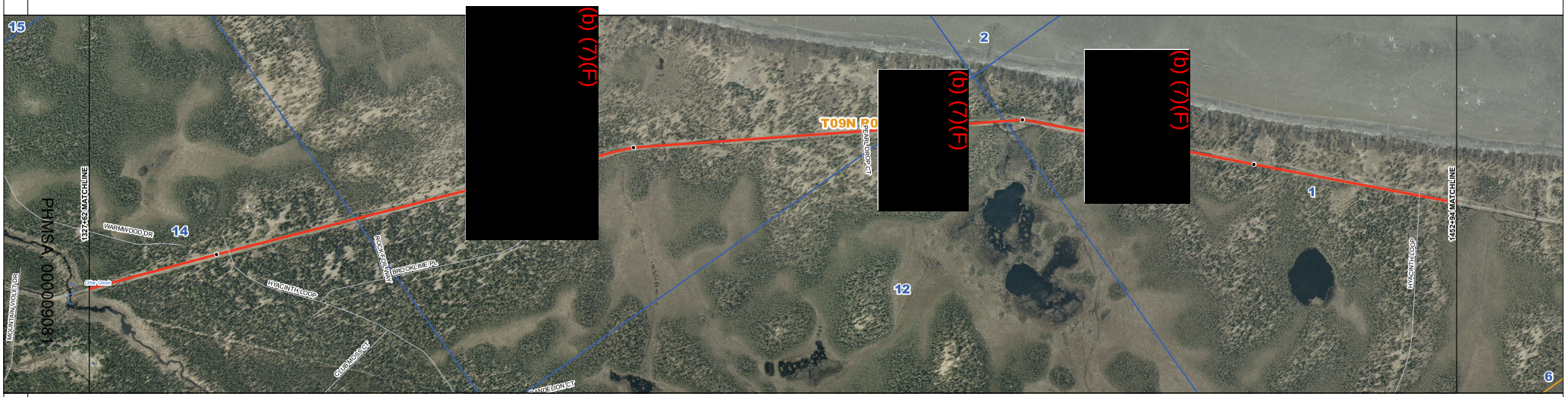
OWNER

KENAI PENINSULA BOROUGH 02537019 264 | UNKNOWN NULL 265 | KENAI PENINSULA BOROUGH 02538010 58 | UNKNOWN NULL 266 | KENAI PENINSULA BOROUGH 02538010 265 | KENAI PENINSULA BOROUGH 02539027 275 | UNKNOWN NULL 13881 | KENAI PENINSULA BOROUGH 02538010 1820

FIELD DETAILS

1327+62 Match Line | 1370+24 Aerial Marker 26 | 1405+19 CL TEST LEAD A 1405+28 Test Station 23 | 1452+94 Match Line



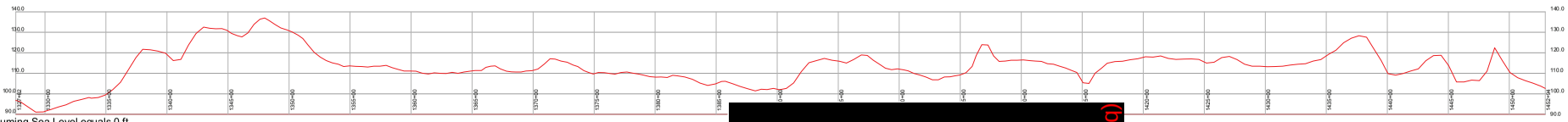
PIPE DETAILS

1327+62 Match Line | 1339+58.93° 41' PI RIGHT | 1368+66.00° 29' PI LEFT | 1378+10.10° 46' PI RIGHT | 1453+18.15° 15' PI RIGHT | 1434+58.90° 17' PI LEFT | 1452+94 Match Line

1A

1327+62 | 1452+94

PROFILE



Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X60	52000	10	10.75	0.188

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

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

Summary

ILI Run 01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 132762 TO: 145294

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	TAPL 13 OF 34

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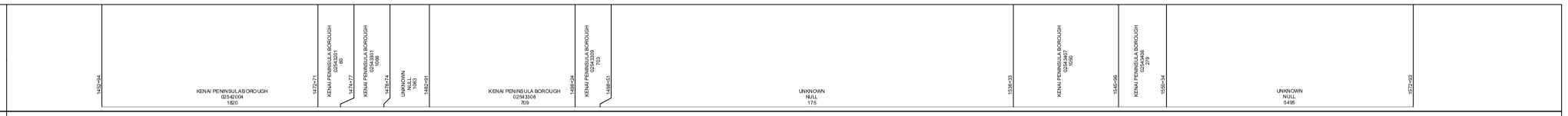
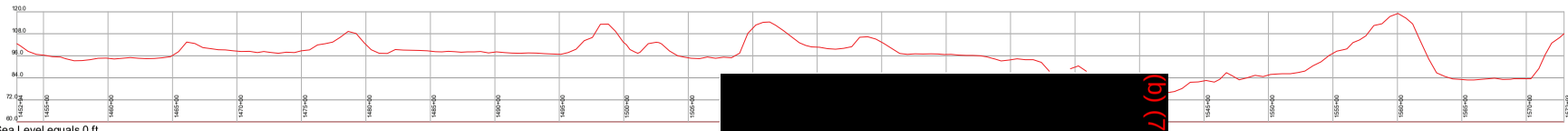
OWNER



FIELD DETAILS

PIPE DETAILS

PROFILE



Profile assuming Sea Level equals 0 ft

(b) (7)(F)

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X60	52000	10	10.75	0.188	A	Extruded Polyethylene	Extruded Polyethylen

Summary
l Run 01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 145294 TO: 157293

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	TAPL 14 OF 34

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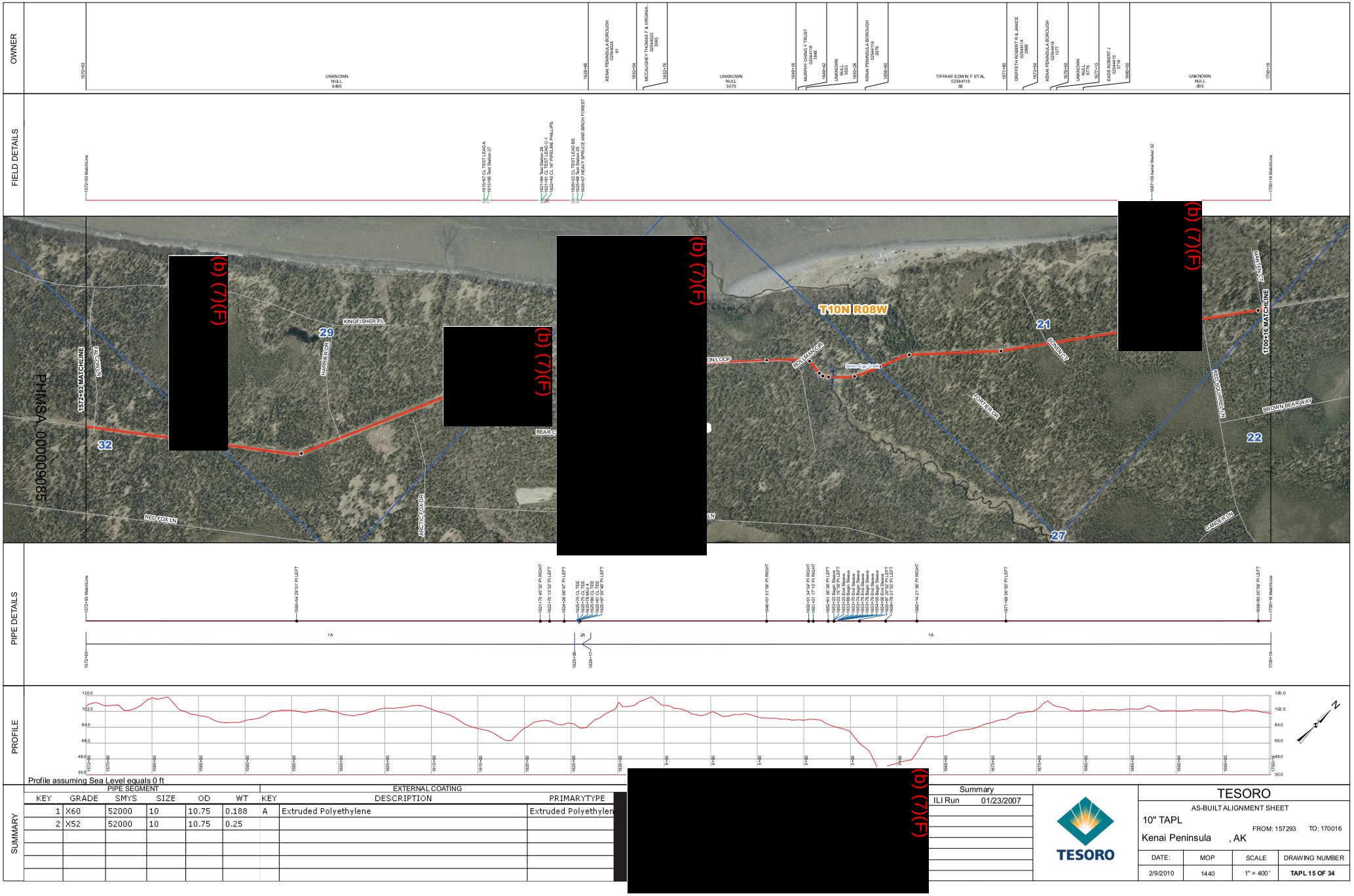

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PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X60	52000	10	10.75	0.188	A	Extruded Polyethylene	Extruded Polyethylen
2	X52	52000	10	10.75	0.25			

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 157293 TO: 170016

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 15 OF 34**

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OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X60	52000	10	10.75	0.188	A	Extruded Polyethylene	Extruded Polyethylen

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 170016 TO: 181860

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 16 OF 34**

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OWNER

FIELD DETAILS

PHMSA 00000000

PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X60	52000	10	10.75	0.188	A	Extruded Polyethylene	Extruded Polyethylen

Summary
ILI Run 01/23/2007

TESORO

TESORO
AS-BUILT ALIGNMENT SHEET
10" TAPL
Kenai Peninsula , AK
FROM: 181860 TO: 192274

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 17 OF 34**

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OWNER

KENAI PENINSULA BOROUGH 02503017 88

KENAI PENINSULA BOROUGH 02503016 479

UNKNOWN NULL 0 1945+50

KENAI PENINSULA BOROUGH 02503015 672

KENAI PENINSULA BOROUGH 02503001 61

KENAI PENINSULA BOROUGH 02503015 606

KENAI PENINSULA BOROUGH 02503014 1286

FIELD DETAILS

1922+74 MatchLine

1937+39 CL TEST LEAD A

1937+93 Test Station 32

1951+21 WOODED

2002+53 Aerial Marker 38

2038+25 MatchLine

PIPE DETAILS

1922+74 MatchLine

1939+46 31°37' Pi RIGHT

1943+70 36°20' PI LEFT
1944+42 27°21' PI LEFT

1945+98 06°31' Pi RIGHT

1948+43 26°31' Pi RIGHT

1952+80 09°15' PI LEFT

1959+95 Begin Sleeve
1959+98 End Sleeve

1962+03 Begin Sleeve
1962+08 End Sleeve

1988+67 00°22' PI LEFT

1997+70 08°56' Pi RIGHT

2022+40 28°03' Pi RIGHT

2038+25 MatchLine

1A

PROFILE

120.0
108.0
96.0
84.0
72.0
60.0

1922+74
1925+00
1930+00
1935+00
1940+00
1945+00
1950+00
1955+00
1960+00
1965+00
1970+00
2000+00
2005+00
2010+00
2015+00
2020+00
2025+00
2030+00
2035+00
2038+25

Profile assuming Sea Level equals 0 ft

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

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X60	52000	10	10.75	0.188

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

Summary

ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 192274 TO: 203825

DATE:	MOP	SCALE	DRAWING NUMBER
2/10/2010	1440	1" = 400'	TAPL 18 OF 34

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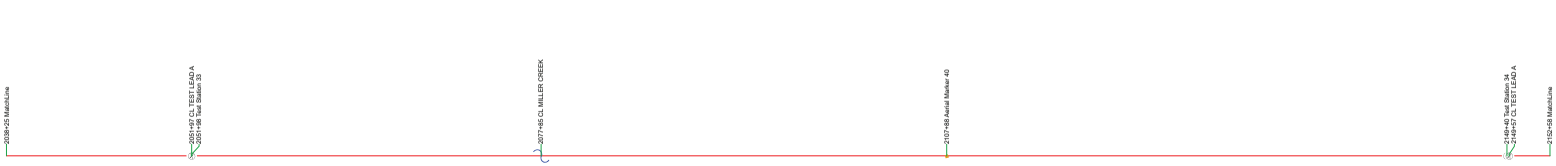
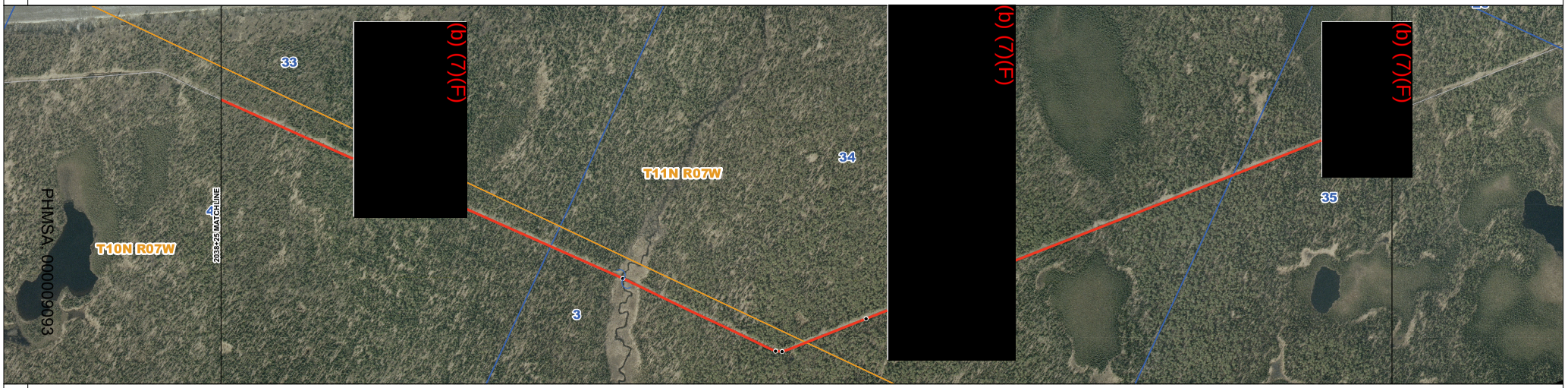
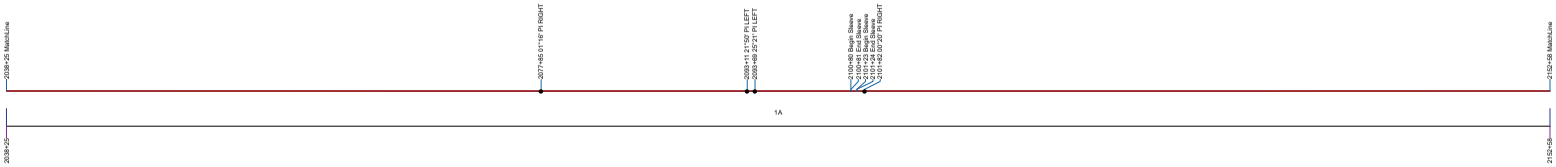
OWNER

FIELD DETAILS





PIPE DETAILS



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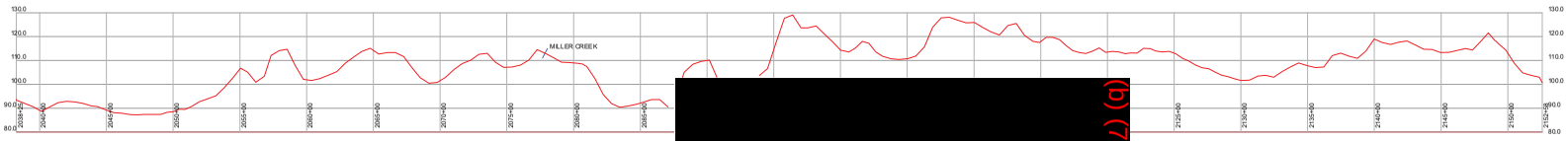

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X60	52000	10	10.75	0.188

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 203825 TO: 215258

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/10/2010	1440	1" = 400'	TAPL 19 OF 34

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OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X60	52000	10	10.75	0.188	A	Extruded Polyethylene	Extruded Polyethylen

Summary	
ILI Run	01/23/2007

(b) (7)(F)

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 215258 TO: 227268

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 20 OF 34**

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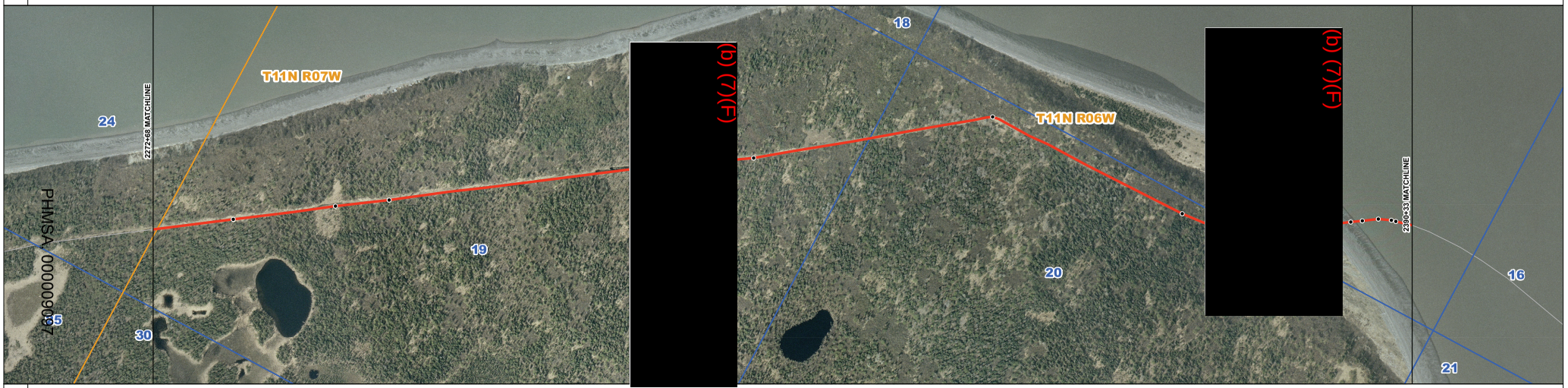
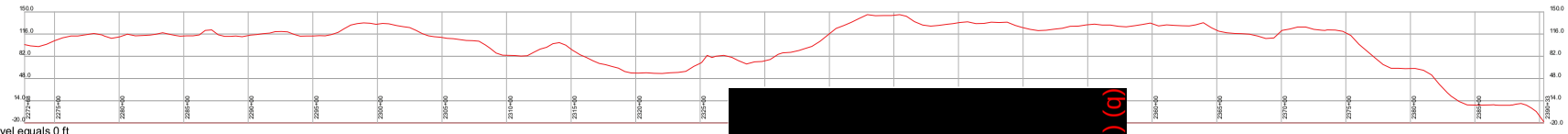
OWNER

FIELD DETAILS



PIPE DETAILS

PROFILE



Profile assuming Sea Level equals 0 ft

(b) (7)(F)

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X60	52000	10	10.75	0.188
2	X52	52000	10	10.75	0.25
3	X52	52000	10	10.75	0.219
4	X52	52000	10	10.75	0.188
5	Grade B	35000	10	10.75	0.625
6	Unknown	Unkno...	10	10.75	0.625

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylene
B	14-16 Mils & 30 Mils Abrasion Resistance Coating.	Fusion Bonded Epoxy

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 227268 TO: 239033

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	TAPL 21 OF 34

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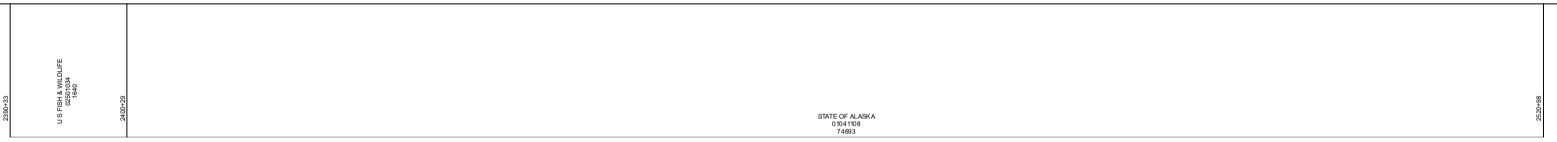

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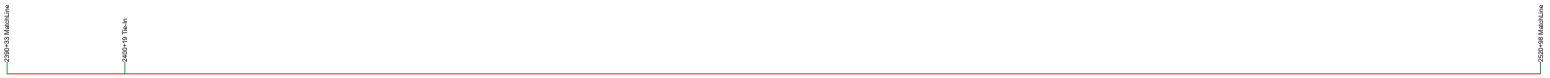
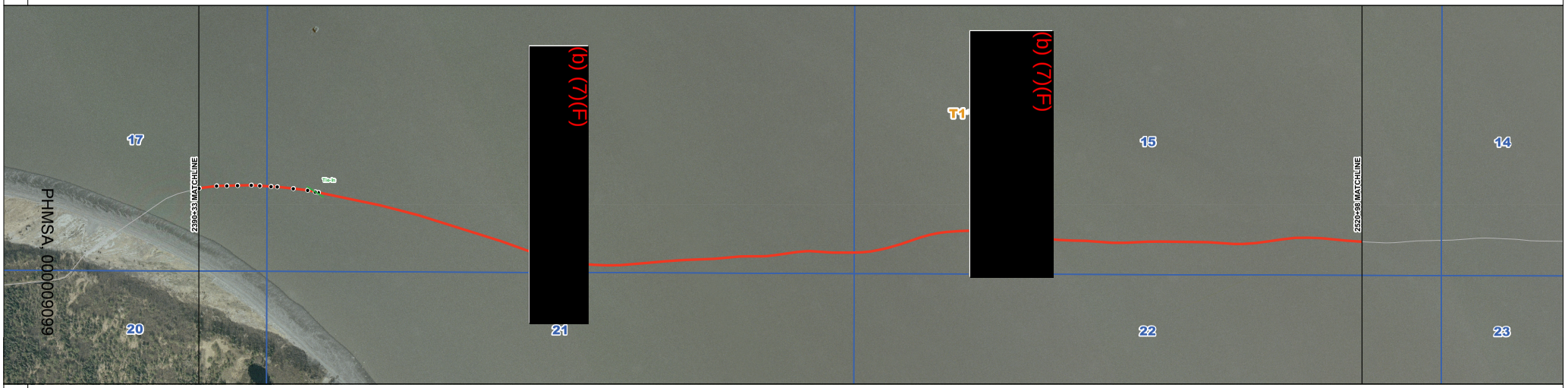
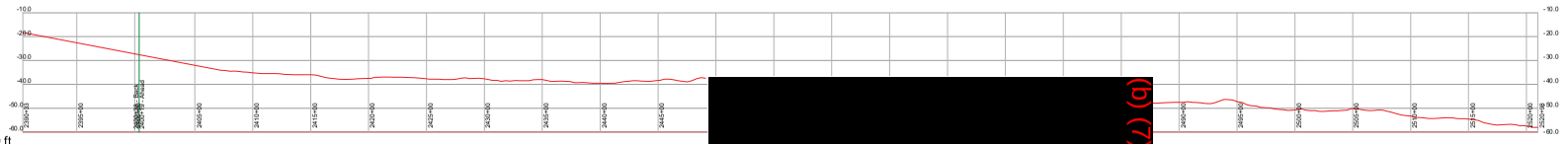




PIPE DETAILS

PROFILE



Profile assuming Sea Level equals 0 ft

N

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	Unknown	Unkno...	10	10.75	0.625
2	Grade B	35000	10	10.75	0.625

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylene
B	14-16 Mils & 30 Mils Abrasion Resistance Coating.	Fusion Bonded Epoxy

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 239033 TO: 252097.5

Kenai Peninsula , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 22 OF 34**

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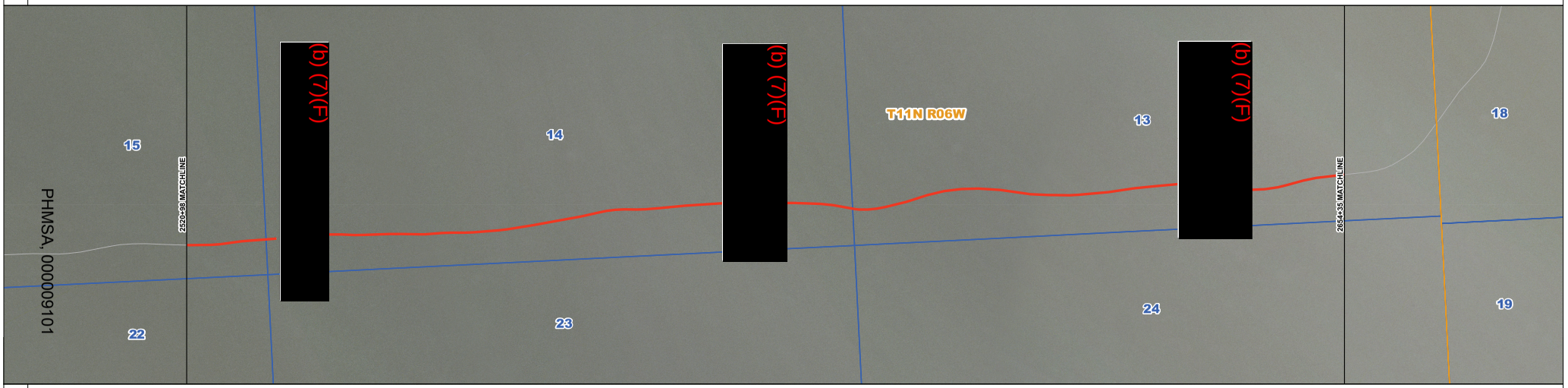
OWNER

FIELD DETAILS



PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

N

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	Grade B	35000	10	10.75	0.625	A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 252097.5 TO: 265434.5

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 23 OF 34**

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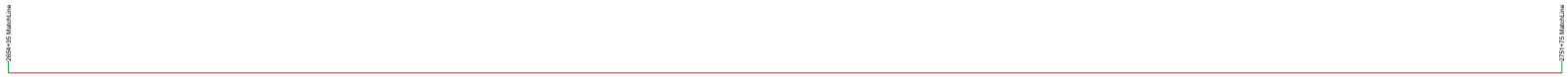
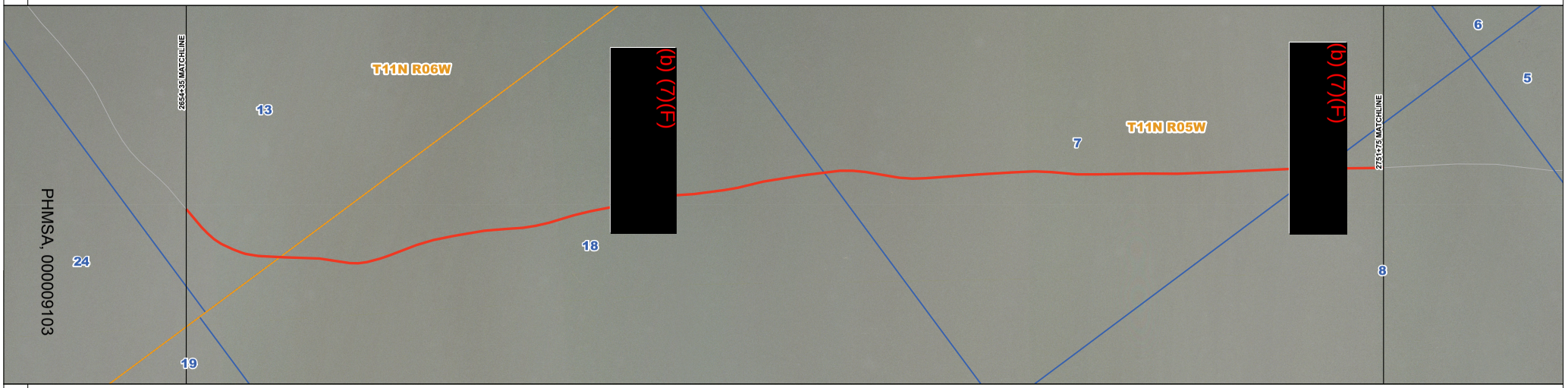
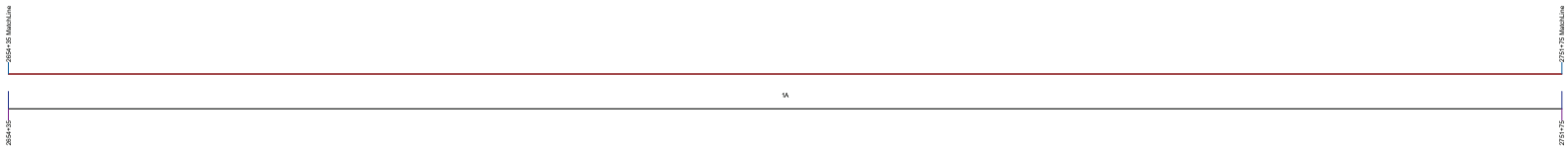
OWNER

FIELD DETAILS





PIPE DETAILS



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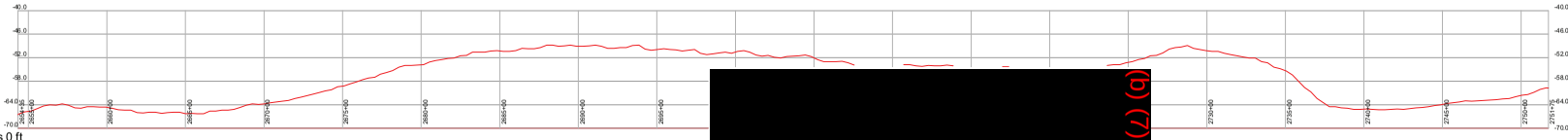

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	Grade B	35000	10	10.75	0.625	A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Kenai Peninsula , AK

FROM: 265434.5 TO: 275174.5

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 24 OF 34**

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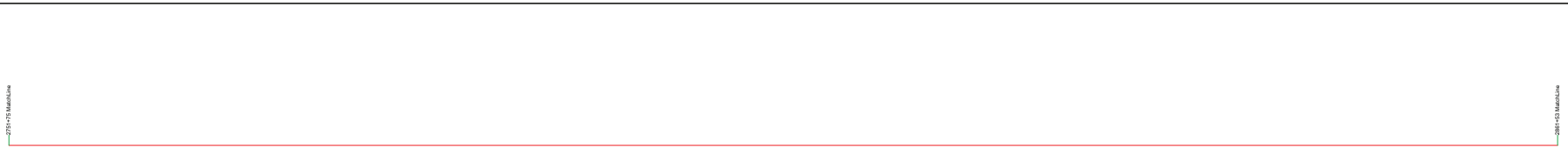
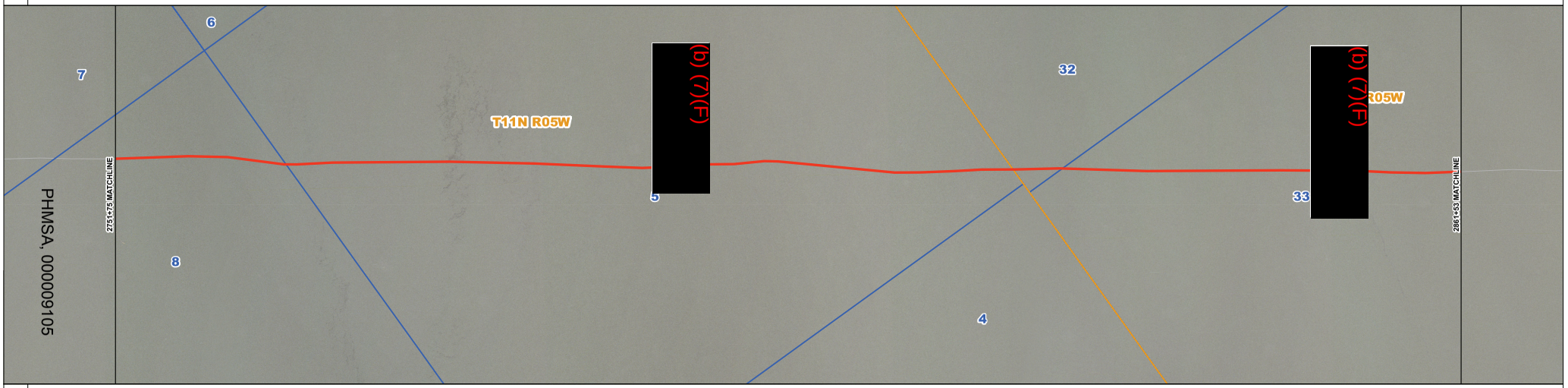
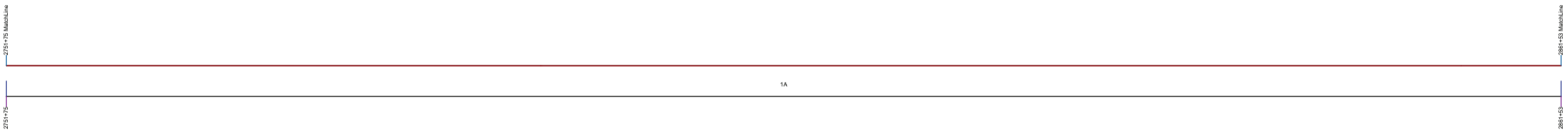
OWNER

FIELD DETAILS





PIPE DETAILS



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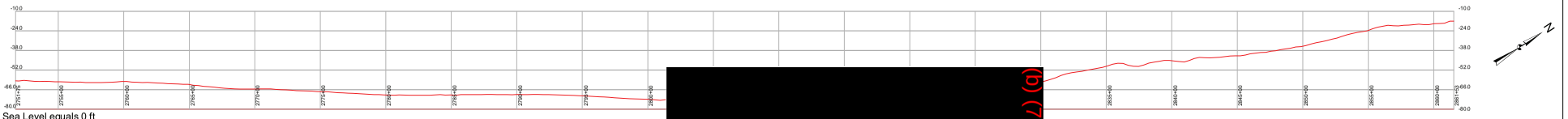

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	Grade B	35000	10	10.75	0.625	A	Extruded Polyethylene	Extruded Polyethylen

Summary	
ILI Run	01/23/2007

(b) (7)(F)

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 275174.5 TO: 286152.5

Anchorage Borough , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 25 OF 34**

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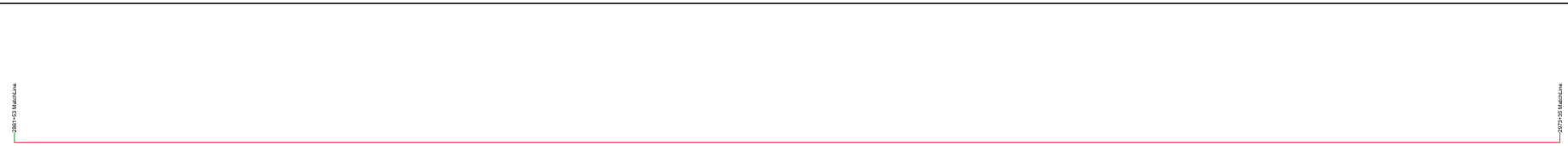
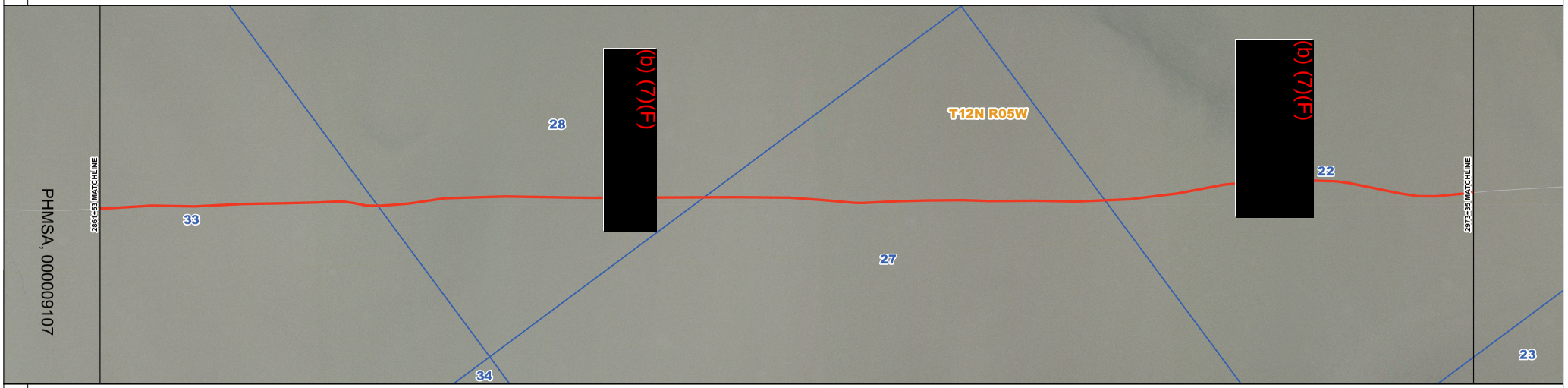
OWNER

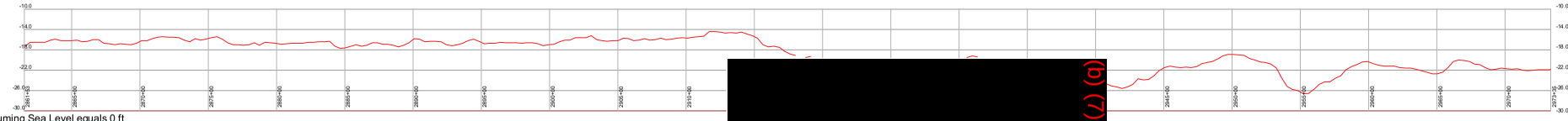
FIELD DETAILS





PIPE DETAILS

PROFILE



Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	Grade B	35000	10	10.75	0.625

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

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

Summary

ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Anchorage Borough , AK

FROM: 286152.5 TO: 297334.5

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	TAPL 26 OF 34

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OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	Grade B	35000	10	10.75	0.625	A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 297334.5 TO: 308374.5

Anchorage Borough , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	**TAPL 27 OF 34**

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OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	Grade B	35000	10	10.75	0.625	A	Extruded Polyethylene	Extruded Polyethylen
2	X52	52000	10	10.75	0.219			
3	X52	52000	10	10.75	0.25			

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Anchorage Borough , AK

FROM: 308374.5 TO: 320858.5

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 400'	TAPL 28 OF 34

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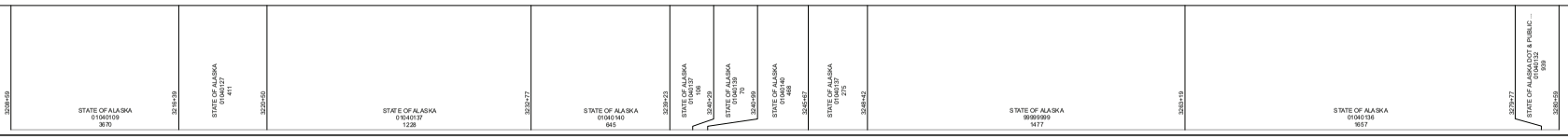

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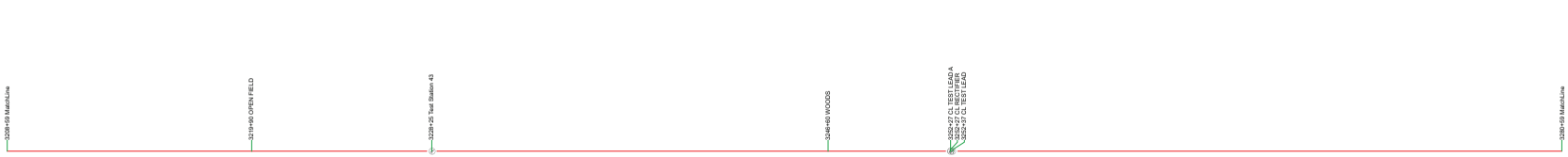

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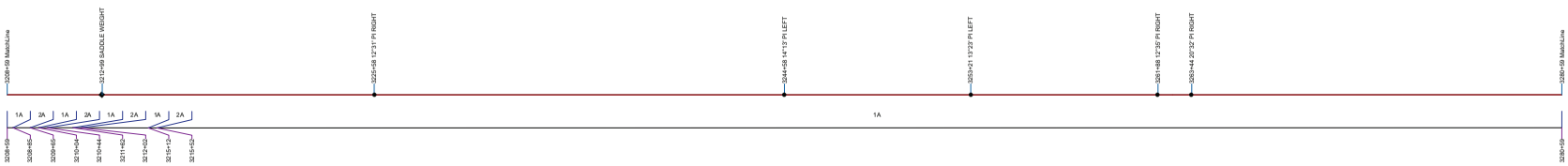

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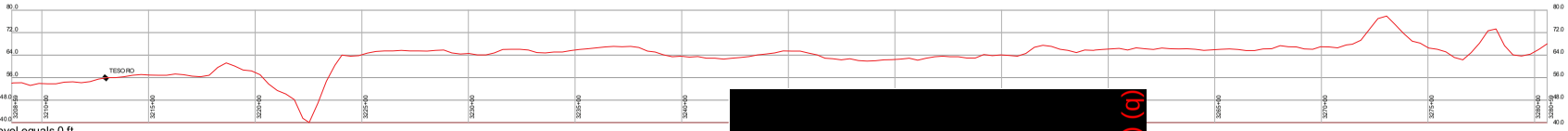

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X52	52000	10	10.75	0.219	A	Extruded Polyethylene	Extruded Polyethylen
2	X52	52000	10	10.75	0.25			

(b) (7)(F)

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 320858.5 TO: 328058.5

Anchorage Borough , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	**TAPL 29 OF 34**

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OWNER

FIELD DETAILS

PIPE DETAILS

PROFILE

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X52	52000	10	10.75	0.219	A	Red FBE w/Canusa Shrink Sleeves @ Weld Joints,Amec	Fusion Bonded Epoxy
2	Unknown	Unkno...	10	10.75	0.375	B	Extruded Polyethylene	Extruded Polyethylene
3	X52	52000	10	10.75	0.25			
4	Unknown	Unkno...	10	10.75	0.25			

[redacted]

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 328058.5 TO: 336060.5

Anchorage Borough , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	**TAPL 30 OF 34**

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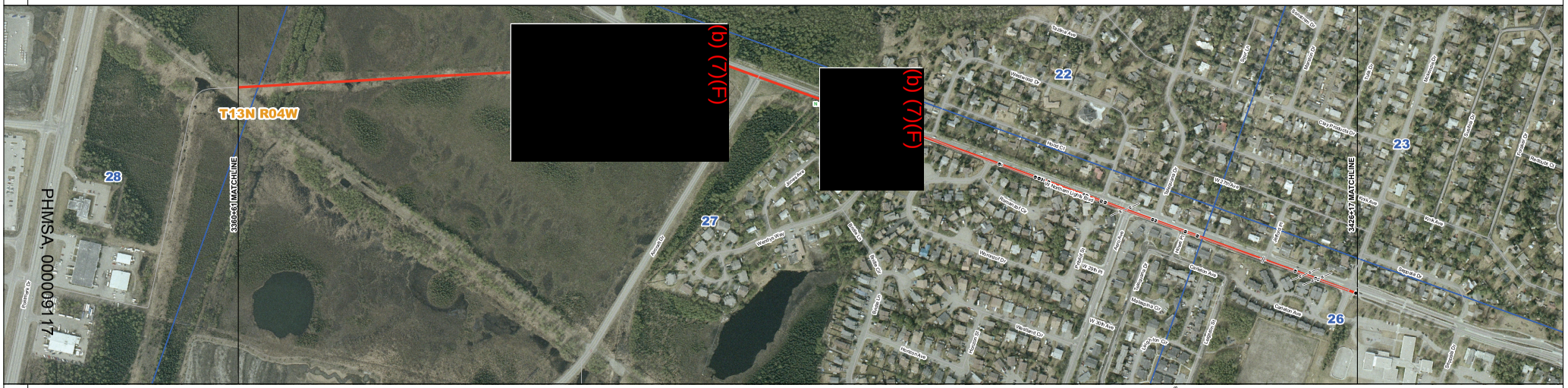
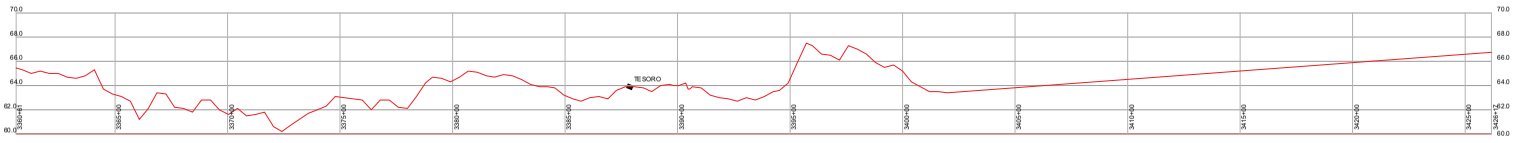


PIPE DETAILS

PROFILE



Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X52	52000	10	10.75	0.219
2	X52	52000	10	10.75	0.25

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylen

(b) (7)(F)

Summary

ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

Anchorage Borough , AK

FROM: 336060.5 TO: 342616.5

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	TAPL 31 OF 34

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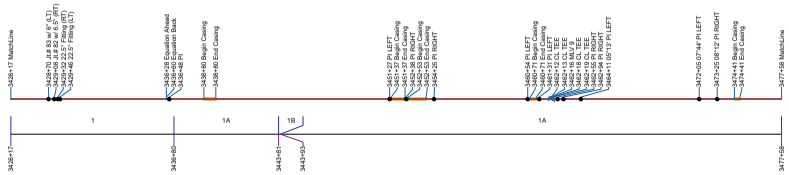
OWNER

FIELD DETAILS

PIPE DETAILS



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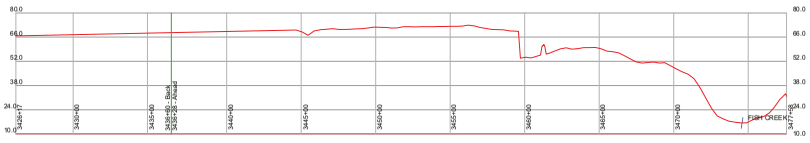

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X52	52000	10	10.75	0.25

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Extruded Polyethylene	Extruded Polyethylene
B	Red FBE w/Canusa Shrink Sleeves @ Weld Joints,Amec	Fusion Bonded Epoxy

(b) (7)(F)

Summary

ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 342616.5 TO: 347758.05

Anchorage Borough , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	TAPL 32 OF 34

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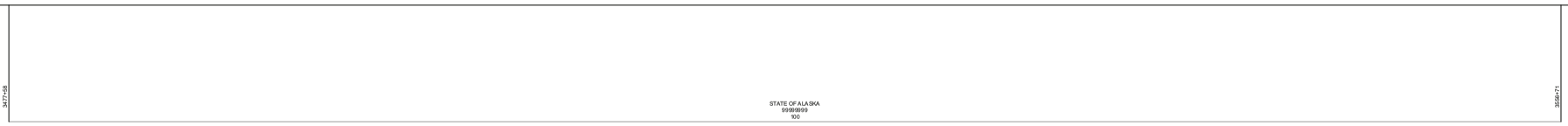

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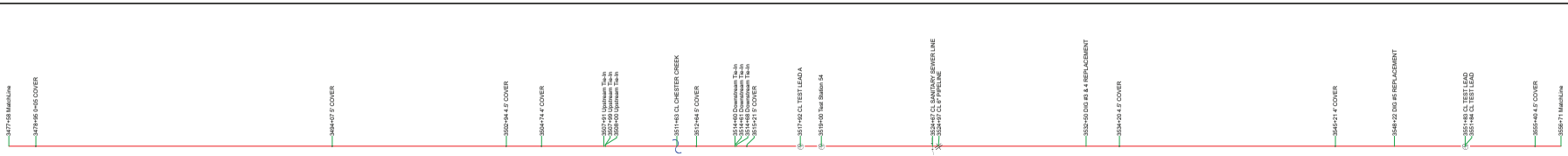
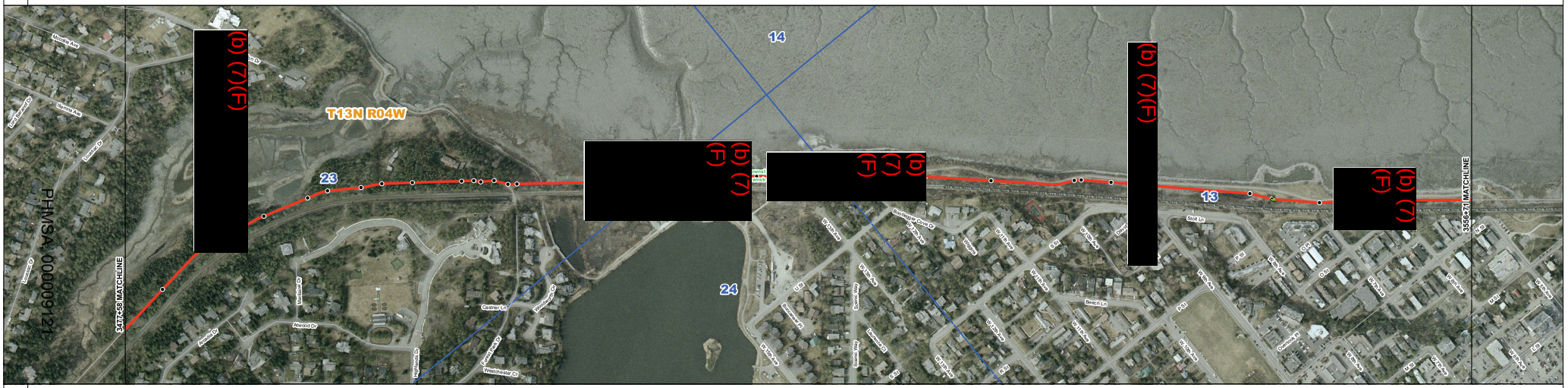
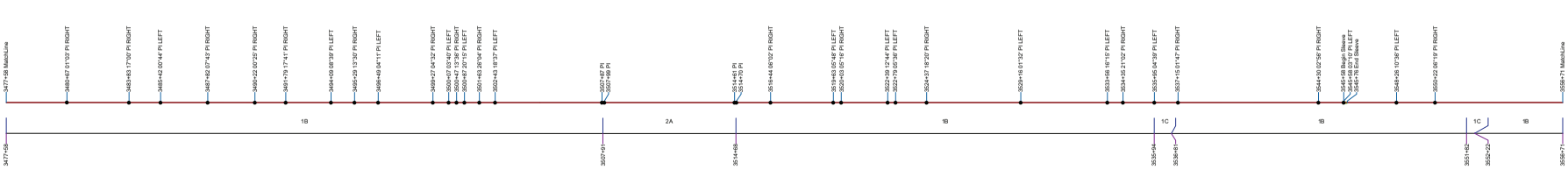




PIPE DETAILS



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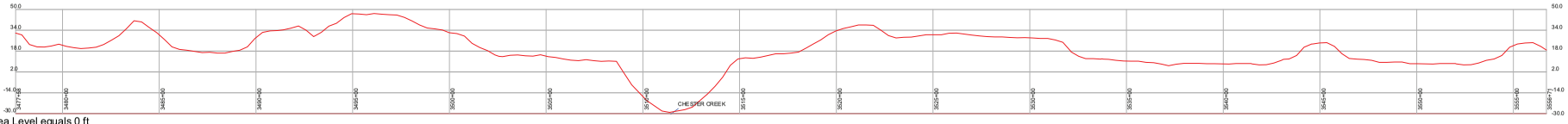

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT

KEY	GRADE	SMYS	SIZE	OD	WT
1	X52	52000	10	10.75	0.25
2	X52	52000	10	10.75	0.365

EXTERNAL COATING

KEY	DESCRIPTION	PRIMARYTYPE
A	Unknown	Fusion Bonded Epoxy
B	Extruded Polyethylene	Extruded Polyethylene
C	Red&Green FBE w/Canusa Shrink Sleeves @ Weld Joint	Fusion Bonded Epoxy

[redacted]

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 347758.05 TO: 355671.05

Anchorage Borough, AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	TAPL 33 OF 34

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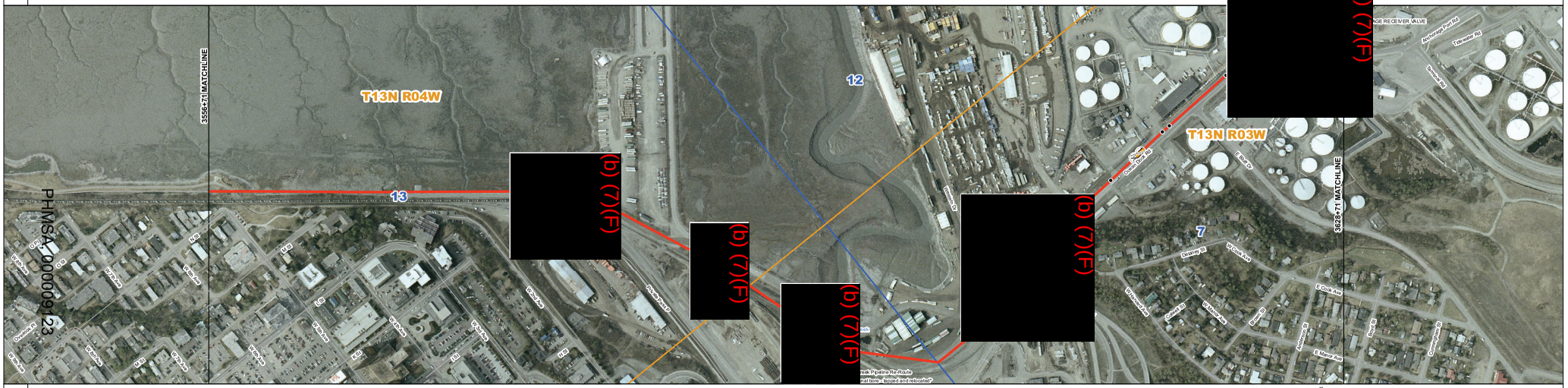
FIELD DETAILS



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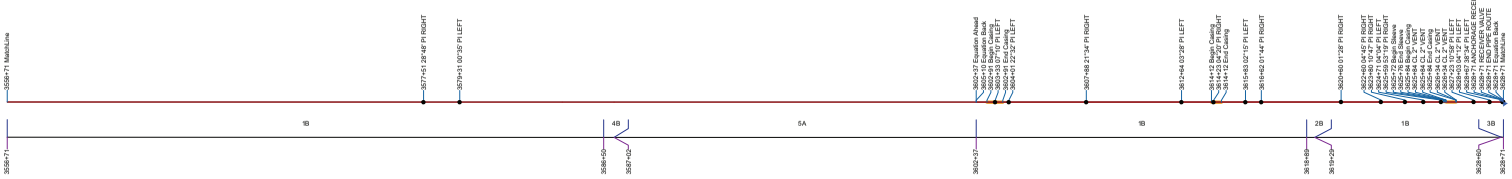

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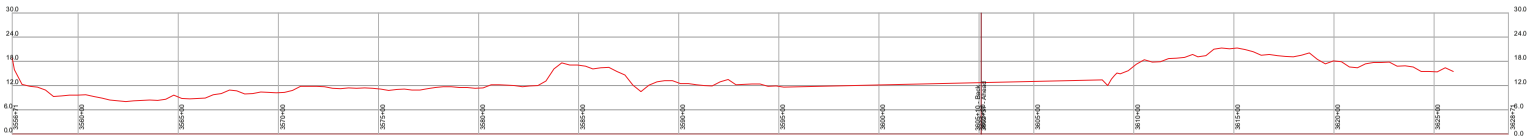

Profile assuming Sea Level equals 0 ft

SUMMARY

PIPE SEGMENT						EXTERNAL COATING		
KEY	GRADE	SMYS	SIZE	OD	WT	KEY	DESCRIPTION	PRIMARYTYPE
1	X52	52000	10	10.75	0.25	A	Fusion Bonded Epoxy	Fusion Bonded Epoxy
2	X52	52000	10	10.75	0.219	B	Extruded Polyethylene	Extruded Polyethylene
3	Unknown	Unkno...	10	10.75	0.375			
4	X52	52000	10	10.75	0.365			
5	Unknown	Unkno...	10	10.75	Unkno...			

(b) (7)(F)

Summary	
ILI Run	01/23/2007

TESORO

TESORO

AS-BUILT ALIGNMENT SHEET

10" TAPL

FROM: 355671.05 TO: 362870.8

Anchorage Borough , AK

DATE:	MOP	SCALE	DRAWING NUMBER
2/9/2010	1440	1" = 250'	TAPL 34 OF 34

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TESORO ALASKA PIPELINE

STREAM CROSSING PHOTOGRAPHS

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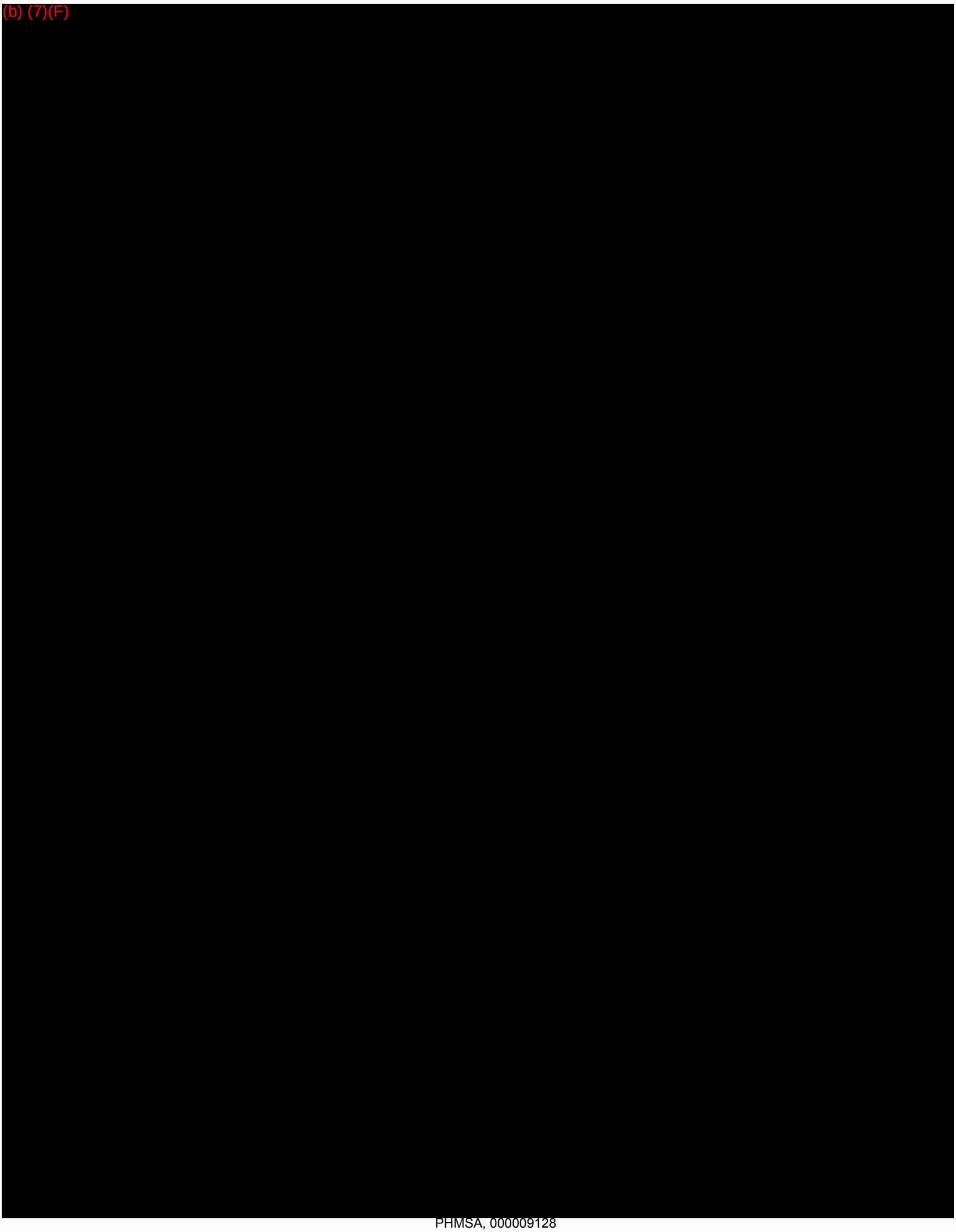
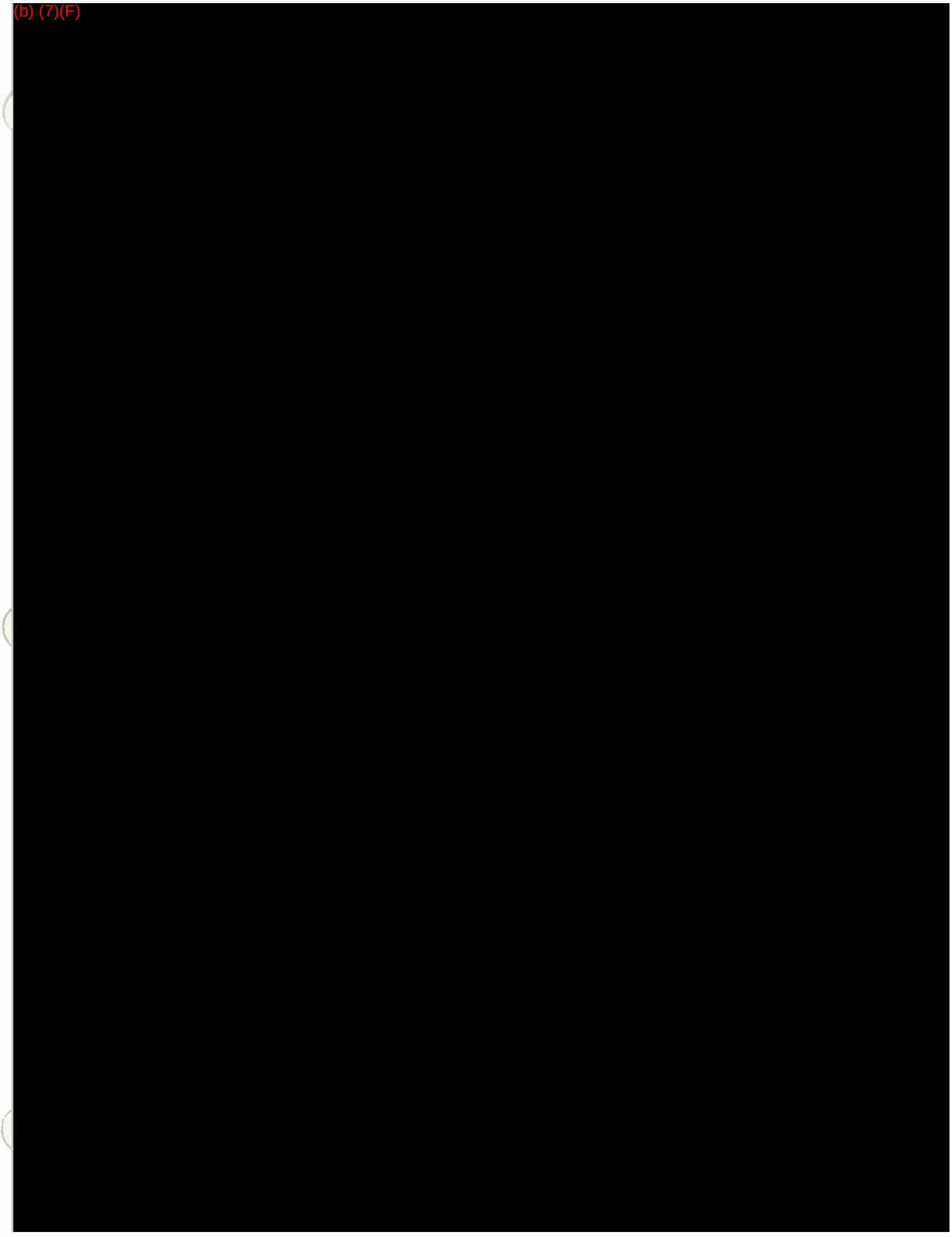

(b) (7)(F)

(b) (7)(F)



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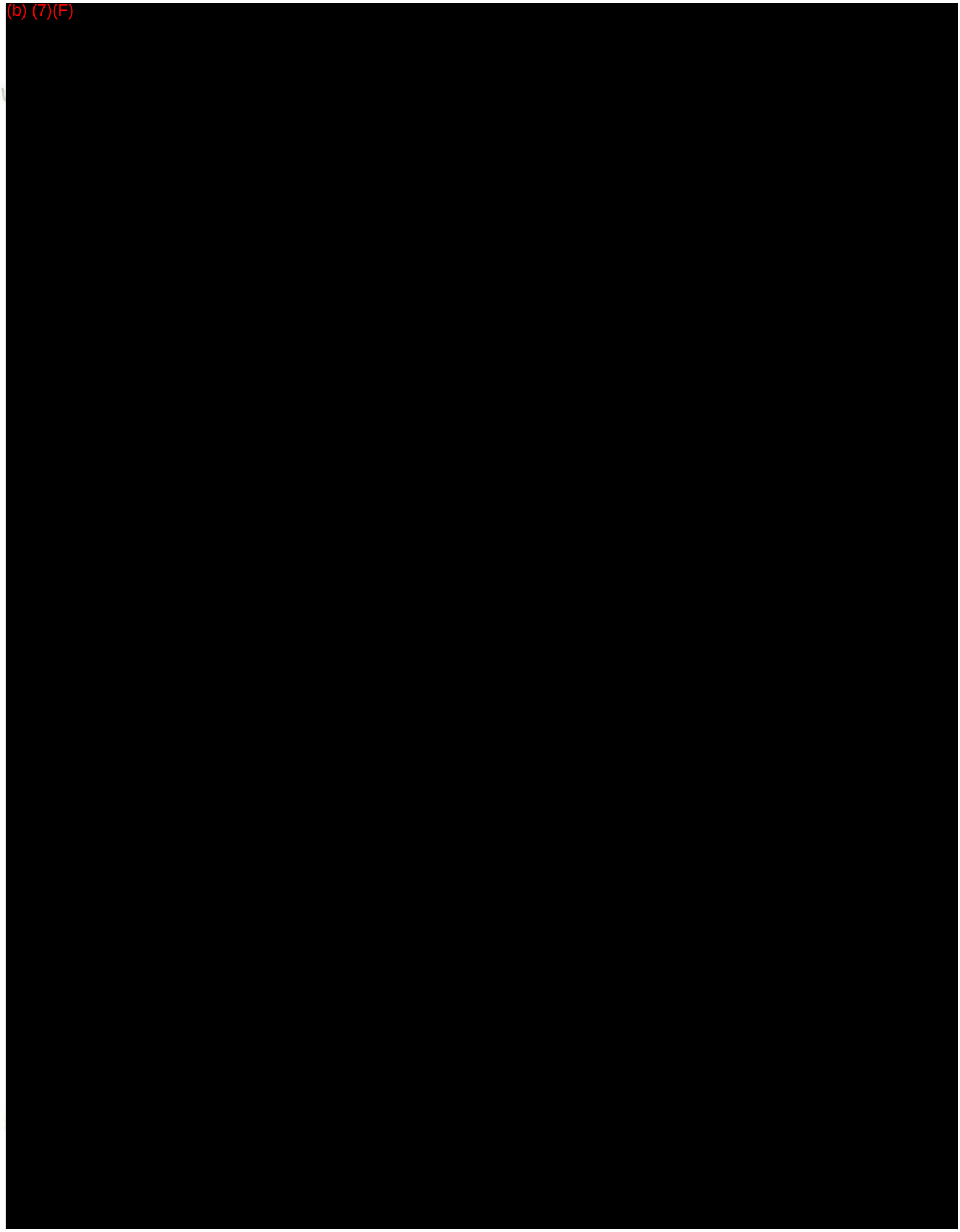

APPENDIX C

ACRONYMS

&

DEFINITIONS

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ACRONYMS

AC	Area Committee
ACP	Area Contingency Plan
ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish and Game
AFB	Air Force Base
bbl	Barrel
BLM	Bureau of Land Management
bph	Barrel per hour
CCO	Control Center Operator
CFR	Code of Federal Regulations
CIRCAC	Cook Inlet Regional Citizens Advisory Council
CISPRI	Cook Inlet Spill Prevention and Response, Inc
COTP	Captain of the Port
CTM	CISPRI Technical Manual
DNR	Department of Natural Resources
DOT	Department of Transportation
EPA	Environmental Protection Agency
ERAP	Emergency Response Action Plan
ERC	Emergency Response Coordinator (facility)
ESA	Environmentally Sensitive Area
ESD	Emergency shut down
FCC	Federal Communications Commission
HAZWOPER	Hazardous Waste operations and emergency response
IC	Incident Commander
ICS	Incident Command System
IRT	Immediate Response Team
KPL	Kenai Pipe Line Company
LEPC	Local Emergency Planning Committee
LNG	Liquified Natural Gas
MEP	Maximum Extent Practicable
MSD	Marine Safety Detachment
MSDS	Material Safety Data Sheet
MSO	Marine Safety Office

NCP	National Contingency Plan
NRC	National Response Center
NRT	National Response Team
NVIC	Navigation and Vessel Inspection Circular
OPA	Oil Pollution Act of 1990
OSC	On-Scene Coordinator
OSHA	Occupation, Safety and Health Administration
psig	Pounds per square inch, gauge
RA	Regional Administrator
RRT	Regional Response Team
RSPA	Research and Special Programs Administration (DOT)
SERC	State Emergency Response Commission
SERVS	Ship Escort and Response Vessel System
UHF	Ultra High Frequency
USCG	United States Coast Guard
VHF	Very High Frequency
WCD	Worst Case Discharge

DEFINITIONS

Adverse weather. The weather conditions that will be considered when identifying response systems and equipment in a response plan for the applicable operating environment. Factors to consider include significant wave height, ice, temperature, weather-related visibility, and currents within the Captain of the Port (COTP) zone in which the systems or equipment are intended to function.

Average most-probable discharge. A discharge of the lesser of 50 barrels or 1 percent of the volume of the worst-case discharge.

Captain of the Port (COTP) Zone. A zone specified in 33 CFR Part 3 and the seaward extension of that zone to the outer boundary of the exclusive economic zone (EEZ).

Contract or other approved means. This includes:

- A written contractual agreement with a response contractor. The agreement should identify and ensure the availability of the specified personnel and equipment described under this NVIC within stipulated response times in the specified geographic areas.
- Active membership in a local or regional oil spill removal organization that has identified specified personnel and equipment described under this NVIC that are available to respond to a discharge within stipulated times in the specified geographic areas.
- A document which:
  - Identifies the personnel, equipment, services, capable of being provided by the response contractor within stipulated response times in specified geographic areas; sets out the parties' acknowledgment that the response contractor intends to commit the resources in the event of a response; permits the Coast Guard to verify the availability of the response resources identified through tests, inspections, and drills; and is incorporated by reference in the response plan; or

Exclusive economic zone. The zone contiguous to the territorial sea of the United States extending to a distance up to 200 nautical miles from the baseline from which the breadth of the territorial sea is measured.

Inland area. The area shoreward of the boundary lines defined in 46 CFR Part 7, except in the Gulf of Mexico; it means the area shoreward of the lines of demarcation (COLREG lines) defined in ээ 80.740-80.850 of Title 33 of the CFR. The inland area does not include the Great Lakes.

Marine transportation-related facility (MTR). An onshore facility, including piping and any structure used to transfer oil to or from a vessel, subject to regulation under 33 CFR Part 154 and any deepwater port subject to regulation under 33 CFR Part 150.

Maximum extent practicable. The planning values derived from the planning criteria used to evaluate the response resources described in the response plan to provide the on-water recovery capability and the shoreline protection and cleanup capability to conduct response activities for a worst-case discharge from a facility in adverse weather.

Maximum most-probable discharge. A discharge of the lesser of 1,200 barrels or 10 percent of the volume of a worst-case discharge.

Nearshore area. The area extending seaward 12 miles from the boundary lines defined in 46 CFR Part 7, except in the Gulf of Mexico. In the Gulf of Mexico, it means the area extending seaward 12 miles from the line of demarcation (COLREG lines) defined in .. 80.740-80.850 of Title 33 of the CFR.

Nonpersistent or Group I oil. A petroleum-based oil that, at the time of shipment, consists of hydrocarbon fractions:

- at least 50 percent of which, by volume, distill at a temperature of 340.C (645.F); and
- at least 95 percent of which, by volume, distill at a temperature of 370.C (700.F).

Nonpetroleum oil. Oil of any kind that is not petroleum based. It includes, but is not limited to, animal and vegetable oils.

Ocean. The offshore area and nearshore area as defined in this appendix.

Offshore area. The area beyond 12 nautical miles measured from the boundary lines defined in 46 CFR Part 7 extending seaward to 50 nautical miles, except in the Gulf of Mexico. In the Gulf of Mexico it is the area beyond 12 nautical miles of the line of demarcation (COLREG lines) defined in ээ80.740-80.850 of Title 33 of the CFR extending seaward to 50 nautical miles.

Oil spill removal organization. An entity that provides response resources.

Operating area. Rivers and canals, Inland, Nearshore, Great Lakes, or Offshore geographic location(s) in which a facility is handling, storing, or transporting oil.

Operating environment. Rivers and canals, Inland, Great Lakes, or Ocean. These terms are used to define the conditions in which response equipment is designed to function.

Persistent oil. A petroleum-based oil that does not meet the distillation criteria for a nonpersistent oil. For the purposes of this appendix, persistent oils are further classified based on specific gravity as follows:

- Group II Specific gravity less than .85
- Group III Specific gravity .85 and less than .95
- Group IV Specific gravity .95 to and including 1.0
- Group V Specific gravity greater than 1.0

Qualified individual(s). An English-speaking representative(s) of the facility identified in the plan, located in the United States, available on a 24-hour basis, familiar with implementation of the facility response plan, and trained in his or her responsibilities under the plan. This person must have full written authority to implement the facility's response plan. This includes:

- Activating and engaging in contracting with identified oil spill removal organization(s);
- Acting as a liaison with the pre-designated Federal On-scene Coordinator (OSC); and

- Obligating, either directly or through prearranged contracts, funds required to carry out all necessary or directed response activities.

Response activities. The containment and removal of oil from the water and shorelines, the temporary storage and disposal of recovered oil, or the taking of other actions as necessary to minimize or mitigate damage to the environment.

Response resources. The personnel, equipment, supplies, and other capability necessary to perform the response activities identified in a response plan.

Rivers and canals. A body of water confined within the inland area that has a project depth of 12 feet or less, including the Intracoastal Waterway and other waterways artificially created for navigation.

Spill (Crisis) Management Team. The personnel identified to staff the organizational structure identified in a response plan to manage response plan implementation.

Substantial threat of a discharge. Any incident or condition involving a facility that may create a risk of discharge of fuel or cargo oil. Such incidents include, but are not limited to storage tank or piping failures, aboveground or underground leaks, fires, explosions, flooding, spills contained within the facility, or other similar occurrences.

Worst-case discharge.

- For vessels, not less than--
  - loss of the entire capacity of all cargo tank(s) on the vessel

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Appendix D

Agency Cross-References

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USCG CROSS REFERENCE

This Plan was originally written to comply with Alaska 18 AAC 75 Oil and Hazardous Substance Pollution Control Regulations. This table provides a means of cross referencing this Plan to USCG regulations.

USCG REFERENCE 33 CFR PART 154	DESCRIPTION	TESORO PLAN SECTION
1035(a)(1)	Name & Address	Introduction
1035(a)(2)	Physical Location	Introduction
1035(a)(3)	24 hr Contact	Introduction
1035(a)(4)	Table of Contents	T.O.C.
1035(a)(5)	Cross Reference	Appendix D
1035(a)(6)	Record of Changes	Introduction
1035(b)(1)(i)	Notification Procedure	Section 1.2
1035(b)(1)(ii)	Spill Report Form	Section 1.2
1035(b)(2)(i)	Discharge Volume	RPS, Section 2.3
1035(b)(2)(ii)	Spill Mitigation	Section 1.6
1035(b)(2)(iii)	Equipment & Responsibilities	Sections 1.5 & 1.6
1035(b)(3)(i)	Initial Supervision	Sections 1.1 & 3.3
1035(b)(3)(ii)	Qualified Individuals	Section 3.3
1035(b)(3)(iii)	Incident Command	Section 3.3
1035(b)(3)(iv)	Response Contractor	Appendix A
1035(b)(4)(i)	Identify Sensitive Areas	Section 3.10
1035(b)(4)(ii)	Describe Sensitive Areas	Section 3.10
1035(b)(4)(iii)	Protect Sensitive Area	Section 1.6 & 3.10
1035(b)(5)	Disposal Plan	Section 1.6
1035(c)	Response Training & Exercises	Section 3.9
1035(d)	Plan Review & Update	Introduction
1035(e)(1)(i)	Facility Description	Section 1.8 & 2.1
1035(e)(1)(iv)	MSDS Information	Section 1.3
1035(e)(2)(i)	Contact Qualified Individuals	Section 3.3
1035(e)(2)(ii)	Contact Response Contractor	Section 1.1
1035(e)(2)(iii)	Contact Agencies	Section 1.1
1035(e)(3)(i)	Facility Response Personnel	Section 3.3
1035(e)(3)(ii)	Response Equipment List	Section 1.6 & 3.6
1035(e)(3)(iii)	Spill Response Contractor	Section 1.6 & 3.6
1035(e)(4)	Communications Plan	Section 1.4
1035(e)(5)	Health & Safety Plan	Section 1.3
1035(e)(6)	Acronyms	Appendix C

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EPA CROSS REFERENCE

This Plan was originally written to comply with Alaska 18 AAC 75 Oil and Hazardous Substance Pollution Control Regulations. This table provides a means of cross referencing this Plan to EPA regulations.

EPA REFERENCE 40 CFR PART 112	DESCRIPTION	TESORO PLAN SECTION
112.7 (d) (1)	Statement of Corporate Commitment	Introduction
112.20 (g)	EPA - Cross Reference	Appendix D
112.20 (h)(1)	Emergency Response Action Plan	Section 1.1 –1.8
112.20 (h)(1)(i)	Qualified Individual(s)	Section 3.3
112.20 (h)(1)(ii)	Spill Notification List	Section 1.2
112.20 (h)(1)(iii)	Reportable Spill Information	Section 1.2
112.20 (h)(1)(iv)	Response Equipment and Its Location	Section 1.5
112.20 (h)(1)(v)	Response Personnel Capabilities	Section 3.3
112.20 (h)(1)(vii)	Evacuation Plans	Section 1.3
112.20 (h)(1)(viii)	Secure the Source	Section 1.1 & 1.6
112.20 (h)(2)	Facility Information	Section 1.8 & 2.1
112.20 (h)(3)	Information about Emergency Responses	Section 1.1
112.20 (h)(3)(i)	Identity of Private Personnel & Equipment	Section 3.8
112.20 (h)(3)(ii)	Contracts	Appendix A
112.20 (h)(3)(iii)	Individuals/Organizations Contact List	Section 1.2
112.20 (h)(3)(iv)	Reportable Spill Information	Section 1.2
112.20 (h)(3)(v)	Response Personnel Capabilities	Section 3.3
112.20 (h)(3)(vi)	Facility's Response Equipment	Section 1.5
112.20 (h)(3)(vii)	Plans for Evacuation of Facility	Section 1.3
112.20 (h)(3)(viii)	Diagram of Evacuation Routes	Section 1.3
112.20 (h)(3)(ix)	Duties of the Qualified Individual(s)	Section 3.3
112.20 (h)(4)	Hazard Evaluation	Section 3.2
112.20 (h)(5)	Response Planning Levels	RPS
112.20 (h)(6)	Discharge Detection Systems	Section 2.1
112.20 (h)(7)(i)	Response Actions to be Carried Out	Section 1.6
112.20 (h)(7)(ii)	Scenario of Response Equipment	Section 1.6
112.20 (h)(7)(iii)	Waste Disposal	Section 1.6
112.20 (h)(7)(iv)	Adequate Containment & Drainage	Section 1.6
112.20 (h)(8)	Drills/Exercises & Response Training	Section 3.9
112.20 (h)(9)	Diagrams	Appendix B
112.20 (h)(10)	Security Systems	Section 2.1
112.20 (h)(11)	Response Plan Cover Sheet	Introduction

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DOT CROSS REFERENCE

This Plan was written in a format to comply with Alaska 18 AAC 75 Oil and Hazardous Substance Pollution Control Regulations. This table provides a means of cross referencing this Plan to DOT regulations.

RSPA REFERENCE 49 CFR PART 194	DESCRIPTION	TESORO PLAN SECTION
194.107 (c) i	Information Summary	Introduction
194.107 (c) ii	Notification Procedures	Section 1.2
194.107 (c) iii	Spill Detection & Mitigation Procedures	Sections 1.6 & 2.0, Cispri Technical Manual
194.107 (c) iv	OSRO Information	Section 1.6 Cispri Technical Manual
194.107 (c) v	Response Activities and Resources	Cispri Technical Manual
194.107 (c) vi	Agency Contact Numbers	Section 1.2
194.107 (c) vii	Training Procedures	Section 3.9
194.107 (c) viii	Equipment Testing	Cispri Technical Manual
194.107 (c) ix	Drill Types, Schedules, and Procedures	Section 3.9
194.107 (c) x	Plan Review and Update Procedures	Introduction

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