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**IMMEDIATE RESPONSE ACTION  
STATUS REPORT**

**BARGE B120 SPILL  
BUZZARDS BAY, MASSACHUSETTS  
RTN 4-17786**

Prepared For:

Bouchard Transportation Company, Inc.  
58 South Service Road, Suite 150  
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Prepared By:

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September 16, 2004



**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM**  
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

-

**A. RELEASE OR THREAT OF RELEASE LOCATION:**

- 1. Release Name/Location Aid: \_\_\_\_\_
- 2. Street Address: \_\_\_\_\_
- 3. City/Town: \_\_\_\_\_ 4. ZIP Code: \_\_\_\_\_
- 5. Check here if a Tier Classification Submittal has been provided to DEP for this Disposal Site.
  - a. Tier 1A     b. Tier 1B     c. Tier 1C     d. Tier 2
- 6. Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114. Specify Program (check one):
  - a. CERCLA     b. HSWA Corrective Action     c. Solid Waste Management
  - d. RCRA State Program (21C Facilities)

**B. THIS FORM IS BEING USED TO:** (check all that apply)

- 1. List Submittal Date of Initial IRA Written Plan (if previously submitted): \_\_\_\_\_ (MM/DD/YYYY)
  - 2. Submit an **Initial IRA Plan**.
  - 3. Submit a **Modified IRA Plan** of a previously submitted written IRA Plan.
  - 4. Submit an **Imminent Hazard Evaluation** (check one)
    - a. An Imminent Hazard exists in connection with this Release or Threat of Release.
    - b. An Imminent Hazard does not exist in connection with this Release or Threat of Release.
    - c. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.
    - d. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.
  - 5. Submit a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard**.
  - 6. Submit an **IRA Status Report**.
  - 7. Submit an **IRA Completion Statement**.
    - a. Check here if future response actions addressing this Release or Threat of Release notification condition will be conducted as part of the Response Actions planned or ongoing at a Site that has already been Tier Classified under a different Release Tracking Number (RTN). When linking RTNs, rescoring via the NRS is required if there is a reasonable likelihood that the addition of the new RTN(s) would change the classification of the site.
      -
    - b. State Release Tracking Number of Tier Classified Site (Primary RTN):  -
- These additional response actions must occur according to the deadlines applicable to the Primary RTN. Use the Primary RTN when making all future submittals for the site unless specifically relating to this Immediate Response Action.
- 8. Submit a **Revised IRA Completion Statement**.

(All sections of this transmittal form must be filled out unless otherwise noted above)





**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM**  
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Release Tracking Number

-

**C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT IRA:**

1. Identify Media Impacted and Receptors Affected: (check all that apply)

- a. Air     b. Basement     c. Critical Exposure Pathway     d. Groundwater     e. Residence
- f. Paved Surface     g. Private Well     h. Public Water Supply     i. School     j. Sediments
- k. Soil     l. Storm Drain     m. Surface Water     n. Unknown     o. Wetland     p. Zone 2
- q. Others    Specify: \_\_\_\_\_

2. Identify Oils and Hazardous Materials Released: (check all that apply)

- a. Oils     b. Chlorinated Solvents     c. Heavy Metals
- d. Others    Specify: \_\_\_\_\_

**D. DESCRIPTION OF RESPONSE ACTIONS:** (check all that apply. for volumes list cumulative amounts)

- 1. Assessment and/or Monitoring Only
- 2. Temporary Covers or Caps
- 3. Deployment of Absorbent or Containment Materials
- 4. Temporary Water Supplies
- 5. Structure Venting System
- 6. Temporary Evacuation or Relocation of Residents
- 7. Product or NAPL Recovery
- 8. Fencing and Sign Posting
- 9. Groundwater Treatment Systems
- 10. Soil Vapor Extraction
- 11. Bioremediation
- 12. Air Sparging
- 13. Excavation of Contaminated Soils

- a. Re-use, Recycling or Treatment     i. On Site    Estimated volume in cubic yards \_\_\_\_\_
- ii. Off Site    Estimated volume in cubic yards \_\_\_\_\_

ia. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

iib. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

iii. Describe: \_\_\_\_\_

- b. Store     i. On Site    Estimated volume in cubic yards \_\_\_\_\_
- ii. Off Site    Estimated volume in cubic yards \_\_\_\_\_

ia. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

iib. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_





**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL  
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

-

**D. DESCRIPTION OF RESPONSE ACTIONS (cont.):** (check all that apply, for volumes list cumulative amounts)

c. Landfill

i. Cover Estimated volume in cubic yards \_\_\_\_\_

Facility Name: \_\_\_\_\_ Town : \_\_\_\_\_ State: \_\_\_\_\_

ii. Disposal Estimated volume in cubic yards \_\_\_\_\_

Facility Name: \_\_\_\_\_ Town : \_\_\_\_\_ State: \_\_\_\_\_

14. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: \_\_\_\_\_  
\_\_\_\_\_

b. Facility Name: \_\_\_\_\_ Town : \_\_\_\_\_ State: \_\_\_\_\_

c. Facility Name: \_\_\_\_\_ Town : \_\_\_\_\_ State: \_\_\_\_\_

15. Removal of Other Contaminated Media:

a. Specify Type and Volume: \_\_\_\_\_  
\_\_\_\_\_

b. Facility Name: \_\_\_\_\_ Town : \_\_\_\_\_ State: \_\_\_\_\_

c. Facility Name: \_\_\_\_\_ Town : \_\_\_\_\_ State: \_\_\_\_\_

16. Other Response Actions:

Describe: \_\_\_\_\_  
\_\_\_\_\_

17. Use of Innovative Technologies:

Describe: \_\_\_\_\_





**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

4 - 17786

**E. LSP SIGNATURE AND STAMP :**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that an **Immediate Response Action Plan** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Imminent Hazard Evaluation** is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation complies(y) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> if Section B of this form indicates that an **Immediate Response Status Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Immediate Response Action Completion Statement** or a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. First Name: Richard 2. Last Name: Wozmak  
 3. Telephone: (603) 434-3116 4. Ext.: \_\_\_\_\_ 5. FAX: (603) 432-2445  
 6. Signature:  7. Date: 09/20/2004  
 8. LSP #: 5463 9. LSP Stamp:





**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM**  
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

-

**F. PERSON UNDERTAKING IRA:**

1. Check all that apply:  a. change in contact name.  b. change of address  c. change in the person undertaking response actions
2. Name of Organization: \_\_\_\_\_
3. Contact First Name: \_\_\_\_\_ 4. Last Name: \_\_\_\_\_
5. Street: \_\_\_\_\_ 6. Title: \_\_\_\_\_
7. City/Town: \_\_\_\_\_ 8. State: \_\_\_\_\_ 9. ZIP Code: \_\_\_\_\_
10. Telephone: \_\_\_\_\_ 11. Ext.: \_\_\_\_\_ 12. FAX: \_\_\_\_\_

**G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA:**

1. RP or PRP  a. Owner  b. Operator  c. Generator  d. Transporter  
 e. Other RP or PRP Specify: \_\_\_\_\_
2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
4. Any Other Person Undertaking IRA Specify Relationship: \_\_\_\_\_

**H. REQUIRED ATTACHMENT AND SUBMITTALS:**

1. Check here if any Remediation Waste, generated as a result of this IRA, will be stored, treated, managed, recycled or reused at the site following submission of the IRA Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.  
 A Release Abatement Measure (RAM) Plan (BWSC106)  Phase IV Remedy Implementation Plan (BWSC108)
2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof. \* 9/8/03 Request for IRA with Interim Deadline
3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the implementation of an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.
4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a Completion Statement for an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.
5. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.
6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.





Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC105

**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL  
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

4 - 17786

**I. CERTIFICATION OF PERSON UNDERTAKING IRA:**

1. I, Richard Wozmak, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: [Signature] Signature 3. Title: LSP

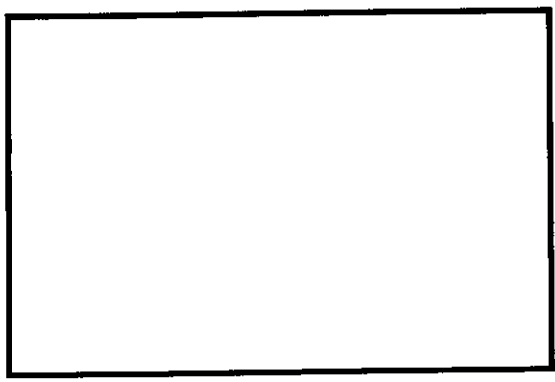
4. For: Agent for Bouchard Transportation Company, Inc. 09/20/2004  
(Name of person or entity recorded in Section F) (mm/dd/yyyy)

5. Check here if the address of the person providing certification is different from address recorded in Section F.

6. Street: \_\_\_\_\_  
7. City/Town: \_\_\_\_\_ 8. State: \_\_\_\_\_ 9. ZIP Code: \_\_\_\_\_  
10. Telephone: \_\_\_\_\_ 11. Ext.: \_\_\_\_\_ 12. FAX: \_\_\_\_\_

**YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.**

Date Stamp (DEP USE ONLY:)



*Bouchard Transportation Co., Inc.*

58 South Service Road, Suite 150  
Melville, New York 11747  
Tel.: (631) 390-4900  
Fax: (631) 390-4905

ATLANTIC COAST • LONG ISLAND SOUND  
GREAT LAKES • GULF COAST

January 29, 2004

Richard J. Wozmak  
GeoInsight, Inc.  
319 Littleton Road, Suite 105  
Westford, MA 01886

RE: B120 Oil Release  
RTN 4-17786  
Buzzards Bay, Massachusetts

Dear Mr. Wozmak:

In accordance with 310 CMR 40.0009 (2), this letter is to serve as written authorization for you to act as an agent for Bouchard Transportation Company, Inc. for the purposes of making written declarations required under 301 CMR 40.0000. This authorization applies to written declarations for the release of oil from Bouchard Barge B120 on April 27, 2003 (release tracking number 4-17786).

Sincerely,



Victor P. Corso, Esq.  
Risk Manager



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## **IMMEDIATE RESPONSE ACTION STATUS REPORT**

### **BARGE B120 SPILL BUZZARDS BAY, MASSACHUSETTS RTN 4-17786**

#### **1.0 INTRODUCTION**

GeoInsight, Inc. (GeoInsight) prepared this Immediate Response Action (IRA) Status Report on behalf of Bouchard Transportation Company, Inc. ("Bouchard" or "RP") for the release of oil into Buzzards Bay, Massachusetts. The response actions described in this report were conducted pursuant to the September 15, 2003 IRA Plan (the "IRA Plan") prepared by GeoInsight. The IRA Plan was prepared in response to a September 8, 2003 *Request for IRA With Interim Deadline* letter from the Massachusetts Department of Environmental Protection (MADEP). Several modifications were made to the September 15, 2003 IRA Plan in consultation with MADEP, the National Oceanic & Atmospheric Administration (NOAA), and the U.S. Coast Guard (USCG). These modifications to the IRA Plan were summarized in a September 29, 2003 Errata Sheet. Additional modifications to the IRA Plan were proposed to conduct cleanup activities at Long Island (Hoppy's Landing) in Fairhaven, Massachusetts. These additional modifications to the IRA Plan were summarized in IRA Plan Modification reports dated April 23, 2004 and July 8, 2004. This status report covers the period from January 1, 2004 until July 31, 2004. Response actions conducted after July 31, 2004 will be summarized in subsequent status reports.

The activities conducted pursuant to the IRA Plan supplement the activities conducted in accordance with the May 23, 2003 Immediate Response Action: Treatment and Completion Guidelines Plan (IRATCGP) that was developed for this incident by the Unified Command. The Unified Command was comprised of representatives from the USCG, MADEP, and the RP. Field activities conducted as part of the IRATCGP were completed as of September 3, 2003. The IRA activities bridge the transition period from the end of the IRATCGP activities and the performance of post-IRA response actions conducted under the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000 and the Oil Pollution Act of 1990 (OPA 1990).

As part of response actions conducted under the MCP, a Phase I Initial Site Investigation (Phase I) and Conceptual Site Model (CSM), Tier Classification, Tier 1A Permit Application, and Phase II Conceptual Scope of Work were submitted to MADEP on May 3, 2004. The release was classified as a Tier 1A disposal site in accordance with the site scoring guidelines in the MCP. On May 21, 2004, a Partial Class A-2 Response Action Outcome (RAO) Statement was submitted for a portion of the shoreline impacted by the release; specifically the 57 shoreline segments where the maximum degree of oiling was categorized as “very light” or “light” as well as three sand shoreline segments where the maximum degree of oiling was characterized as “moderate.” As described in the partial RAO, a condition of No Significant Risk was achieved for these 57 segments and additional response actions are not required under the MCP. Although MCP response actions are considered to be complete at these segments, additional characterization may be conducted at these segments as part of the Natural Resource Damage Assessment (NRDA) separately in progress. Refer to the RAO for specific information regarding the 57 segments included in the partial RAO.

## **2.0 RELEASE BACKGROUND AND ENVIRONMENTAL SETTING**

On April 27, 2003, a release of No. 6 fuel oil was reported from Bouchard Barge #120 (B120) into Buzzards Bay, Massachusetts. The exact area where the release occurred is unknown, but the approximate location of the oil that was initially spotted on the water surface is shown on Figure 1. Winds and currents moved the oil primarily to the north, northwest, and northeast and the oil came ashore on sections of shoreline abutting Buzzards Bay in Westport, Dartmouth, New Bedford, Fairhaven, Mattapoisett, Marion, Wareham, Bourne, and Falmouth. Isolated occurrences of tar balls/patties to the south and southeast on the Elizabeth Islands and in Rhode Island to the west were also observed, although some of these occurrences were later determined not to be related to the release.

A CSM was included as part of the Phase I report that summarized the general understanding of the movement and distribution of the released oil and evaluated potential exposure pathways to human and environmental receptors. The CSM was supported by the data collected during the initial assessment and upon the release and shoreline conditions. In general, as the CSM indicates, the majority of the released oil was stranded in the intertidal zone on the shoreline and was removed by the initial cleanup operations. In general, the remaining oil on the shoreline is present on exposed rock surfaces and subject to natural weathering processes. It is important to note that a revised CSM is currently being prepared for inclusion in the forthcoming Phase II Scope of Work. The CSM is being revised to include additional modeling information that is currently being conducted as part of the NRDA process to describe the transport of released oil.

### **2.1 SHORELINE IDENTIFICATION**

During the initial cleanup operations conducted by Unified Command, the oiled areas of shoreline were divided into 15 geographical divisions to facilitate cleanup operations. The divisions extending from the Elizabeth Islands and Cape Cod (to the east and south of the Cape Cod Canal) were labeled with an “E” prefix, and the divisions to the west of the Cape Cod Canal were labeled with a “W” prefix. As illustrated in Figure 2, the divisions were subdivided into

149 individual shoreline segments during Shoreline Cleanup Assessment Team (SCAT) reconnaissance visits. For example, shoreline segment W1E-04 corresponds to Crescent Beach in Mattapoisett (west of the Cape Cod Canal in geographical division 1E, segment 04). Of the original 149 segments, 29 were subsequently confirmed to be unoiled and are not considered further under the IRA Plan. The shoreline segments are also identified on Figure 1.

Of the remaining 120 segments that were oiled, and therefore part of the “disposal site” as defined in the MCP, a condition of No Significant Risk was found to be present at 57 segments, and a partial Class A-2 RAO was filed for these segments. Table 1 includes a list of the shoreline segments, whether these segments were oiled or unoiled, and which segments were included as part of the partial Class A-2 RAO. Response actions are currently being conducted under the MCP at the remaining 63 segments that were oiled by the release, but were not included in the partial Class A-2 RAO.

## **2.2 SHORELINE CLASSIFICATION**

Individual shoreline segments were classified based upon the shoreline composition, public use, and habitat. As described in the IRATCGP, the shoreline in the vicinity of the release area was divided into the following shoreline classifications:

Shoreline Classification	Shoreline Type
1A	Heavily utilized, public recreational sand beaches
1B	Less utilized, semi-public and private sand beaches
1C	Mixed sand and gravel, gravel (pebble to boulder) and rip rap groins (jetties)
1D	Rip rap seawalls, bulkheads, piers, docks, and pilings
1E	Rocky shorelines
1F	Salt marshes
2	Roseate tern habitat (Ram Island, Bird Island, and Penikese Island, in particular)
3	Piping plover habitat

More than one classification type may be present at a particular shoreline segment. This site-specific classification was developed using the Environmental Sensitivity Index (ESI) codes, which were developed by NOAA (1999) in response to other oil spills in the context of evaluating shoreline habitat type. This approach for shoreline classification has been widely utilized by the scientific community in assessing and responding to oil spills.

### 2.3 SENSITIVE RECEPTORS

Potential sensitive receptors identified in the project area include water resources (aquifers, public and private water supply wells), critical habitats, threatened and endangered species, and humans.

Review of information provided by MassGIS indicated that areas to the east and southeast of the Cape Cod Canal, as well as the Elizabeth Islands to the south, are within a Medium Yield Potentially Productive Aquifer and a USEPA-Designated Sole Source Aquifer. A High Yield Potentially Productive Aquifer is located near the Cape Cod Canal. Municipal public supply wells near the shoreline are located in Bourne, Falmouth, Fairhaven, Mattapoisett, and on

Cuttyhunk Island (part of the Elizabeth Islands). Non-community public water supplies are located near the shoreline in Westport, Dartmouth, and Wareham.

The intertidal zone of the shoreline provides habitat for wildlife species, such as shorebirds and marine invertebrates. Information obtained from the Natural Heritage and Endangered Species Program (NHESP) indicated that several threatened or endangered species are present in certain areas of Buzzards Bay. For example, two bird species that utilize the intertidal zone of the shoreline for foraging habitat in this area include the roseate tern (*Sterna dougallii*), an endangered species under Massachusetts and Federal law, and the piping plover (*Charadrius melodus*), a threatened species under Massachusetts and Federal law. Several Buzzards Bay areas are designated as rare and critical habitats according to NHESP information. Naushon and Pasque Islands (Elizabeth Islands) are designated as areas that may contain rare wetland habitats. Areas west of the Cape Cod Canal may also contain rare wetland habitats as well as Protected Open Spaces. An area of Critical Environmental Concern is also present near Phinney's Harbor in Bourne. Maps from MassGIS and NHESP showing sensitive receptor information were included in the May 3, 2004 Phase I report.

Buzzards Bay is comprised of various public and privately owned shoreline types, including sand beaches, mixed sand/gravel beaches and rocky shorelines. In general, public sand beaches are heavily utilized by visitors, local residents and fishermen, who are considered sensitive receptors. People use the shoreline primarily for seasonal recreational activities, such as swimming, fishing, or walking. Rocky shorelines are also used for recreational activities, but to a lesser extent.



### **3.0 RESPONSE ACTIONS**

The objectives of the IRA Plan are to address potential Imminent Hazards, if present, and to respond to time-critical conditions that necessitate immediate response actions. These objectives were developed to meet the applicable General Provisions for Immediate Response Actions listed in 310 CMR 40.0411(1), which are to assess the release, threat of release, or site conditions and, where appropriate, contain, isolate, remove or secure a release or threat of release of oil in order to:

- (a) abate, prevent or eliminate any Imminent Hazard to health, safety, public welfare or the environment; and/or
- (b) respond to any other time-critical release, threat of release and/or site conditions.

The IRA response action strategies include:

1. Removing potentially mobile oil (oil that has the potential to mobilize and impact other areas); and
2. Addressing potential Imminent Hazards to human health, public welfare, safety, and the environment, as listed in 310 CMR 40.0321.

IRA activities conducted during this monitoring period included evaluating the presence of buried oil at selected segments, responding to reports of oil from citizens, inspecting segments that have not passed IRAC criteria, and conducting cleanup operations to remove residual oil. Copies of telephone logs and field inspection forms for field activities are attached in Appendix A. Specific information regarding these activities is summarized below.

#### **3.1 EVALUATION OF POTENTIALLY BURIED OIL**

Based upon data from SCAT reports and discussions, MADEP and GeoInsight identified the following eight shoreline segments to be periodically inspected for the presence of potentially buried oil:

<b>Segment Identification</b>	<b>Segment Name</b>
E1-11	Scraggy Neck South
W1F-01	Brandt Beach
W1F-02	Brandt Island West
W2A-12	Rocky Point to East Cove (Fairhaven Town Beach)
W3A-02	Salter's Point West
W3A-04	Salter's Point East
W3A-05	Round Hill Beach West
W3C-04	Barney's Joy (East of Barbed Wire)

On November 24, 2003, segment W3A-06 (Round Hill Beach East) was added to the list of locations to inspect for potentially buried oil based upon concerns raised by MADEP. The location of the segments for buried oil inspections are shown in Figure 2.

As described in the September 15, 2003 IRA Plan, reconnaissance activities were scheduled to be conducted at these segments in January 2004 and April 2004. In addition to the scheduled surveys, inspections of these segments were planned in response to significant storm events with beach erosion and also in response to homeowner complaints. During this monitoring period, significant storm events did not occur, and therefore post-storm checks were not conducted. GeoInsight did not receive reports from homeowners or municipal officials about observing buried oil during this monitoring period. Tables 2a through 2h summarize the buried oil inspection dates and locations, and these tables also includes GPS coordinates of the trenches excavated by the field teams to evaluate for potentially buried oil. Figures 3a through 3e show the locations of trenches excavated at these segments during the inspections for buried oil. Observations from the inspections are included in Table 3.

With the exception of segment W1F-02 (Brandt Island West, which includes Howards Beach and Leisure Shores Beach), oil was not encountered during these inspections. Limited oiling (e.g. tarballs) was encountered at segment W1F-02, and cleanup operations at W1F-02 were conducted on April 1, April 8, April 16, and May 17, 2004 to remove the oil encountered. The oil at this location was encountered primarily on the beach surface either adhered to rock

surfaces or as small tarballs in sand. Small tarballs and oil were also found at shallow depth (within a few inches) of the beach surface. Cleanup activities consisted of oiled sediment and tarball removal, scraping oil from rock surfaces, and removing residual oil on rock surfaces with a wire brushes and rags. Figure 4 shows the approximate locations of cleanup activities conducted at W1F-02.

Due to the oil encountered during the inspections at W1F-02, additional checks for potentially buried oil was conducted in June 2004, and will continue to be conducted at this location. However, buried oil was not encountered at the other segments with potentially buried oil and therefore IRA activities are considered to be complete at these segments and additional checks for potentially buried oil will not be conducted as part of this IRA, unless new conditions of buried oil at these segments are reported to GeoInsight. Results of future inspections at segment W1F-02 will be summarized in the subsequent status reports.

### **3.2 RESPONSE TO CITIZEN CALLS**

After the closure of the incident command post in September 3, 2003, local residents were directed to GeoInsight to call for reports of oil potentially associated with the B.120 spill. Personnel from GeoInsight and, when available, a representative from Gallagher Marine Services, responded to reports of oil within 24 hours of the call. A summary of call reports and responses is included as Table 4 and the locations of the segments where potential oiling issues were reported by citizens are shown in Figure 5. Copies of the call log forms and shoreline inspection forms are included in Appendix A. As it turned out, many of the calls were for conditions not associated with the B120 release (e.g., pieces of coal or black seaweed reported to be oil). B120 oil was found at some locations and cleanup activities were conducted as summarized in subsequent sections of this report.

On March 30, 2004, GeoInsight personnel met with representatives of MADEP, the Brandt Beach Improvement Association, Leisure Shores Association, and the attorney representing the Brandt Beach Improvement and Leisure Shores Associations regarding tarballs and oil reported on the shoreline in this area (segments W1F-01 and W1F-02 in Mattapoisett) by the residents.

The parties inspected Brandt Beach and found pieces of hard asphalt on W1F-01 that had characteristics similar to roadway pavement and was not similar to B120 oil. GeoInsight collected a sample of a tarball provided by the Brandt Beach Improvement Association that was reportedly collected from Brandt Beach for fingerprint analysis to compare to B120 oil. Laboratory analysis indicated that the tarball sample was not B120 oil, and the results were summarized in a memorandum, which is attached in Appendix B. During the inspection of Leisure Shores Beach (W1F-02) on this day, tarballs characteristic of B120 oil were observed near a tidal channel and on the shore of a pond behind the Leisure Shore Beach. This oil was removed on April 1, 2004, and the results of this cleanup are summarized in Section 3.1 above.

### **3.3 SEGMENT INSPECTIONS (FOR SEGMENTS NOT INSPECTED BY THE IRAC TEAM)**

As identified in the IRA Plan, some shoreline segments were not inspected by the IRAC teams prior to September 3, 2003. As described in the February 2004 IRA Status report, most of these segments were inspected by GeoInsight personnel between October 7, 2003 and November 20, 2003. However, GeoInsight was initially denied access to shoreline segments E3-03 and E3-04 (Nashawena and Pasque Island, respectively) by the trustees of these islands. With MADEP assistance, GeoInsight obtained access to the islands in January 2004 from the trustees and GeoInsight conducted inspections of Nashawena and Pasque Island on March 2, 2004. The inspections focused on evaluating the extent of oil along the shorelines facing Buzzards Bay, and limited cleanup of tarballs and tar patties was conducted as encountered during inspections.

On Nashawena Island, the field inspection teams found tar patties ranging from 1 to 12 inches in diameter; the field teams removed tar patties during the inspection. Approximately five 1-gallon plastic bags of tar patties and oiled debris were removed by the inspection team. On Pasque Island, sporadic tar patties were encountered in the upper intertidal zone. One 1-gallon plastic bag of tar patties and oiled debris were removed by the inspection team. The inspection team also observed trace amounts of oil splatter on rock surfaces that was scoured to a black stain.

The field teams also observed substantial amounts of old petroleum pavement throughout E3-03 and E3-04 that was much more weathered than the B120 oil. Based on observations of the weathered character of the oil, the field teams concluded that the pavement was not characteristic of B120 oil, but similar to old No. 6 fuel oil pavement derived from the *Bermuda Star* accident in 1990, as previously identified on the surrounding Elizabeth Islands. The field inspection teams removed visible B120 oil and concluded that the residual oil from the B120 release on Nashawena and Pasque Island was not mobile and did not present an Imminent Hazard. Therefore, these segments met the IRA Plan cleanup criteria and additional immediate response actions were not required.

### **3.4 SEGMENT INSPECTIONS (FOR SEGMENTS THAT DID NOT PASS IRAC WITH FURTHER TREATMENT FEASIBLE)**

In April, May, and June 2004 inspections were conducted at shoreline segments that did not pass IRAC where further treatment was considered to be feasible. The following five segments were identified as segments that did not pass IRAC where further treatment was considered to be feasible:

<b>Segment Number</b>	<b>Segment Name</b>
E1-11	Scraggy Neck South
E1-13	Nye's Neck
W1C-01	Butler's Point
W1E-03	Strawberry Point West
W2B-05	Fort Taber

The locations of these segments are shown on Figure 6.

As summarized in the February 2004 IRA Status Report, inspections were conducted at these segments in 2003 to evaluate oiling conditions relative to the IRA Plan criteria. Oil was found at these segments, typically adhered to rock surfaces, but the residual oil did not warrant cleanup activities relative to the criteria specified in the September 15, 2003 IRA Plan. Additional

inspections were conducted in April 2004 at these segments to evaluate residual oil after one winter season of wave and ice scouring. The inspection at Scraggy Neck South was conducted in conjunction with a check for potentially buried oil at this location (Scraggy Neck South is one of the segments that is scheduled for periodic buried oil inspections). Table 5 summarizes inspections at the segments that did not pass IRAC with further treatment feasible that were conducted during this monitoring period.

The inspection team found little evidence of oil during the April inspections at Nye's Neck, Butler's Point, and Scraggy Neck South, and the residual oil generally consisted of hardened splatter that did not come off to the touch. Therefore, these segments met the original IRAC criteria as well as the September 15, 2004 IRA Plan criteria and additional response actions were not necessary at these segments. Residual oil was found at Strawberry Point West and Fort Taber that warranted additional response actions.

Cleanup and inspections activities were conducted on May 5, May 12, June 3, and June 18, 2004, at Strawberry Point West to remove residual oil from the intertidal zone outside the marsh areas. A total of approximately 950 pounds of oiled rocks and sediment were removed during these cleanup activities. Continued cleanup activity is currently under evaluation.

On June 3, 2004 the area of residual oil at Fort Taber was inspected again with Sara Porter of the New Bedford Conservation Commission to evaluate cleanup options. Cleanup activities, consisting of oiled sediment removal, scraping oil from rock surfaces, and removing residual oil on rock surfaces with a wire brush, was conducted on June 9, 2004. Cleanup activities removed residual oil to a stain on rocks. Cleanup activities for Fort Taber are complete. Refer to Table 5 for additional information on cleanup activities.

### **3.5 OTHER SEGMENT INSPECTIONS AND CLEANUP**

During this monitoring period, GeoInsight and ENTRIX conducted inspections and cleanup activities at other segments not listed above. For example, visual inspections were conducted on March 4 and April 15, 2004 at Pier Beach (segment W3A-03) at Salter's Point in Dartmouth

while the inspection team was en-route to conducting checks for potentially buried oil at the adjacent segments (W3A-02 and W3A-04). In addition, the inspection teams visited other segments where prior MADEP inspections had indicated the presence of residual oil possibly requiring cleanup activities. On June 29, 2004, representatives from GeoInsight, ENTRIX, and MADEP mobilized to these segments, including Converse Point East (W1C-12), Crescent Beach (W1E-04), Sunset Beach (W2A-05), Silver Shell Beach (W2A-06), Gooseberry Neck East (W3D-06), and Gooseberry Neck West (W3D-07). Table 6 summarizes the inspections and cleanup activities conducted at these segments.

### **3.5.1 Report of Oiled Piping Plovers**

On May 27, 2004 GeoInsight received a phone call from Drew Major of the United States Fish & Wildlife Service (USFWS) reporting that the Massachusetts Audubon Society (Audubon) had observed two piping plovers with brown smudges on their feathers that was presumed to be oil from the B120 release. The piping plovers in question were reported at the west end of Little Beach (segment W3C-02) and on the western side of Round Hill Beach (segment W3A-05) in Dartmouth. On May 28, 2004 GeoInsight personnel met with Audubon representatives at Little Beach near Allen's Pond to observe the plovers and inspect the area for oil. The Audubon representatives indicated that there were reportedly two plovers with oil at this location, but only one plover with potential oil was observed during the field visit. The field team observed one plover with a small brown smudge on the underside of the bird, near the right leg. A photograph of the reported plover, provided to GeoInsight by USFWS, is attached in Appendix C.

During the inspection at Little Beach, the field team found a small number of tarballs approximately 75 feet east of the plover nest, in the intertidal area behind the barrier beach on the shore of Allen's Pond. The approximate locations of the tarballs relative to the plover nest is shown on Figure 7. The inspection team found a total of 24 small, flattened tarballs, with a maximum diameter ranging from 0.5 to 3 inches. The total volume of tarballs was less than 500 milliliters (ml). The inspection team dug trenches to check for potential buried oil and oil was not found in the trenches.

On June 8, 2004, the field team visited the western side of Round Hill Beach (segment W3A-05) to investigate the report of the oiled plover at this location by Audubon. Oil was not observed on the plovers at this location, and B120 oil was not observed on the shoreline. The field team also inspected Horseneck Beach East and West (segments WD-04 and -05) to investigate the report of tarballs found by Audubon during shoreline bird evaluations. The field inspection team found materials that appeared to be boat grease and asphalt-based roofing on the shoreline, and this material was removed by the inspection team for disposal. A photograph of this material is included in Appendix C. On this date, the field team observed sample jars containing material presumed to be B120 oil previously collected by Audubon. However, Audubon would not let the field team open the sample jars to inspect the material or collect splits of the samples for laboratory analysis.

### **3.5.2 Report of Oil from Fairhaven Police Dive Team**

On July 14, 2004 GeoInsight received a phone call from representatives from the Town of Fairhaven who indicated that oil was encountered by a police dive team practicing evidence recovery searches off Hoppy's Landing on Long Island (segment W2A-10). According to one of the divers on the team and Fairhaven Police Chief Souza, the team was practicing in shallow water (approximately 4 to 5 feet deep) approximately 30 to 50 feet offshore, between the boat ramp and the causeway. As part of their evidence recovery practice, the team manually sifted through sediment of the floor bottom, and claimed they observed sand-sized oil particles entrained in the water column from the diver's activities. The dive team did not encounter oil patties or "sludge" on the seafloor, although the visibility was limited by the diver's activities. The divers also said they observed an oil sheen on the water surface, although it is unknown if this oil sheen was from the result of the oil particles observed by the dive team or from boat traffic in the vicinity of the practice area.

To evaluate the possible presence of submerged oil in this area, on July 15, 2004 GeoInsight and ENTRIX personnel improvised a modified chain drag system, consisting of a heavy 6 foot length of chain wrapped with absorbent pads, and this chain was dragged through the dive team practice area. Oil was not observed on the absorbent pads, indicating that surficial oil was not present in



the chain drag area. On July 22, 2004, GeoInsight and ENTRIX personnel conducted additional chain drags and collected subtidal sediment samples around the southern portion of Long Island to evaluate the presence of oil particles in the sediment. A total of 13 chain drags were conducted on the east and west sides of the southern portion of Long Island. No sheen was observed on the surface water during the chain drag passes or was evidence of oil observed on the sorbent material upon retrieval of the chain. A total of 20 sediment samples (including a duplicate sample) were collected from nine locations with a petite ponar dredge sampler. The samples were labeled with the prefix W2A10 (which is the shoreline segment number) and identified as ST (subtidal) samples S01 through S09. Sediment samples S06, S07, S08, and S09 were collected in the approximate location of the police dive team practice area. The field team observed a petroleum sheen on the surface of the sediment sample S07; sheens were not observed in the other samples collected. A split sample of S07, labeled “xxx” was collected as a duplicate sample for quality control/ quality assurance purposes.

One set of samples was sent to Groundwater Analytical, Inc. (GWA) in Buzzards Bay, Massachusetts and the second set was sent to B&B Laboratories in College Station, Texas. GWA performed extractable petroleum hydrocarbon (EPH) analysis and target polycyclic aromatic hydrocarbon (PAH) analysis on the 20 samples using MADEP methodology. B&B Laboratories performed total PAH analysis on samples within the area of concern where the divers reported the oiling, and the remaining samples were archived for potential future analysis. Analytical results are summarized in Table 7 and copies of the laboratory reports are included in Appendix D.

EPH hydrocarbon fractions were not detected in the samples, with the exception of the S07 and its duplicate sample, where low concentrations of C<sub>19</sub>-C<sub>36</sub> aliphatic and C<sub>11</sub>-C<sub>22</sub> aromatic hydrocarbons were detected. Low concentrations of PAH were detected in each of the samples. Concentrations of individual PAH in the sediment samples were below the Effects Range-Low (ERL) values for marine sediment listed in the National Oceanographic and Atmospheric Administration (NOAA) Screening Quick Reference Table (SQiRT). However, the concentration of total PAH in the S07 and duplicate sample exceeded the 4 milligrams per kilogram (mg/kg) ERL value. Concentrations of total PAH in the other samples were below the

ERL value of 4 mg/kg. Although these samples were collected below the water surface and are not typically accessible to humans, the results were compared to the Method 1 Risk Characterization Standards for S-1 soil to provide a preliminary evaluation of potential risk to human health. Reported EPH and PAH concentrations were below applicable Method 1 S-1 Risk Characterization standards. It is important to note that these samples were collected adjacent to a heavily-used boat ramp and there may be contribution from petroleum derived from recreational boating uses.

## 4.0 IRA PLAN MODIFICATION

The goal of the proposed cleanup was to remove heavily impacted areas adjacent to a marsh. Field personnel including representatives from GeoInsight, ENTRIX, and MADEP evaluated the cleanup approach in the rocky transitional area between the marsh and the intertidal zone and proposed cleanup activities during the spring and summer of 2004.

### 4.1 MAY 2004 REMEDIAL ACTIVITIES

On May 18 and 19, 2004, GeoInsight and ENTRIX oversaw cleanup activities at the southeastern tip of Long Island, in Fairhaven, Massachusetts, also known as Hoppy's Landing. Cleanup activities were proposed in the April 23, 2004, IRA Plan Modification. The cleanup was proposed to remove oil pavement and sand impacted with oil in areas outside of the marsh.

On May 18, 2004, representatives from ENTRIX and MADEP were onsite to evaluate the location of cleanup activities. Previously, large-scale cleanup work was not conducted in this area due to the proximity of the marsh. Areas proposed for additional cleanup were located in a transitional zone that contained rocky shoreline and less than 10% vegetation. It was concluded that complete removal of oily material (sand and roots) would be too intrusive. Therefore, GeoInsight, ENTRIX, and MADEP decided that only a thin layer of pavement would be removed with hand tools from the substrate surface areas that contained roots in the transitional area adjacent to the marsh.

Rocky areas were cleaned aggressively with hand tools and tarballs were removed by hand along the high tide line above the marsh area. Snare was placed in the major areas cleaned at the end of each work day to capture oil mobilized by cleanup activities. Snare was visibly stained with oil after the first day. Snare appeared to be effective in capturing sheen produced by disturbance of residual impacted sand. Photographs of the remedial activities conducted in May 2004 are included in Appendix E.

Approximately 2,000 pounds of oily sand and small rocks were removed on May 18, 2004. On May 19, 2004, approximately 1,000 pounds were additionally removed. Impacted materials were contained in plastic bags and sealed with duct-tape. Impacted material was transported to American Ref-Fuel (SEMASS) by Fleet Environmental.

#### **4.2 JULY 2004 REMEDIAL ACTIVITIES**

On July 12 through July 16, 2004, GeoInsight and ENTRIX oversaw additional cleanup activities at Hoppy's Landing, as proposed in the July 8, 2004 IRA Plan Modification, as a supplement to an April 23, 2004 IRA Plan Modification. The cleanup was proposed to remove visible oil pavement in areas remaining near marshes or marsh grass vegetation. The pavement within the existing vegetation was not disturbed during the previous cleanup to minimize damage to the marsh. However, evaluation of the May 18 and 19, 2004 cleanup activities from the previous IRA Plan Modification indicated that residual oil present in the marsh areas could potentially affect the recreational use of this shoreline (the subject property is owned by the Town of Fairhaven and is open to the public). Although it was recognized that additional cleanup could damage marsh vegetation to a limited degree, the presence and amount of residual pavement warranted additional cleanup to reduce potential impact to recreational users.

During operations, care was taken to minimize damage to the local marsh plants. Approximately two weeks prior to the cleanup activities, marsh grass (*Spartina alterniflora*) was planted in visibly stressed areas to compensate for potential damage during the upcoming excavation work. The planting was conducted prior to the cleanup activities to maximize the growing season for the new plants and reduce the chances of plant mortality caused by planting too late in the season.

During cleanup operations, pavement was removed from around boulders and cobbles, and from the top 1-2 inches of marsh sediments using full-size and hand shovels. Pavement was primarily found discontinuously in intertidal areas surrounding the Hoppy's Landing peninsula. Sorbent pads were placed where pavement was removed temporarily to capture oil mobilized during cleanup activities. Wire brushes and rags were used to remove splatter and tacky oil on boulders

and cobbles. Tarballs and small areas of pavement were removed by hand along the high tide line and above the marsh area. Snare was placed to capture oil mobilized by cleanup activities, and the snare was visibly stained and replaced at the end of each work day. Absorbent boom was placed around the perimeter of the more heavily impacted areas at the end of the day on July 15 and July 16. A depiction of the work areas is attached as Figure 9.

During operations, oil pavement, tarballs, oil mixed with sediment, and oiled cobbles were placed in large polyethylene bags, sealed with duct tape, and stationed onsite in a roll-off container provided by Fleet Environmental. At the end of each day of the cleanup, the bags were counted. The following bags of material were removed on each day of operation.

<b>Date</b>	<b>Bags of Oiled Debris</b>
July 12, 2004	140
July 13, 2004	78
July 14, 2004	129
July 15, 2004	198
July 16, 2004	69

A total of 614 bags of oiled debris was removed during this cleanup operation and transported in the roll-off container to SEMASS by Fleet Environmental for proper disposal. Waste disposal information is summarized in Section 5.0.

## **5.0 REMEDIATION WASTE**

Remediation waste generated during IRA cleanup activities were transported by Fleet to the American Ref-Fuel (SEMASS) facility in Rochester/West Wareham, Massachusetts for disposal in accordance with applicable requirements. Documentation of remediation waste disposal is included in Appendix G. Waste transport and disposal information is summarized in table 8

## 6.0 SUMMARY AND FUTURE IRA ACTIVITIES

Reconnaissance and cleanup activities were completed during this monitoring period in accordance with the response actions described in the IRA Plan, the September 29, 2003 Errata Sheet, and the April 23, 2004 and July 8, 2004 IRA Plan Modifications. The IRA activities proposed in these plans, including inspections for buried oil, have been completed and buried oil has been found at only one location – segment W1F-02 (Brandt Island West, which includes Howards Beach and Leisure Shores Beach in Mattapoisett). During the next IRA monitoring period, periodic IRA inspections for potentially buried oil will therefore continue at this location. IRA activities at the remaining segments are considered to be complete and additional IRA checks for potentially buried oil will not be conducted. GeoInsight will also continue to respond to reports of oil from citizens as part of ongoing IRA activities. The next IRA status report is due on February 2005 and the IRA activities conducted in the next monitoring period will be summarized in an IRA status report submitted on or before this date.

**TABLE 1**  
**BURIED OIL OBSERVATION INSPECTION SUMMARIES**  
**JANUARY 2004 - JULY 22, 2004**  
**BARGE B120 SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

Segment	Segment Name	Town	Degree of Oiling	Oil Ranking Score	Included in May 2004 RAO
E1-01	Grey Gables-Gilder Road Beach	Bourne	Very Light	<1.00	Yes
E1-02	Mashnee/Hog Islands North	Bourne	Very Light	<1.00	Yes
E1-03	Mashnee Island	Bourne	Very Light	<1.00	Yes
E1-04	Mashnee/Hog Islands South	Bourne	Unoiled	0.00	NA
E1-05	Monument Beach	Bourne	Unoiled	0.00	NA
E1-06	Phinney's Harbor South	Falmouth	Unoiled	0.00	NA
E1-07	Wings Neck	Falmouth	Very Light	1.00	Yes
E1-08	Barlow's Landing	Bourne	Very Light	<1.00	Yes
E1-09	Patuisset	Bourne	Very Light	<1.00	Yes
E1-10	Scraggy Neck North	Bourne	Very Light	1.00	Yes
E1-11	Scraggy Neck South	Bourne	Moderate	1.00	No
E1-12	Megansett Beach	Falmouth	Very Light	1.00	Yes
E1-13	Nye's Neck	Falmouth	Heavy	2.92	No
E1-14	New Silver Beach (Wild Harbor)	Falmouth	Moderate	<1.00	No
E1-15	Crow Point	Falmouth	Heavy	<1.00	No
E1-16	Old Silver Beach	Falmouth	Unoiled	0.00	NA
E2-01	Falmouth Cliffs	Falmouth	Very Light	<1.00	Yes
E2-02	West Falmouth Harbor	Falmouth	Very Light	<1.00	Yes
E2-03	Chappaquoit Beach	Falmouth	Unoiled	0.00	NA
E2-04	Black Beach	Falmouth	Unoiled	0.00	NA
E2-05	Saconneset Beach	Falmouth	Very Light	<1.00	Yes
E2-06	Hamlin's Point Beach	Falmouth	Very Light	<1.00	Yes
E2-07	Wood Neck Beach	Falmouth	Very Light	<1.00	Yes
E2-08	Racing Beach	Falmouth	Very Light	<1.00	Yes
E2-09	Quissett Harbor	Falmouth	Very Light	<1.00	Yes
E2-10	Long Neck to Gansett Point	Woods Hole	Very Light	<1.00	Yes
E2-11	Penzance Island	Woods Hole	Very Light	<1.00	Yes
E3-01	Penikese Island	Gosnold	Very Light	1.00	Yes
E3-02	Cuttyhunk Island	Gosnold	Light	1.72	Yes
E3-03	Nashaweena Island	Gosnold	Very Light	1.00	Yes
E3-04	Pasque Island	Gosnold	Light	1.21	Yes
E3-05	Naushon Island	Gosnold	Light	1.21	Yes
E3-06	Uncatena Island	Gosnold	Moderate	2.00	No
E3-07	Weepecket Islands	Gosnold	Very Light	1.00	Yes
W1B-01	Taylor Point Canal	Buzzards Bay	Unoiled	0.00	NA
W1B-02	Taylor Point North	Buzzards Bay	Unoiled	0.00	NA
W1B-03	Butler Cove	Wareham	Unoiled	0.00	NA
W1B-04	Jacob's Neck	Wareham	Unoiled	0.00	NA
W1B-05	Pleasant Harbor	Wareham	Unoiled	0.00	NA
W1B-06	Broad Cove (+seg 6.5)	Wareham	Unoiled	0.00	NA
W1B-07	Stony Point Dike	Wareham	Very Light	<1.00	Yes
W1B-08	Temples Knob	Wareham	Very Light	<1.00	Yes
W1B-09	Little Harbor Beach	Wareham	Unoiled	0.00	NA
W1B-10	Little Harbor	Wareham	Unoiled	0.00	NA
W1B-11	Bourne Cove	Wareham	Unoiled	0.00	NA
W1B-12	Warren Point (MA)	Wareham	Moderate	3.00	No
W1B-13	Indian Neck	Wareham	Very Light	1.00	Yes
W1B-14	Long Beach	Wareham	Very Light	1.00	Yes
W1B-15	Wareham River East Shore	Wareham	Moderate	1.80	No
W1B-16	Minot Forest Beach	Wareham	Moderate	3.00	Yes
W1B-17	Wareham Neck North	Wareham	Very Light	<1.00	Yes
W1B-18	Pinehurst Beach	Wareham	Unoiled	0.00	NA
W1B-19	Broad Marsh River East	Wareham	Unoiled	0.00	NA
W1B-20	Broad Marsh River West	Wareham	Unoiled	0.00	NA
W1B-21	Swift's Neck Beach	Wareham	Light	2.00	Yes
W1B-22	Swift's Beach	Wareham	Light	2.00	Yes
W1B-23	Mark's Cove	Wareham	Light	2.00	Yes
W1B-24	Nobska Beach	Wareham	Very Light	<1.00	Yes
W1B-25	Cromeset Beach	Wareham	Unoiled	0.00	NA
W1B-26	Briarwood Beach	Wareham	Unoiled	0.00	NA



**TABLE 1**  
**BURIED OIL OBSERVATION INSPECTION SUMMARIES**  
**JANUARY 2004 - JULY 22, 2004**  
**BARGE B120 SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

Segment	Segment Name	Town	Degree of Oiling	Oil Ranking Score	Included in May 2004 RAO
W1B-27	Rose Point	Wareham	Unoiled	0.00	NA
W1B-28	Weweantic River West Shore	Marion	Very Light	<1.00	Yes
W1B-29	Delano Road North	Marion	Unoiled	0.00	NA
W1B-30	Delano Road South	Marion	Unoiled	0.00	NA
W1B-31	Great Hill Point	Marion	Moderate	3.00	No
W1B-32	Piney Point Beach	Marion	Very Light	<1.00	Yes
W1B-33	Piney Point South	Marion	Moderate	3.00	No
W1C-00	Bird Island	Marion	Very Light	1.00	Yes
W1C-01	Butler's Point	Marion	Moderate	3.00	No
W1C-02	Planting Island Causeway	Marion	Heavy	3.00	No
W1C-03	Planting Island Cove	Marion	Unoiled	0.00	NA
W1C-04	Blankinship Cove	Marion	Moderate	1.46	No
W1C-05	Sippican Harbor East	Marion	Moderate	3.00	No
W1C-06	Hammet's Cove Beach	Marion	Unoiled	0.00	NA
W1C-07	Little Neck	Marion	Unoiled	0.00	NA
W1C-08	Tabor Academy Beach	Marion	Unoiled	0.00	NA
W1C-09	Marion Town Beach	Marion	Unoiled	0.00	NA
W1C-10	Silvershell Beach	Marion	Moderate	<1.00	No
W1C-11	Sippican Harbor West	Marion	Very Light	<1.00	No
W1C-12	Converse Point East	Marion	Moderate	2.63	No
W1C-13	Little Ram Island	Marion	Very Light	<1.00	Yes
W1D-01	Aucoot Cove	Mattapoissett	Moderate	1.46	No
W1D-02	Harbor Beach	Mattapoissett	Very Light	<1.00	Yes
W1D-03	Holly Woods / Hiller Cove	Mattapoissett	Moderate	2.00	No
W1D-04	Holly Woods / Peases Point	Mattapoissett	Moderate	2.23	No
W1D-05	Point Connett Beach	Mattapoissett	Heavy	2.00	No
W1E-01	Nye Cove / Strawberry Cove	Mattapoissett	Light	1.33	No
W1E-02	Strawberry Cove	Mattapoissett	Light	1.46	No
W1E-03	Strawberry Point West	Mattapoissett	Moderate	2.28	No
W1E-04	Crescent Beach	Mattapoissett	Heavy	3.92	No
W1E-05	Mattapoissett Harbor East	Mattapoissett	Moderate	1.26	No
W1E-06	Mattapoissett Town Beach	Mattapoissett	Moderate	3.00	No
W1F-01	Brandt Beach	Mattapoissett	Heavy	2.49	No
W1F-02	Brandt Island West	Mattapoissett	Heavy	3.34	No
W1F-03	Brandt Island East	Mattapoissett	Heavy	3.07	No
W1F-04	Brandt Island Cove	Mattapoissett	Heavy	2.19	No
W1F-05	Mattapoissett Neck West	Mattapoissett	Heavy	3.77	No
W1F-06	Mattapoissett Neck South	Mattapoissett	Heavy	2.74	No
W1F-07	Mattapoissett Shores	Mattapoissett	Moderate	2.94	No
W1F-08	Mattapoissett Neck East	Mattapoissett	Heavy	1.08	No
W1F-09	Mattapoissett Harbor North	Mattapoissett	Moderate	1.00	No
W1G-00	Ram Island	Mattapoissett	Heavy	4.00	No
W2A-01	Fort Phoenix	Fairhaven	Moderate	1.79	No
W2A-02	Harbor View	Fairhaven	Heavy	3.00	No
W2A-03	Pope's Beach	Fairhaven	Moderate	3.00	No
W2A-04	Manhattan Ave	Fairhaven	Heavy	3.65	No
W2A-05	Sunset Beach	Fairhaven	Moderate	2.00	No
W2A-06	Silver Shell Beach	Fairhaven	Light	2.00	No
W2A-07	Scoticut Neck West	Fairhaven	Heavy	2.17	No
W2A-08	Wilbur Point	Fairhaven	Moderate	2.40	No
W2A-09	Scoticut Neck East	Fairhaven	Heavy	3.00	No
W2A-10	Long Island and Causeway South	Fairhaven	Heavy	3.44	No
W2A-11	West Island West	Fairhaven	Heavy	3.95	No
W2A-12	Rocky Point to East Cove	Fairhaven	Heavy	1.19	No
W2A-13	East Cove	Fairhaven	Light	1.00	No
W2A-14	Pine Creek to North Point	Fairhaven	Moderate	3.00	No
W2A-15	West Island North	Fairhaven	Light	1.10	Yes
W2A-16	Long Island and Causeway North	Fairhaven	Very Light	<1.00	Yes
W2A-17	Scoticut Neck Northeast (Marsh)	Fairhaven	Very Light	<1.00	Yes

**TABLE 1**  
**BURIED OIL OBSERVATION INSPECTION SUMMARIES**  
**JANUARY 2004 - JULY 22, 2004**  
**BARGE B120 SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

Segment	Segment Name	Town	Degree of Oiling	Oil Ranking Score	Included in May 2004 RAO
W2A-18	Little Bay (Marsh)	Fairhaven	Very Light	<1.00	Yes
W2A-19	Shaw Cove	Fairhaven	Heavy	2.23	No
W2B-01	Round Hill to Barekneed Rocks	Dartmouth	Light	2.00	Yes
W2B-02	Padanaram Harbor	Dartmouth	Light	<1.00	Yes
W2B-03	Clarke's Cove West	Dartmouth/New Bedford	Very Light	1.00	Yes
W2B-04	Clarke's Cove East	New Bedford	Light	1.60	Yes
W2B-05	Fort Taber	New Bedford	Moderate	1.44	No
W2B-06	Clarke's Point East	New Bedford	Very Light	<1.00	Yes
W2B-09	New Bedford Harbor (inner)	New Bedford	Unoiled	0.00	NA
W3A-01	Mishaum Point East	Dartmouth	Heavy	1.05	No
W3A-02	Salter's Point West	Dartmouth	Moderate	3.00	No
W3A-03	Pier Beach (Salter's Point)	Dartmouth	Moderate	2.44	No
W3A-04	Salter's Point East	Dartmouth	Light	2.00	No
W3A-05	Round Hill Beach West	Dartmouth	Heavy	2.14	No
W3A-06	Round Hill Beach East	Dartmouth	Heavy	2.77	No
W3B-01	Slocum's River	Dartmouth	Light	1.37	Yes
W3B-02	Mishaum Point West	Dartmouth	Heavy	3.65	No
W3C-01	East Beach (Westport)	Westport	Light	2.00	Yes
W3C-02	Little Beach	Dartmouth	Light	1.00	Yes
W3C-03	Barney's Joy (W of barbed)	Dartmouth	Heavy	4.00	No
W3C-04	Barney's Joy (E of barbed)	Dartmouth	Heavy	2.60	No
W3C-05	Demarest Lloyd State Park Beach	Dartmouth	Very Light	1.00	Yes
W3C-06	Demarest Lloyd State Park Marsh	Dartmouth	Very Light	1.00	No
W3D-01	Quicksand Point	Westport	Very Light	1.00	Yes
W3D-02	Cockeast Pond Beach	Westport	Light	2.00	Yes
W3D-03	Elephant Rock Beach	Westport	Light	2.00	Yes
W3D-04	Horseneck Beach West	Westport	Moderate	2.18	Yes
W3D-05	Horseneck Beach East	Westport	Light	1.71	Yes
W3D-06	Gooseberry Neck East	Westport	Moderate	2.06	Yes
W3D-07	Gooseberry Neck West	Westport	Moderate	2.05	No

**TABLE 2a**  
**BURIED OIL TRENCH LOCATIONS**  
**BOUCHARD B120 OIL SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

<b>E1-11 Scraggy Neck South, Bourne</b>						
Date	Low Tide	Objectives	Location	Recorded Name	GPS Coordinates (Latitude)	GPS Coordinates (Longitude)
11/11/2003	2:57 PM	Buried Oil Inspection	start/end	E111	41°39.744' N	70°38.969' W
			end	E111-END	41°39.747' N	70°38.237' W
			trench 1	E111-T1	41°39.686' N	70°38.863' W
			trench 2	E111-T2	41°39.577' N	70°38.645' W
3/3/2004	11:24 AM	Buried Oil Inspection	trench 1	3404T1	41°39.846' N	70°38.000' W
			trench 2	3404T2	41°39.843' N	70°38.072' W
			trench 3	3404T3	41°39.781' N	70°38.100' W
			trench 4	3404T4	41°39.720' N	70°38.279' W
			trench 5	3404T5	41°39.665' N	70°38.844' W
			trench 6	3404T6	41°39.714' N	70°38.921' W
4/6/2004	3:05 PM	Buried Oil Inspection	trench 1	131	41°39.793' N	70°37.845' W
			trench 2	132	41°39.820' N	70°37.939' W
			trench 3	133	41°39.842' N	70°37.070' W
			trench 4	134	41°39.722' N	70°38.282' W
			trench 5	135	41°39.575' N	70°38.646' W
			trench 6	136	41°39.669' N	70°38.838' W
			trench 7	137	41°39.706' N	70°38.898' W
			trench 8	138	41°39.733' N	70°38.957' W
			trench 9	139	41°39.748' N	70°38.982' W
			trench 10	140	41°39.778' N	70°39.047' W
			trench 11	141	41°39.779' N	70°39.058' W
			trench 12	142	41°39.813' N	70°39.109' W

**TABLE 2b  
BURIED OIL TRENCH LOCATIONS  
BOUCHARD B120 OIL SPILL  
BUZZARDS BAY, MASSACHUSETTS**

W1F-01 an Brandt Island and Brandt Island West, Mattapoissett						
Date	Low Tide	Objectives	Location	Recorded Name	GPS Coordinates (Latitude)	GPS Coordinates (Longitude)
11/5/2003	11:39 AM	Buried Oil Inspection	start	W1F02	41°37.740' N	70°49.324' W
			oil observed	W1F02 BO	41°37.700' N	70°49.536' W
			end	W1F02 END	41°37.470' N	70°49.021' W
			trench 1	W1F02 T1	41°37.720' N	70°49.435' W
			trench 2	W1F02 T2	41°37.717' N	70°49.447' W
			trench 3	W1F02 T3	41°37.692' N	70°49.523' W
			trench 4	W1F02 T4	41°37.713' N	70°49.321' W
			trench 5	W1F02 T5	41°37.600' N	70°49.160' W
11/7/2003	12:37 PM	Cleanup	start	W1F01	41°37.498' N	70°49.968' W
			trench 1	W1F01-2B	41°37.665' N	70°49.529' W
			trench 2	W1F01-JS1	41°37.512' N	70°49.793' W
			trench 3	W1F02 JS1	41°37.712' N	70°49.310' W
			trench 4	W1F02 JS2	41°37.487' N	70°49.160' W
			trench 5	W1F02 JS3	41°37.442' N	70°49.092' W
			trench 6	W1F02 JS4	41°37.423' N	70°49.042' W
			end	W1F01end	41°37.687' N	70°49.515' W
1/5/2004	12:31 PM	Buried Oil Inspection	start	1504S1	41°37.494' N	70°49.955' W
			trench 1	1504T1	41°37.477' N	70°50.047' W
			trench 2	1504T2	41°37.488' N	70°50.023' W
			end	1504E1	41°37.719' N	70°50.047' W
4/5/2004	2:27 PM	Buried Oil Inspection	trench 1	124	41°37.580' N	70°49.641' W
			trench 2	125	41°37.691' N	70°49.521' W
			trench 3	126	41°37.709' N	70°49.447' W
			trench 4	129	41°37.598' N	70°49.157' W
4/8/2004	4:27 PM	Cleanup	center of cleaned	NA	41°37.694N	70°49.518 W
4/16/2004	12:56 PM	Cleanup cleanup area between "197-200"	northeast point	197	41°37.687' N	70°49.521' W
			northwest point	198	41°37.692' N	70°49.517' W
			southwest point	199	41°37.700' N	70°49.525' W
			southeast point	200	41°37.700' N	70°49.525' W
			center of cleanup	205	41°37.694' N	70°49.479' W
		cleanup area between "206-207"	east point	206	41°37.704' N	70°49.482' W
			west point	207	41°37.695' N	70°49.505' W
			cleanup area between "208-209"	west point	208	41°37.714' N
		east point		209	41°37.721' N	70°49.389' W
		6/2/2004	1:31 PM	Buried Oil Inspection	trench 1 and 2	148
trench 3	149				41°37.695' N	70°49.525' W
trench 4	154				41°37.678' N	70°49.456' W
trench 5	155				41°37.704' N	70°49.469' W
trench 6	157				41°37.713' N	70°49.439' W
trench 7	158				41°37.717' N	70°49.449' W
trench 8	159				41°37.722' N	70°49.524' W
trench 9	150				41°37.695' N	70°49.527' W
trench 10	151				41°37.700' N	70°49.509' W

NA: Not Available

**TABLE 2c  
BURIED OIL TRENCH LOCATIONS  
BOUCHARD B120 OIL SPILL  
BUZZARDS BAY, MASSACHUSETTS**

<b>W2A-12 Fairhaven Town Beach, Fairhaven</b>						
Date	Low Tide	Objectives	Location	Recorded Name	GPS Coordinates (Latitude)	GPS Coordinates (Longitude)
9/23/2003	12:38 PM	Buried Oil Inspection	trench 1	NA	41°34.957' N	70°49.447' W
			trench 2	NA	41°34.978' N	70°49.594' W
			trench 3	NA	41°34.978' N	70°49.594' W
11/4/2003	11:04 AM	Buried Oil Inspection	start	W2A-12	41°35.012' N	70°49.451' W
			trench 1	T1	41°35.371' N	70°49.039' W
			trench 2	T2	41°35.363' N	70°49.058' W
			trench 3	T3	41°35.361' N	70°49.068' W
			trench 4	T4	41°35.359' N	70°49.079' W
			trench 5	T5	41°35.355' N	70°49.092' W
			trench 6	T6	41°35.351' N	70°49.112' W
			trench 7	T7	41°35.347' N	70°49.125' W
			trench 8	T8	41°35.342' N	70°49.136' W
			trench 9	T9	41°35.332' N	70°49.152' W
			trench 10	T10	41°35.329' N	70°49.165' W
			trench 11	T11	41°35.321' N	70°49.179' W
			trench 12	T12	41°35.304' N	70°49.202' W
			trench 13	T13	41°35.286' N	70°49.226' W
			trench 14	T14	41°35.270' N	70°49.247' W
			trench 15	T15	41°35.242' N	70°49.266' W
end	W2A-12 END	41°35.374' N	70°49.032' W			
1/6/2004	1:08 PM	Buried Oil Inspection	start	1604S1	41°35.029' N	70°49.311' W
			trench 1	1604T1	41°35.394' N	70°49.023' W
			trench 2	1604T2	41°35.368' N	70°49.043' W
			trench 3	1604T3	41°35.358' N	70°49.104' W
			trench 4	1604T4	41°35.345' N	70°49.138' W
			trench 5	1604T5	41°35.320' N	70°49.186' W
			trench 6	1604T6	41°35.301' N	70°49.214' W
			trench 7	1604T7	41°35.272' N	70°49.251' W
			trench 8	1604T8	41°35.240' N	70°49.270' W
			trench 9	1604T9	41°35.204' N	70°49.292' W
			trench 10	1604T10	41°35.157' N	70°49.505' W
end	1604E	41°35.403' N	70°49.012' W			
3/22/2004	11:30 AM	Post Storm Evaluation	trench 1	32204T1	41°35.356' N	70°49.106' W
			trench 2	32204T2	41°35.336' N	70°49.155' W
			trench 3	32204T3	41°35.320' N	70°49.187' W
			trench 4	32204T4	41°35.294' N	70°49.225' W
			trench 5	32204T5	41°35.258' N	70°49.257' W
			trench 6	32204T6	41°35.218' N	70°49.287' W
4/7/2004	3:50 PM	Buried Oil Inspection	trench 1	143	41°35.343' N	70°49.140' W
			trench 2	144	41°35.327' N	70°49.171' W
			trench 3	145	41°35.297' N	70°49.213' W
			trench 4	146	41°35.270' N	70°49.242' W
			trench 5	147	41°35.238' N	70°49.274' W
			trench 6	148	41°35.205' N	70°49.288' W
			trench 7	149	41°35.131' N	70°49.306' W

NA: Not Available

**TABLE 2d  
BURIED OIL TRENCH LOCATIONS  
BOUCHARD B120 OIL SPILL  
BUZZARDS BAY, MASSACHUSETTS**

<b>W3A-02      Salters Point West, Dartmouth</b>						
Date	Low Tide	Objectives	Location	Recorded Name	GPS Coordinates (Latitude)	GPS Coordinates (Longitude)
11/6/2003	12:08 PM	Buried Oil Inspection	start/end	W3A-2S	41°31.768' N	70°57.049' W
			end (west)	W3A-2END	41°31.656' N	70°57.285' W
			trench 1	T03	41°31.652' N	70°57.253' W
			trench 2	T04	41°31.691' N	70°57.213' W
			start (east)	W3A02J	41°31.757' N	70°57.051' W
			end (east)	W3A02J-END	41°31.764' N	70°57.031' W
			trench 3	W3A02J-T1	41°31.796' N	70°57.935' W
			trench 4	W3A02J-T2	41°31.768' N	70°57.017' W
			trench 5	W3A02J-T3	41°31.771' N	70°56.993' W
			trench 6	W3A02J-T4	41°31.775' N	70°56.978' W
12/10/2003	2:57 PM	Post-Storm Evaluation	start (end W3A-04)	12-10S3	41°31.766' N	70°56.904' W
			sheen spotted	12-10SPO	41°31.754' N	70°57.039' W
			trench 1	1210T6	41°31.755' N	70°57.044' W
			trench 2	1210T7	41°31.686' N	70°57.222' W
			trench 3	1210T8	41°31.685' N	70°57.218' W
1/19/2004	11:25 AM	Buried Oil Inspection	trench 1	W3A02-0T1	41°31.664' N	70°57.254' W
			trench 2	W3A02-0T2	41°31.698' N	70°57.203' W
			trench 3	W3A02-0T3	41°52.961' N	70°94.969' W
3/23/2004	1:30 PM	Post-Storm Evaluation	trench 1	32304T-7	41°31.656' N	70°57.268' W
			trench 2	32304T-8	41°31.717' N	70°57.160' W
			trench 3	32304T-9	41°31.751' N	70°57.059' W
			trench 4	32304T-10	41°31.776' N	70°56.981' W
4/15/2004	12:13 PM	Buried Oil Inspection	trench 1	182	41°31.655' N	70°57.318' W
			trench 2	183	41°31.663' N	70°57.258' W
			trench 3	184	41°31.703' N	70°57.157' W
			trench 4	185	41°31.773' N	70°57.099' W
			trench 5	186	41°31.761' N	70°57.091' W
			trench 6	187	41°31.779' N	70°56.944' W

**TABLE 2e**  
**BURIED OIL TRENCH LOCATIONS**  
**BOUCHARD B120 OIL SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

<b>W3A-04      Salters Point East, Dartmouth</b>						
Date	Low Tide	Objectives	Location	Recorded Name	GPS Coordinates (Latitude)	GPS Coordinates (Longitude)
11/6/2003	12:08 PM	Buried Oil Inspection	start/end	W3A-42 START	41°32.246' N	70°56.814' W
			end (start W3A-02)	W3A-4 END	41°31.812' N	70°56.878' W
			trench 1	T01	41°32.210' N	70°56.820' W
			trench 2	T02	41°32.126' N	70°56.837' W
12/10/2003	2:57 PM	Post-Storm Evaluation (trenching not feasible- weather conditions)	start	12-10S2	41°32.090' N	70°56.853' W
			end (start W3A-02)	12-10S3	41°31.766' N	70°56.904' W
3/4/2004	12:08 PM	Buried Oil Inspection	trench 1	3304T1	41°32.174' N	70°56.807' W
			trench 2	3304T2	41°32.146' N	70°56.828' W
			trench 3	3304T3	41°32.086' N	70°56.807' W
4/15/2004	12:13 PM	Buried Oil Inspection (trenching not feasible- weather conditions)	NA	NA	NA	NA

NA: Not Available

**TABLE 2f  
BURIED OIL TRENCH LOCATIONS  
BOUCHARD B120 OIL SPILL  
BUZZARDS BAY, MASSACHUSETTS**

<b>W3A-05 Round Hill Beach West, Dartmouth</b>						
Date	Low Tide	Objectives	Location	Recorded Name	GPS Coordinates (Latitude)	GPS Coordinates (Longitude)
9/23/2003	12:38 PM	Post-Storm Evaluation	trench 1	NA	41°32.321' N	70°56.724' W
			trench 2	NA	41°32.403' N	70°56.506' W
11/6/2003	12:08 PM	Buried Oil Evaluation	start	W3A-05	41°32.430' N	70°56.307' W
			end	W3A-05END	41°32.224' N	70°56.774' W
			trench 1	W3A05-T1	41°32.434' N	70°56.324' W
			trench 2	W3A05-T2	41°32.430' N	70°56.367' W
			trench 3	W3A05-T3	41°32.420' N	70°56.487' W
			trench 4	W3A05-T4	41°32.413' N	70°56.580' W
			trench 5	W3A05-T5	41°32.357' N	70°56.666' W
			trench 6	W3A05-T6	41°32.302' N	70°56.734' W
12/10/2003	2:57 PM	Post-Storm Evaluation	start	12-10S4	41°32.437' N	70°56.306' W
			trench 1/ end	12-10T9	41°32.224' N	70°56.769' W
			trench 2	12-10T10	41°32.367' N	70°56.645' W
1/22/2004	2:50 PM	Buried Oil Evaluation	trench 1	NA	41°32.315' N	70°56.711' W
			trench 2	NA	41°32.382' N	70°56.613' W
			trench 3	NA	41°32.417' N	70°56.494' W
			trench 4	NA	41°32.432' N	70°56.344' W
			trench 5	NA	41°32.435' N	70°56.093' W
3/22/2004	2:20 PM	Post-Storm Evaluation	trench 1	NA	41°32.241' N	70°56.772' W
			trench 2	NA	41°32.260' N	70°56.772' W
			trench 3	NA	41°32.289' N	70°56.739' W
			trench 4	NA	41°32.337' N	70°56.687' W
			trench 5	NA	41°32.383' N	70°56.613' W
			trench 6	NA	41°32.427' N	70°56.425' W
4/15/2004	12:13 PM	Buried Oil Inspection	trench 1	192	41°32.427' N	70°56.344' W
			trench 2	193	41°32.422' N	70°56.473' W
			trench 3	194	41°32.383' N	70°56.612' W
			trench 4	195	41°32.338' N	70°56.692' W
			trench 5	196	41°32.234' N	70°56.786' W

NA: Not Available



**TABLE 2g**  
**BURIED OIL TRENCH LOCATIONS**  
**BOUCHARD B120 OIL SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

<b>W3A-06 Round Hill Beach East, Dartmouth</b>						
Date	Low Tide	Objectives	Location	Recorded Name	GPS Coordinates (Latitude)	GPS Coordinates (Longitude)
12/4/2003	11:13 AM	Buried Oil Inspection	start/end	W3A06	41°39.752' N	70°48.867' W
			end	W3A06-END	41°32.424' N	70°56.245' W
			trench 1	W3A06-T1	41°32.422' N	70°55.926' W
			trench 2	W3A06-T2	41°32.419' N	70°55.923' W
			trench 3	W3A06-T3	41°32.428' N	70°55.978' W
			trench 4	W3A06-T4	41°32.440' N	70°56.035' W
			trench 5	W3A06-T5	41°32.442' N	70°56.086' W
12/10/2003	2:57 PM	Post-Storm Evaluation	start	12-10S	41°35.740' N	70°54.586' W
			trench 1/end	12-10T1	41°32.421' N	70°56.255' W
			trench 2	12-10T2	41°32.430' N	70°56.177' W
			trench 3	12-10T3	41°32.435' N	70°56.106' W
			trench 4	12-10T4	41°32.431' N	70°56.064' W
			trench 5	12-10T5	41°32.430' N	70°55.979' W
1/22/2004	11:15 AM	Post-Storm Evaluation	trench 1	NA	41°30.607' N	70°59.362' W
			trench 2	NA	41°30.619' N	70°59.412' W
			trench 3	NA	41°30.636' N	70°59.412' W
			trench 4	NA	41°30.661' N	70°59.546' W
			trench 5	NA	41°30.718' N	70°59.937' W
3/22/2004	1:40 PM	Post-Storm Evaluation	trench 1	32204-T1	41°32.422' N	70°55.913' W
			trench 2	32204-T2	41°32.427' N	70°55.931' W
			trench 3	32204-T3	41°32.441' N	70°56.023' W
			trench 4	32204-T4	41°32.436' N	70°56.108' W
			trench 5	32204-T5	41°32.429' N	70°56.240' W
4/15/2004	12:13 PM	Buried Oil Inspection	trench 1	189	41°32.430' N	70°56.006' W
			trench 2	190	41°32.439' N	70°56.090' W
			trench 3	191	41°32.425' N	70°56.0240' W

NA: Not Available

**TABLE 2h  
BURIED OIL TRENCH LOCATIONS  
BOUCHARD B120 OIL SPILL  
BUZZARDS BAY, MASSACHUSETTS**

<b>W3C-04 Barney's Joy, Dartmouth</b>						
Date	Low Tide	Objectives	Location	Recorded Name	GPS Coordinates (Latitude)	GPS Coordinates (Longitude)
10/22/2003	11:47 AM	Buried Oil Inspection	trench 1	NA	41°31.036' N	70°59.020' W
			trench 2	NA	41°30.791' N	70°58.922' W
			trench 3	NA	41°30.571' N	70°59.269' W
11/19/2003	9:27 AM	Buried Oil Inspection	trench 1	NA	41°30.572' N	70°59.247' W
			trench 2	NA	41°30.574' N	70°59.286' W
			trench 3	NA	41°30.591' N	70°59.324' W
			trench 4	NA	41°30.605' N	70°59.371' W
			trench 5	NA	41°30.609' N	70°59.402' W
12/11/2003	2:57 PM	Post-Storm Evaluation	start	1211S	41°30.731' N	70°59.520' W
			end	1211E	41°30.732' N	70°59.523' W
			trench 1	1211T1	41°30.534' N	70°59.005' W
			trench 2	1211T2	41°30.536' N	70°59.019' W
			trench 3	1211T3	41°30.548' N	70°59.075' W
			trench 4	1211T4	41°30.597' N	70°59.325' W
			trench 5	1211T5	41°30.598' N	70°59.326' W
1/22/2004	11:15 AM	Buried Oil Inspection	trench 1	NA	41°30.607' N	70°59.362' W
			trench 2	NA	41°30.619' N	70°59.412' W
			trench 3	NA	41°30.636' N	70°59.412' W
			trench 4	NA	41°30.661' N	70°59.546' W
			trench 5	NA	41°30.718' N	70°59.937' W
3/23/2004	11:45 AM	Post-Storm Evaluation	trench 1	32304T-1	41°30.603' N	70°59.357' W
			trench 2	32304T-2	41°30.615' N	70°59.417' W
			trench 3	32304T-3	41°30.633' N	70°59.485' W
			trench 4	32304T-4	41°30.670' N	70°59.602' W
			trench 5	32304T-5	41°30.695' N	70°59.785' W
			trench 6	32304T-6	41°30.725' N	70°59.999' W
4/14/2004	11:35 PM	Buried Oil Inspection	start	166	41°31.095' N	70°58.980' W
			trench 1	167	41°30.536' N	70°58.981' W
			trench 2	168	41°30.535' N	70°58.998' W
			trench 3	170	41°30.536' N	70°59.625' W
			trench 4	172	41°30.536' N	70°59.029' W
			trench 5	173	41°30.548' N	70°59.007' W
			trench 6	174	41°30.551' N	70°59.111' W
			trench 7	175	41°30.552' N	70°59.110' W
			trench 8	176	41°30.566' N	70°59.111' W
			spot checks	177	41°30.591' N	70°59.289' W
			spot checks	178	41°30.590' N	70°59.311' W
			trench 9	179	41°30.591' N	70°59.321' W
			spot checks	180	41°30.591' N	70°59.318' W
end	181	41°30.661' N	70°59.554' W			

NA: Not Available

**TABLE 3  
BURIED OIL OBSERVATION INSPECTION SUMMARIES  
JANUARY 2004 - JULY 22, 2004  
BARGE B120 SPILL  
BUZZARDS BAY, MASSACHUSETTS**

Inspection Date	Segment Number	Segment Name	Town	Degree of Oiling	Oil Ranking	Objective	Inspection Summary	IRA Criteria Met?
1/5/2004	W1F-01	Brandt Beach	Mattapoisett	Heavy	2.49	Shoreline inspection and potential buried oil check	Splatter scoured to stain on boulders. One tarball under rock removed. Buried oil not observed.	Yes (continued checks for buried oil)
1/5/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	3.34	Shoreline inspection and potential buried oil check	Oil not encountered.	Yes (continued checks for buried oil)
1/6/2004	W2A-12	Rocky Point to East Cove (Town Beach)	Fairhaven	Heavy	1.19	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 10 trenches.	Yes (continued checks for buried oil)
1/19/2004	W3A-02	Salter's Point West	Dartmouth	Moderate	3.00	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 3 trenches.	Yes (continued checks for buried oil)
1/20/2004	E1-11	Scraggy Neck South	Bourne	Moderate	1.00	Shoreline inspection and potential buried oil check	Incomplete inspection due to unfeasible weather conditions.	Pending
1/22/2004	W3A-04	Salter's Point East	Dartmouth	Light	2.00	Shoreline inspection and potential buried oil check	Incomplete due to unfeasible weather conditions.	Pending
1/22/2004	W3A-05	Round Hill Beach West	Dartmouth	Heavy	2.14	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 3 trenches- unfeasible weather conditions.	Yes (continued checks for buried oil)
1/22/2004	W3A-06	Round Hill Beach East	Dartmouth	Heavy	2.77	Shoreline inspection and potential buried oil check	Incomplete due to unfeasible weather conditions.	Pending
1/22/2004	W3C-04	Barney's Joy	Dartmouth (east of barbed wire)	Heavy	2.60	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 5 trenches.	Yes (continued checks for buried oil)
3/3/2004	E1-11	Scraggy Neck South	Bourne	Moderate	1.00	Shoreline inspection and potential buried oil check	Very sporadic, trace splatter scoured to stain on boulders throughout segment. Advanced 6 trenches. Buried oil not observed.	Yes
3/4/2004	W3A-04	Salter's Point East	Dartmouth	Light	2.00	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 5 trenches.	Yes (continued checks for buried oil)
3/22/2004	W3A-05	Round Hill Beach West	Dartmouth	Heavy	2.14	Shoreline inspection and potential buried oil check	Two 1-2" diameter ar patties removed. Advanced 3 trenches. Buried oil not observed.	Yes (continued checks for buried oil)
3/22/2004	W3A-06	Round Hill Beach East	Dartmouth	Heavy	2.77	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 3 trenches.	Yes (continued checks for buried oil)
3/30/2004	W1F-01	Brandt Beach	Mattapoisett	Heavy	2.49	Shoreline inspection	Tarballs observed in marsh area and on beach near the channel on Leisure Shore Beach-warrants cleanup activities. Oil-coated cobbles near groin with stream underneath. Some splatter scoured to stain on boulders of groin and on cobbles at Brandt Beach.	Cleanup activities warranted
4/1/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	3.34	Cleanup activities and potential buried oil check	Removed tarballs including (1) middle and upper intertidal zone on the pond (north of the dunes located at Leisure Shores Beach; and (2) east and west banks of the main channel and middle and upper intertidal zones on Howard Beach.	Continued buried oil inspections recommended
4/5/2004	W1F-01	Brandt Beach	Mattapoisett	Heavy	2.49	Shoreline inspection and potential buried oil check	Very trace splatter observed scoured to stain on cobbles (pea to quarter-soze) primarily in upper intertidal zone. No buried oil observed.	Yes (continued checks for buried oil)
4/5/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	1/3/1900	Post cleanup inspection (from cleanup on 4/1/04)	Further cleanup warranted- tarballs 2-3" in diameter observed on shoreline. Tar patties 2-4" in diameter along channel banks and upper intertidal zone. Sporadic "pinches" of oil on surface of shoreline marsh (maximum 1" diameter). Staining on cobbles in upper intertidal zone and on jetty rocks. Very trace splatter (pea-size-4" diameter) toward causeway to Brandt Island.	Cleanup activities warranted
4/6/2004	E1-11	Scraggy Neck South	Bourne	Moderate	1.00	Shoreline inspection and potential buried oil check	One 6"x6" area of sticky black oil removed from grass along shoreline- may not be Bouchards B120 oil. One oil wrack patty (3" diameter) removed from upper intertidal wrack line. Advanced 12 trenches. No buried oil observed.	Yes
4/7/2004	W2A-12	Rocky Point to East Cove (Town Beach)	Fairhaven	Heavy	1.19	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 7 trenches.	Yes
4/8/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	3.34	Cleanup activities	Buried oil 2-3" below surface (40' x 70' area) in sand east of channel on Howards Beach, consisting of sporadic sticky patties 2-8" in diameter. Hardened tarballs also removed from surface. Worked extensively, removed approximately 100 lbs of oil, however further cleanup activities warranted. Marsh cleaning pending.	Cleanup activities warranted

TABLE 3  
 BURIED OIL OBSERVATION INSPECTION SUMMARIES  
 JANUARY 2004 - JULY 22, 2004  
 BARGE B120 SPILL  
 BUZZARDS BAY, MASSACHUSETTS

Inspection Date	Segment Number	Segment Name	Town	Degree of Oiling	Oil Ranking	Objective	Inspection Summary	IRA Criteria Met?
4/14/2004	W3C-04	Barney's Joy	Dartmouth (east of barbed wire)	Heavy	2.60	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 9 trenches and 3 spot check areas.	Yes
4/15/2004	W3A-02	Salter's Point West	Dartmouth	Moderate	3.00	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 6 trenches.	Yes
4/15/2004	W3A-04	Salter's Point East	Dartmouth	Light	2.00	Shoreline inspection and potential buried oil check	Sporadic, very trace splatter scoured to stain on boulders observed.	Yes
4/15/2004	W3A-04	Salter's Point East	Dartmouth	Light	2.00	Shoreline inspection and potential buried oil check	Sporadic, very trace splatter scoured to stain on boulders observed.	Yes
4/15/2004	W3A-05	Round Hill Beach West	Dartmouth	Heavy	2.14	Shoreline inspection and potential buried oil check	Surficial or buried oil not observed. Advanced 5 trenches.	Yes
4/16/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	3.34	Post cleanup inspection and potential buried oil check	(1) Area of past cleanup (4/8/04) raked extensively, advanced 15 trenches 10-50' long, and removed oil encountered. Surficial tarballs no more than 1" deep (2cm-2" diameter) and splatter stuck to small shells removed. (2) Beach raked from channel and eastward to first jetty, and several sporadic spot checks advanced. Some surficial tarballs (2cm-1" diameter) found and removed. (3) West of groin with stream beneath, 3'x3' area, 1-2" deep in middle intertidal zone, buried oil vein found and removed. (4) Between groin with stream and east to next jetty, no buried oil observed. Advanced 25 trenches. Some cobbles in mid to upper intertidal zone stained with oil, some slightly sticky. Cobbles >75% covered and rocks piled by residents were removed. (5) Leisure shores beach, primarily 2cm-2" diameter surficial tarballs found and removed from the upper intertidal zone on higher elevation. Advanced 17 trenches and several spot checks throughout. Buried oil not observed.	Yes (continued checks for buried oil)
5/5/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	4.34	Post cleanup inspection and citizen response call inspection (call from 4/30/04 for exposed pallet removal)	Reinspected segment- approximately 20 lbs of tarballs collected from spradic areas throughout segment from east side of channel.	Yes (continued checks for buried oil)
5/7/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	4.34	Marsh cleanup activities	Under close supervision, Geolnsight, Entrix, DEP, and Mattapoisett Conservation Commission removed "pinches" of oil from the surface of marshes along the shoreline. Damage to plants and marsh grass was avoided. Approximately 15 lbs of oil was removed from the segment marsh.	Yes- continued monitoring recommended
6/2/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	1/3/1900	Shoreline inspection and potential buried oil check	On Leisures Shores beach and on west side of the eastern-most jetty, cluster's of splatter 2-3" in diameter were observed on the cobbles in the upper intertidal zone, as previously recorded. Some splatter slightly elevated and will smudge if pressed hard. No buried oil observed in 3 trenches. Approximately 20 tarballs 2cm-1" in diameter sporadically found along the south shoreline of the pond. No buried oil found in two trenches. On Howards Beach, sticky tarballs (rounded and flat) on surface sporadically found throughout beach area were removed, primarily on east side of channel (0.5-2" in diameter).	Yes (continued checks for buried oil)

**TABLE 4**  
**CITIZEN RESPONSE CALL INSPECTION SUMMARIES**  
**JANUARY 2004 - JULY 22, 2004**  
**BARGE B120 SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

Inspection Date	Segment Number	Segment Name	Town	Degree of Oiling	Oil Ranking	Objective	Inspection Summary	IRA Criteria Met?
2/19/2004	W1F-01	Brandt Beach	Mattapoissett	Heavy	2.49	Citizen response call received 2/19/04	Two areas within rocky shoreline area where old oil cobbles 0.5-6 inches in diameter were observed. Does not appear to be B120 oil.	NA
3/1/2004	W2A-05	Sunset Beach	Fairhaven	Moderate	2.00	Citizen response call inspection (call from 3/1/04)	Oiled seal at the end of Reservation Road reported. Informed Cape Cod Stranding Network of juvenile seal on beach with black "splashes" on it; the Stranding Network confirmed that it is common for harp seals to have black spotting on their coat that may be mistaken for oil.	NA
4/2/2004	W3D-06	Gooseberry Neck East	Westport	Moderate	2.06	Citizen response call inspection (call on 4/2/04)	Reported oil appeared to be pieces of coal. Evidence of oil not observed.	Yes
4/23/2004	W1E-05	Mattapoissett Neck East	Mattapoissett	Moderate	1.26	Citizen response inspection (call from 4/22/04 for Mattapoissett Shipyard)	Reported oil appeared to be a brownish red staining on water line of parked boat. No sheen or evidence of oil in water surrounding boat. Will further address with Fleet crew in future. One piece of snare removed and stored on site for future proper disposal.	Continued monitoring warranted (Note: Cleanup Activities conducted on 5/13/04)
4/27/2004	W3C-02	Little Beach	Dartmouth	Light	1.00	Citizen response inspection (call from 4/27/04)	Reported oil appeared to be a black hue in the sand caused by natural minerals and processes common on beaches throughout New England.	Yes
4/28/2004	W2B-03	Clark's Cove West	Dartmouth	Very Light	1.00	Citizen response call inspection (call from 4/27/04 at 23 Swift Road)	Black seaweed mistaken for oil was observed. No oil observed with the exception of one area of elevated splatter on a boulder (4"x5"x2"). Hardened and could not be removed.	Yes
5/7/2004	W1F-09	Mattapoissett Harbor North	Mattapoissett	Moderate	1.00	Citizen response call inspection (following citizen call on 5/6/04 at 1 Goodspeed Island)	Clumps of sticky oil in upper intertidal zone, approximately 200 yard stretch on cobbles. Oil patties 2-6" in diameter. Some minor splatter on boulders above upper intertidal zone. Cleanup warranted.	Continued monitoring warranted (Note: Cleanup Activities conducted on 5/13/04)
5/13/2004	W1E-05	Mattapoissett Harbor East	Mattapoissett	Moderate	1.26	Cleanup activities (following citizen call inspection on 4/23/04 for Mattapoissett Shipyard)	Mattapoissett Boat Yard: Follow-up to response call inspection on 4/23/04. Wiped sides of boat where brownish red staining was identified. Residue was determined not to be oil.	Yes
5/13/2004	W1F-09	Mattapoissett Harbor North	Mattapoissett	Moderate	1.26	Cleanup activities (following citizen call inspection on 5/6/04 for 1 Goodspeed Island)	Cleanup activities in response to inspection on 5/7/04. Entire beach was reinspected between two channels. 200 yard area in the upper intertidal zone in front of 1 Goodspeed Island has oil coated cobbles. Rocks >50% were removed and the remaining were scraped and wiped. Approximately 600 lbs of oil patties and oil mixed with sediment and cobbles removed.	Yes
5/27/2004	W1C-02	Planting Island Causeway	Marion	Heavy	3.00	Citizen response inspection (call from 5/26/04 for 128 Point Road)	Slightly elevated sporadic sticky splatter along several hundred yard stretch of cobble beaches, and trace on a seawall. Splatter (2cm- 1' diameter) consistent in middle and upper intertidal zones, extending approximately 100 yards west and 200 yards east of 128 Point Road- selective splatter rubs off. Some tarballs in cobbles. The majority of the oil was observed in-between boulders of 2 jetties located in front of 128 Point Road, patches up to 2' in diameter. Cleanup activities warranted.	Continued monitoring warranted (Note: Cleanup Activities conducted on 6/9/04)

TABLE 4  
 CITIZEN RESPONSE CALL INSPECTION SUMMARIES  
 JANUARY 2004 - JULY 22, 2004  
 BARGE B120 SPILL  
 BUZZARDS BAY, MASSACHUSETTS

Inspection Date	Segment Number	Segment Name	Town	Degree of Oiling	Oil Ranking	Objective	Inspection Summary	IRA Criteria Met?
5/27/2004	W2A-9	Sconticut Neck East	Fairhaven	Heavy	3.00	Shoreline inspection (response to report of oil by miscellaneous caller to Trident Environmental)	Five areas of concern encountered, from Hoppy's Landing to 2 miles west. (1) Two pavement areas 2'x2' and 2'x5' in upper intertidal zone sand an cobble between boulders (east side of beach). (2) 2-4" diameter cobbles with tacky oil splatter 30' square area of splatter slightly sticky on boulders. (3) In front of seawall, 2 tar mats approximately 3' in diameter surrounded by sporadic splatter. (4) 8" diameter tar patty removed 1-2" thick removed from on top of cobbles. (5) few cobbles with tacky oil. These areas area scheduled for cleanup during future activities in the area.	Cleanup activities warranted
6/2/2004	W2A-09	Sconticut Neck East	Fairhaven	Heavy	3.00	Citizen response call inspection (call from miscellaneous caller to Trident Environmental from an arbitrary date)	See inspection summary for W2A-10 for 6/2/04.	Cleanup activities warranted
6/2/2004	W2A-10	Long Island and Causeway South	Fairhaven	Heavy	3.44	Citizen response call inspection (call from miscellaneous caller to Trident Environmental from an arbitrary date)	Six areas on the coastline west of Hoppy's Landing, along an approximate 2-mile stretch, had oiled areas, including 2 areas where tar mats (2'x2' and 2'x5') were found and sticky splatter on boulders (cleanup recommended). One 8" sticky tar patty removed from upper intertidal zone. The remaining areas had splatter (some sticky) up 3" in diameter.	Cleanup activities warranted
6/9/2004	W1C-02	Planting Island Causeway	Marion	Heavy	1/3/1900	Cleanup activities (following citizen response inspection from 5/27/04)	Cleanup was very detailed. Wire brushes, hand shovels, and cloths used to remove oil to at least stain. Assessed areas included several hundred yards to the east and west from 128 Point Road. Focused on the 2 groins located in front of 128 Point Road. Oil splatter, slightly elevated and sticky, sporadically covered cobbles and boulders throughout the lower, mid, and upper intertidal zone, and the seawall. Patties of oil wedged in the groins were removed and brushed as much as possible. Impacted areas range from 1-12" in diameter. Very thin, sometimes slightly sticky splatter areas remain on rocks after cleaning, however it was determined that further removal would require solvent use. Oil mixed with sediment was removed under 18" diameter rock, 1-2" below the surface under cobbles and extending 2-12" below the surface, and consisted of 2-4" diameter patties within the impacted area.	Yes- continued monitoring recommended.

**TABLE 4**  
**CITIZEN RESPONSE CALL INSPECTION SUMMARIES**  
**JANUARY 2004 - JULY 22, 2004**  
**BARGE B120 SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

Inspection Date	Segment Number	Segment Name	Town	Degree of Oiling	Oil Ranking	Objective	Inspection Summary	IRA Criteria Met?
6/30/2004	W1F-02	Brandt Island West	Mattapoisett	Heavy	3.34	Citizen response call inspection (call from 6/29/04)	Howard Beach- citizen reported wooden pallet resurfaced from initial cleanup activities in 2003. Wooden pallet sticking out of sand about 1.5 inches. 4'x4' area and 3.5' deep dug to remove full size pallet, stained with oil. Slight sheen noticed at bottom of hole.	Yes (continued checks for buried oil)
7/18/2004	W1D-04	Holly Woods/Peases Point	Mattapoisett	Moderate	2.23	Citizen response call inspection (call from 7/17/04)	GeoInsight mobilized to the site for a preliminary inspection and observed 1-5" tar patties on the sandy beach in the upper intertidal zone that appeared to be fresh, non-consolidated fuel oil. Further weathered tar patties were observed in the super intertidal zone. Due to the high tide status, the visibility of the petroleum-impacted area was limited. Further inspection warranted.	Further investigation warranted
7/19/2004	W1D-04	Holly Woods/Peases Point	Mattapoisett	Moderate	2.23	Citizen response call inspection continued from 7/18/04	GeoInsight and a representative from Gallagher Marine, returned to the impacted beach during low tide. Three issues were addressed: (1) Initially, buried oil in the sandy beach area with a minimum extent of 70' along the coastline, 40' perpendicular to the water, and 6-12" deep. (2) An approximate 40' x 4' tar mat (pavement) was observed along the edge of an eroding marsh in the lower intertidal zone. (3) Tarballs and tar patties ranging 1-6" in diameter and were sporadically found and removed primarily from the shoreline marsh grass. Areas of concern were marked with GPS coordinates and flagged. Samples submitted for fingerprint analysis.	Further evaluation pending analytical results
7/19/2004	W1E-01	Nye's Cove	Mattapoisett	Light	1.33	Citizen response call inspection at 36 Cove Street	A private beach covered 75% covered in wrack had puddles containing organic sheen, which had been mistaken as a fuel oil sheen. No oil was observed by the technical team.	Yes

**TABLE 5**  
**SHORELINE INSPECTIONS FOR SEGMENTS THAT DID NOT PASS IRAC WITH FURTHER TREATMENT FEASIBLE**  
**JANUARY 2004 - JULY 22, 2004**  
**BARGE B120 SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

Inspection Date	Segment Number	Segment Name	Town	Degree of Oiling	Oil Ranking	Objective	Inspection Summary	IRA Criteria Met?
1/20/2004	E1-11	Scraggy Neck South	Bourne	Moderate	1.00	Shoreline inspection and potential buried oil check	Incomplete inspection due to unfeasible weather conditions.	Pending
3/3/2004	E1-11	Scraggy Neck South	Bourne	Moderate	1.00	Shoreline inspection and potential buried oil check	Very sporadic, trace splatter scoured to stain on boulders throughout segment. Advanced 6 trenches. Buried oil not observed.	Yes
4/6/2004	E1-11	Scraggy Neck South	Bourne	Moderate	1.00	Shoreline inspection and potential buried oil check	One 6"x6" area of sticky black oil removed from grass along shoreline- may not be Bouchards B120 oil. One oil wrack patty (3" diameter) removed from upper intertidal wrack line. Advanced 12 trenches. No buried oil observed.	Yes
4/6/2004	E1-13	Nye's Neck	Falmouth	Heavy	2.92	Shoreline inspection (failed IRAC with further treatment feasible)	Sporadic very trace splatter (pea to quarter-size) observed on cobbles and boulders.	Yes
4/7/2004	W2B-05	Fort Taber	New Bedford	Moderate	1.44	Shoreline Inspection- Failed IRAC with further treatment feasible	Splatter (1-6" diameter) throughout rocky shoreline, primarily in upper intertidal zone, slightly elevated and becoming sticky with warming weather conditions. Some oil patties in-between boulders. Clustered 5-50' apart.	Yes- further monitoring recommended
4/13/2004	W1C-01	Butler's Point	Marion	Moderate	3.00	Shoreline inspection (failed IRAC with further treatment feasible)	Very trace sporadic splatter (2-4" diameter) on seawall. Minor amount of tar observed in-between jetty boulders up to 6" in diameter.	Yes
4/13/2004	W1E-03	Strawberry Point West	Mattapoisett	Moderate	2.23	Shoreline inspection (failed IRAC with further treatment feasible)	Several areas with sticky splatter and tar mats (pavement) mixed in sand and cobbles, ranging from 6"x2' area to 5' x 30' areas. Tar mats are located throughout the middle intertidal zone in the rocky shoreline of the segment. Oil extends into marsh grass in some areas, specifically at the east point of the segment. Removed approximately 45 lbs. Areas of concern marked with GPS. Further cleanup activities warranted.	Cleanup activities warranted
5/5/2004	W1E-03	Strawberry Point West	Mattapoisett	Moderate	2.23	Cleanup activities and continued shoreline inspection	Approximately 250 lbs of oil mixed with sediment removed on west side of rocky shoreline. Half day of work due to unsafe weather conditions.	Cleanup activities warranted
5/12/2004	W1E-03	Strawberry Point West	Mattapoisett	Moderate	2.23	Cleanup activities (continued from 5/5/04)	Removed approximately 450 lbs of oil mixed with sediment, primarily from middle intertidal zone throughout segment. Removal of oil from marsh grass was removed from the top 1" of the soil, as a test for further oil removal from impacted marsh areas. Scraping the top layer of the marsh without removing marsh sediment re-exposed a sticky surface, and therefore was determined unsuccessful. More oil remains on-site on the rocky shoreline and marsh areas and further cleanup is warranted.	Cleanup activities warranted
6/3/2004	W1E-03	Strawberry Point West	Mattapoisett	Moderate	2.23	Cleanup activities (continued from 5/12/04)	Follow-up cleanup inspection with DEP, concluded that more oil removal is warranted.	Cleanup activities warranted
6/3/2004	W2B-05	Fort Taber	New Bedford	Moderate	1.44	Shoreline inspection (assess if cleanup activities should be warranted)	Cove area has splatter clusters on pier wall up to 2' in diameter and 10' apart- sticky. Consistent pea to quarter-size splatter, slightly elevated and tacky, observed throughout the upper and middle intertidal zone on the west rocky shoreline. Clusters of splatter, mostly 5-6" in diameter, up to 4"x4' areas area about 5-20' part. Some oil in-between boulders, up to 6" in diameter. Old oil pavement pieces observed throughout segment. Sarah Porter has not heard of local complaints of oil. Signs posted along public park " Oil Contaminated Area- Keep Out" in English and Portuguese.	Cleanup activities warranted 1 day
6/9/2004	W2B-05	Fort Taber	New Bedford	Moderate	1.44	Cleanup activities (following inspection of failed IRAC segment with further treatment feasible on 4/7/04 and 6/3/04)	Cleanup was very detailed. Wire brushes, hand shovels, and cloths used to remove oil to at least a stain. Boulders and cobbles scraped; few tarballs observed and removed from in-between rocks. Removed approximately 100 lbs. of oil. Successful cleanup- Sarah Porter satisfied with cleanup.	Yes
6/18/2004	W1E-03	Strawberry Point West	Mattapoisett	Light	1.46	Cleanup activities (continued from 6/3/04)	Focus of cleanup along rocky shoreline middle to upper intertidal zones. Areas of concern were identified during prior cleanups overseen by Geolnsight. Pavement located in several areas ranging from 2-6" below grade and 1- 20 square feet. Oil is mixed with sand and in-between and under cobbles and boulders; soft and sticky. Area 1, N41°38.774' and W70°46.479'; tar mat approximately 4'x4' and 4" deep in the middle intertidal zone. Majority of oil covered by cobbles; the visible oil area was approximately 2'x1". Disturbance produced slight sheen, absorbent pads used. Spot checks confirmed extent of impacted area. Bottom sandy layer left uncovered to support further weathering by the sun and ocean. Approximately 400 lbs of oil mixed with media removed. Area 2, N41°38.721' and W70°46.409', an uncovered tar mat approximately 2'x6' and 6" deep in middle intertidal zone, 150 yards east of Area 1. Cleaned in the same fashion, and approximately 250 lbs removed. Remaining areas of concern marked with coordinates.	Cleanup activities warranted



**TABLE 6  
OTHER INSPECTIONS AND CLEANUPS  
JANUARY 2004 - JULY 22, 2004  
BARGE B120 SPILL  
BUZZARDS BAY, MASSACHUSETTS**

Inspection Date	Segment Number	Segment Name	Town	Degree of Oiling	Oil Ranking	Objective	Inspection Summary	IRA Criteria Met?
3/4/2004	W3A-03	Pier Beach (Salter's Point)	Dartmouth	Moderate	1/2/1900	Shoreline inspection (Passed IRAC- enroute to W3A-04)	Trace to no splatter scoured to stain on boulders.	Yes
4/15/2004	W3A-03	Pier Beach (Salter's Point)	Dartmouth	Moderate	1/2/1900	Shoreline inspection (Passed IRAC- enroute to W3A-04)	Sporadic, trace splatter scoured to stain on boulders observed.	Yes
5/12/2004	W1E-02	Strawberry Cove	Mattapoisett	Light	1/1/1900	Shoreline inspection (failed IRAC with further treatment not feasible)	Tar mats are visible along marsh shoreline, in which DEP expressed concern. One small 4'x6' area was removed by Entrix as requested by DEP. Tar mats remain in the cove area marsh.	Yes- continued monitoring recommended
6/3/2004	W1E-01	Nye's Cove	Mattapoisett	Light	1/1/1900	Passed IRAC	Angelica Point- some splatter mostly scoured to stain throughout segment. A 5'x2' area consisting of oil patties and tar mat pavement observed on top of marsh observed. A 2'x2' area oil patties mixed with sand and cobble observed. Removable.	Cleanup activities warranted- pending marsh proposal
6/3/2004	W1E-02	Strawberry Cove	Mattapoisett	Light	1/1/1900	Shoreline inspection (failed IRAC with further treatment not feasible)	The inland point of cove near the access road has pavement along the edge of the marsh 30'x6". DEP would like removal. Splatter in middle and upper intertidal zones, 4-8" in diameter in sand and cobble throughout the east shoreline of the cove towards Angelica Point- removed as seen. Two tar patties 2-4" inches removed from marsh grass in upper intertidal zone on east side of cove.	Yes- continued monitoring recommended
6/29/2004	W1C-12	Converse Point East	Marion	Moderate	1/2/1900	Shoreline inspection (DEP audit request)	DEP reported "soft but not sticky oil- easily removable with rags and wire brushes. One person could do this in one to two hours." Extremely trace sporadic splatter dime to quarter size. Scraped when able. 1/4 lb of oil removed.	Yes
6/29/2004	W1E-04	Crescent Beach	Mattapoisett	Heavy	1/3/1900	Shoreline inspection (DEP audit request)	Three areas of concern: (1) three boulders 6-12' in diameter on beach with slightly elevated splatter in upper intertidal zone- scrapped and brushed until stained. Adjacent, 4 flattened tar patties 0.5-2" diameter removed from along channel. (2) Two areas 6-8" in diameter on jetty with slightly sticky splatter and oil in-between boulders. Scraped to stain. (3) 10'x10' area where oil patties on edge of marsh and adjacent cobbles- removed as much as possible without damaging marsh grass. One 4" diameter wrack patty removed.	Yes
6/29/2004	W2A-05	Sunset Beach	Fairhaven	Moderate	1/2/1900	Shoreline inspection (DEP Audit request)- cleanup activities conducted	Areas within boulders and marsh within a 50'x20' area with patches of sticky splatter and oil patties 2-12" in diameter in the upper intertidal zone. Area scraped with hand shovels, wire brushes and cloths. Approximately 15 lbs. of oil removed.	Yes
6/29/2004	W2A-06	Silver Shell Beach	Fairhaven	Light	1/2/1900	Shoreline inspection (DEP Audit request)- cleanup activities conducted	Four impacted areas within a 10'x5' area of oil patties 6-12' in diameter in the super intertidal zone. Oil removed from top layer of marsh where feasibly able to remove without damage of marsh grass. Approximately 5 lbs. of oil removed.	Yes
6/29/2004	W3D-06	Gooseberry Neck East	Westport	Moderate	1/2/1900	Shoreline inspection (DEP audit request)	Passed IRAC- follow up inspection. High energy area, seaweed covering 50% of beach area. No oil observed.	Yes
6/29/2004	W3D-07	Gooseberry Neck West	Westport	Moderate	1/2/1900	Shoreline inspection (DEP audit request)	Passed IRAC- follow up inspection. High energy area, seaweed covering 50% of beach area. No oil observed.	Yes

TABLE 7  
 SUBTIDAL SEDIMENT SAMPLING ANALYTICAL RESULTS  
 LONG ISLAND AND CAUSEWAY SOUTH, FAIRHAVEN W2A-10  
 BARGE B120 SPILL  
 BUZZARDS BAY, MASSACHUSETTS  
 July 22, 2004

Sample Identification:	W2A10-ST-S01	W2A10-ST-S02	W2A10-ST-S03	W2A10-ST-S04	W2A10-ST-S05	W2A10-ST-S06		W2A10-ST-S07		W2A10-ST-S08		W2A10-ST-S09		W2A10-ST-XXX		MCP Method 1 Standards			NOAA Standards		
						GWA	B&B	GWA	B&B	GWA	B&B	GWA	B&B	GWA	B&B	S-1 / GW-1	S-1 / GW-2	S-1 / GW-3	ERL		
<b>Analyte</b>																					
<b>EPH</b>																					
C <sub>9</sub> -C <sub>18</sub> Aliphatic Hydrocarbons	ND(35)	ND(35)	ND(37)	ND(35)	ND(39)	ND(36)	NA	ND(110)	NA	ND(32)	NA	ND(36)	NA	ND(92)	NA	1,000	1,000	1,000	NA		
C <sub>19</sub> -C <sub>36</sub> Aliphatic Hydrocarbons	ND(35)	ND(35)	ND(37)	ND(35)	ND(39)	ND(36)	NA	ND(110)	NA	ND(32)	NA	ND(36)	NA	130	NA	2,500	1,000	1,000	NA		
C <sub>11</sub> -C <sub>22</sub> Aromatic Hydrocarbons	ND(35)	ND(35)	ND(37)	ND(35)	ND(39)	ND(36)	NA	110	NA	ND(32)	NA	ND(36)	NA	110	NA	200	800	800	NA		
<b>PAH by GC/MS-SIM by method 8270</b>																					
Naphthalene	0.009 j	0.011 j	0.009 j	0.009 j	0.011 j	0.010 j	0.0047	0.033 j	0.0139	0.009 j	0.0048	0.008 j	0.0005	0.031	0.0132	4	100	100	0.160		
2-Methylnaphthalene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.012)	0.0036	0.031 j	0.0113	ND(0.011)	0.003	ND(0.012)	0.0005	0.023 j	0.0096	4	500	500	0.070		
Acenaphthylene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.012)	0.0082	ND(0.035)	0.0213	ND(0.011)	0.005	ND(0.012)	0.0006	ND(0.031)	0.0235	100	100	100	0.044		
Acenaphthene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.012)	0.0054	ND(0.035)	0.007	ND(0.011)	0.0055	ND(0.012)	0.0001 j	ND(0.031)	0.0059	20	1,000	1,000	0.016		
Fluorene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.012)	0.006	ND(0.035)	0.0155	ND(0.011)	0.0051	ND(0.012)	0.0001 j	ND(0.031)	0.0113	400	1,000	1,000	0.019		
Phenanthrene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	0.032	0.010 j	0.0598	0.075	0.136	0.018	0.0439	ND(0.012)	0.0003	0.053	0.0833	700	1,000	100	0.240		
Anthracene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.012)	0.0154	ND(0.035)	0.0538	ND(0.011)	0.0123	ND(0.012)	0.0006	ND(0.031)	0.0311	1,000	1,000	1,000	0.085		
Fluoranthene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	0.017	0.023	0.153	0.180	0.275	0.025	0.109	ND(0.012)	0.0012	0.150	0.216	1,000	1,000	1,000	0.600		
Pyrene	ND(0.012)	0.009 j	ND(0.012)	ND(0.012)	0.025	0.021	0.158	0.230	0.371	0.023	0.100	ND(0.012)	0.0016	0.170	0.273	700	700	700	0.665		
Benzo(a)anthracene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	0.012 j	0.015	0.127	0.190	0.467	0.014	0.0867	ND(0.012)	0.0017	0.120	0.262	0.7	0.7	0.7	0.261		
Chrysene	ND(0.012)	0.012	ND(0.012)	ND(0.012)	0.014	0.022	0.135	0.330	0.566	0.020	0.0933	ND(0.012)	0.0022	0.210	0.302	7	7	7	0.384		
Benzo(b)fluoranthene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	0.014	0.0942	0.170	0.150	0.014	0.059	ND(0.012)	0.0026	0.130	0.164	0.7	0.7	0.7	NA		
Benzo(k)fluoranthene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	0.011 j	0.0289	0.100	0.0226	0.011	0.0189	ND(0.012)	0.0009	0.086	0.0501	7	7	7	0.430		
Benzo(a)pyrene	ND(0.012)	0.008	ND(0.012)	ND(0.012)	0.010 j	0.019	0.0908	0.220	0.131	0.018	0.0551	ND(0.012)	0.0025	0.150	0.166	0.7	0.7	0.7	0.430		
Indeno(1,2,3-cd)pyrene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.012)	0.0734	0.056	0.0676	ND(0.011)	0.0421	ND(0.012)	0.0019	0.039	0.0983	0.7	0.7	0.7	NA		
Dibenzo(a,h)anthracene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.012)	0.0144	0.033 j	0.0208	ND(0.011)	0.0081	ND(0.012)	0.0003	0.023	0.0262	0.7	0.7	0.7	0.063		
Benzo(g,h,i)perylene	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.013)	0.009 j	0.0599	0.073	0.0495	0.008 j	0.0295	ND(0.012)	0.0016	0.049	0.0779	1,000	1,000	1,000	NA		
Other PAH	NA	NA	NA	NA	NA	NA	1.1863	NA	11.7117	NA	0.8527	NA	0.0269	NA	6.0446	NA	NA	NA	NA		
Total PAH	NA	NA	NA	NA	NA	NA	2.224	NA	14.091	NA	1.534	NA	0.0459	NA	7.858	NA	NA	NA	4		

- NOTES:
1. Results in milligrams per kilogram (mg/kg).
  2. GWA = Analysis conducted by Groundwater Analytical, Inc.
  3. B&B = Analysis conducted by B&B Laboratories
  4. EPH: Extractable Petroleum Hydrocarbons.
  5. ND(x) = constituent not detected at practical quantitation limits noted in parentheses.
  6. PAH by GC/MS-SIM: Polyaromatic Hydrocarbons with Selected Ion Monitoring.
  7. j: estimated concentration/ detected below standard laboratory reporting limits.
  8. NA: Not Analyzed or Not Available.
  9. Shaded cells exceed applicable standards.

**TABLE 8**  
**WASTE DISPOSAL INFORMATION**  
**JANUARY 2004 - JULY 22, 2004**  
**BARGE B120 SPILL**  
**BUZZARDS BAY, MASSACHUSETTS**

Date of Disposal	Weight of Material	
	Pounds	Tons
4/13/2004	660	0.33
5/20/2004	4,080	2.04
6/9/2004	720	0.36
6/23/2004	1,640	0.82
7/20/2004	11,440	5.72
<b>TOTAL:</b>	<b>18,540</b>	<b>9.27</b>

NOTES:

Disposal Facility: American Ref-Fuel Co. of SEMASS

Carrier: Fleet Environmental