



**BOUCHARD B120 RELEASE  
SHORELINE SEGMENT SUMMARY**

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GeoInsight Project Number 3871-002

SEGMENT IDENTIFICATION: **W1C-10**

SEGMENT NAME: **Silver Shell Beach**

SEGMENT LOCATION: **Marion, Massachusetts** (*Map attached*)

MAXIMUM DEGREE OF INITIAL OILING: Clean (Oiling Score: <1.00)

SEGMENT INSPECTION STATUS: Did not pass IRAC criteria endpoints on 08/07/2003 with no further treatment feasible. Passed MCP IRA Inspection on 08/23/2004.

**SITE-SPECIFIC INFORMATION**

**PHYSICAL CHARACTERISTICS:**

Primary Shoreline Type/ Geology:

- 1A: Heavily utilized, public recreational sand beaches.

Secondary Shoreline Type/ Geology:

- 1F: Salt marshes.

Hydrogeology:

- Sippican Harbor is located to the east, Sprague's Cove and Peckams Pond to the south, and Buzzards Bay to the southeast.

Bedrock Geology:

- Bedrock underlying this segment is identified undivided granite, gneiss, and schist (Zen, 1983).

**ENVIRONMENTAL SENSITIVE RECEPTORS (Identified within 500 feet of segment):**

Aquifer: None at segment.

Protected Open Space: At segment.

Public Ground Water Supply Wells: None at segment.

Public Surface Water Supply Wells: None at segment.

Areas of Critical Environmental Concern (ACEC): None at segment.

Vernal Pools: None at segment.

Priority Habitats of Rare Species: At segment and adjacent to segment: Buzzards Bay aquatic environment.

Estimated Habitats of Rare Wildlife: At segment and adjacent to segment: Buzzards Bay aquatic environment.

Floodplains: At segment: 100-year floodplain.

**HUMAN SENSITIVE RECEPTORS (Identified within 500 feet of segment):**

Segment Use: Public beaches. Residential dwellings are located within 500 feet of the segment. The segment is accessible via roadway.

Frequency of Use: Presumably seasonal and year round residential use.

## SUMMARY OF INSPECTION ACTIVITIES

### **WRF INSPECTIONS**

(Wildlife Field Reconnaissance- Shoreline or On-Water Observations; Bird Transect Study.)

WRF inspections pertaining to this segment were not conducted.

### **NRDA FIELD ACTIVITIES SUMMARY**

(Natural Resource Damage Assessment)

Note: Includes Shoreline Cleanup Assessment Team (SCAT) inspections and activities. SCAT forms were completed by field inspection teams working under the direction of Unified Command.

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
05/09/2003	Several trenches excavated to inspect for buried oil on the beach area. Evidence of oil was not observed.
05/12/2003	Several tarballs primarily concentrated in two areas were observed. The two areas were approximately 2 by 800 feet long with less than 1% surface oil coverage, and approximately 10 by 100 feet with 1% to 10% surface oil coverage. Tarballs were also observed partially buried near a jetty. Oiled wrack and vegetation were observed in marsh area.

### **IRAC INSPECTIONS**

(Unified Command Immediate Response Action Completion inspections and activities.)

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
07/11/2003	Segment did not meet IRAC criteria endpoints and further treatment was feasible. Additional cleanup activities, primarily near Water Street, were warranted.
08/07/2003	Cleanup activities evident. Localized oil coating rocks was not easily accessible, therefore natural attenuation was recommended for these areas. Segment did not meet IRAC criteria endpoints but further treatment was not considered feasible.

### **MCP FIELD ACTIVITIES SUMMARY**

(Massachusetts Contingency Plan inspections and activities under the direction of the Licensed Site Professional-of-Record.)

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
08/23/2004	Site reconnaissance: Trace tacky dime-sized splatter observed on rocks (approximately every 10 to 15 feet) primarily within an approximate 50-foot long area in the middle intertidal zone near Jerusalem Road. Trace dried splatter (0.5 to 2 inches in diameter) was observed in the middle intertidal zone at N41°36.473' W70°52.049' and near N41°36.389' W70°51.861'. A hardened non-B120 tar mat was observed, presumably from an oil spill prior to the B120 release.

Note: GeoInsight did not receive IRA citizen calls pertaining to this segment.





0 250 500 1,000 Feet

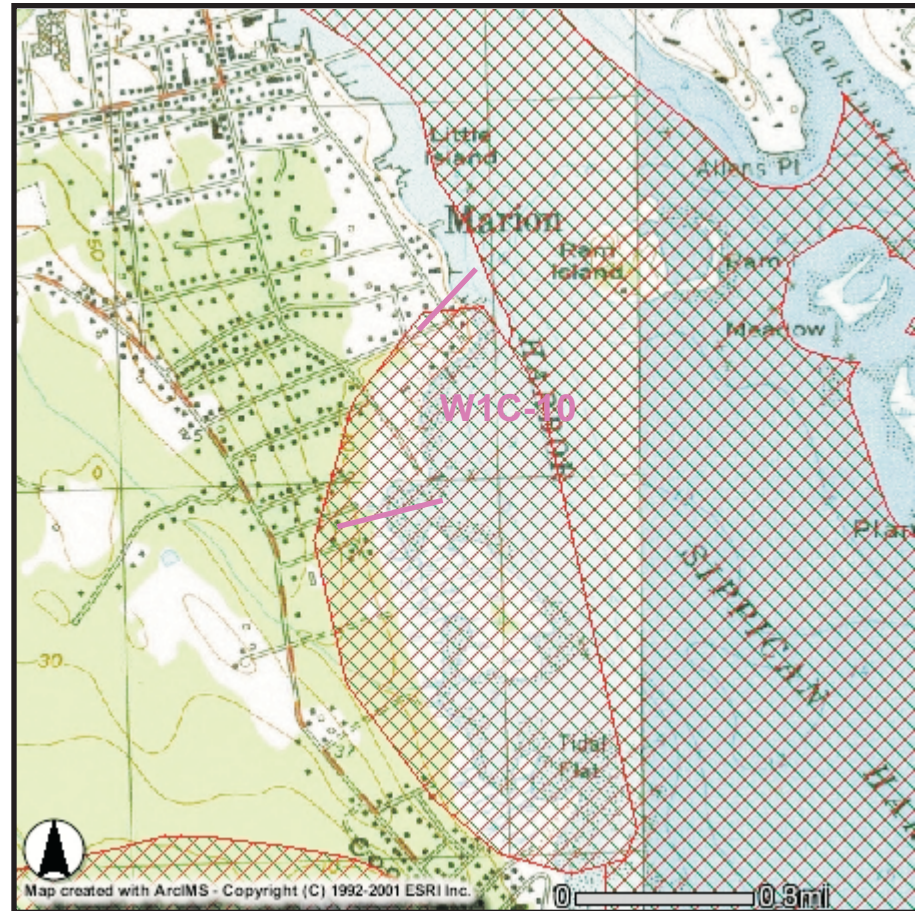


**E N T R I X**

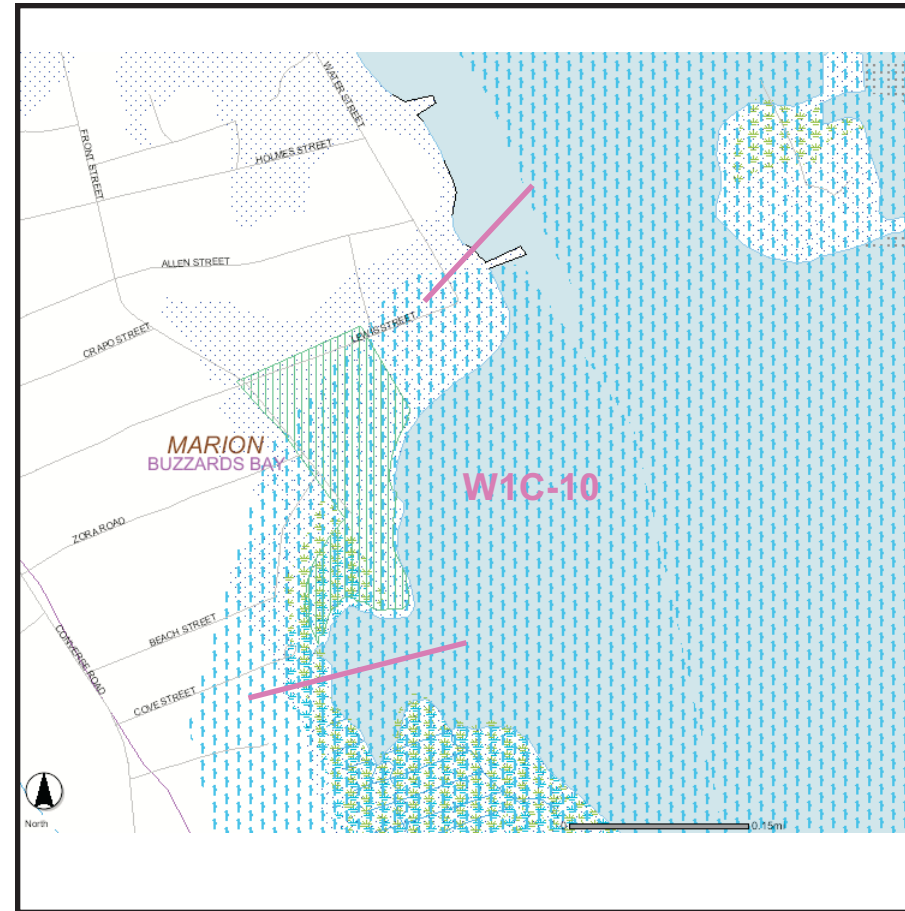
**W1C-10**  
**Silver Shell Beach**  
**Bouchard B No. 120 Oil Spill**  
**Buzzards Bay, MA**



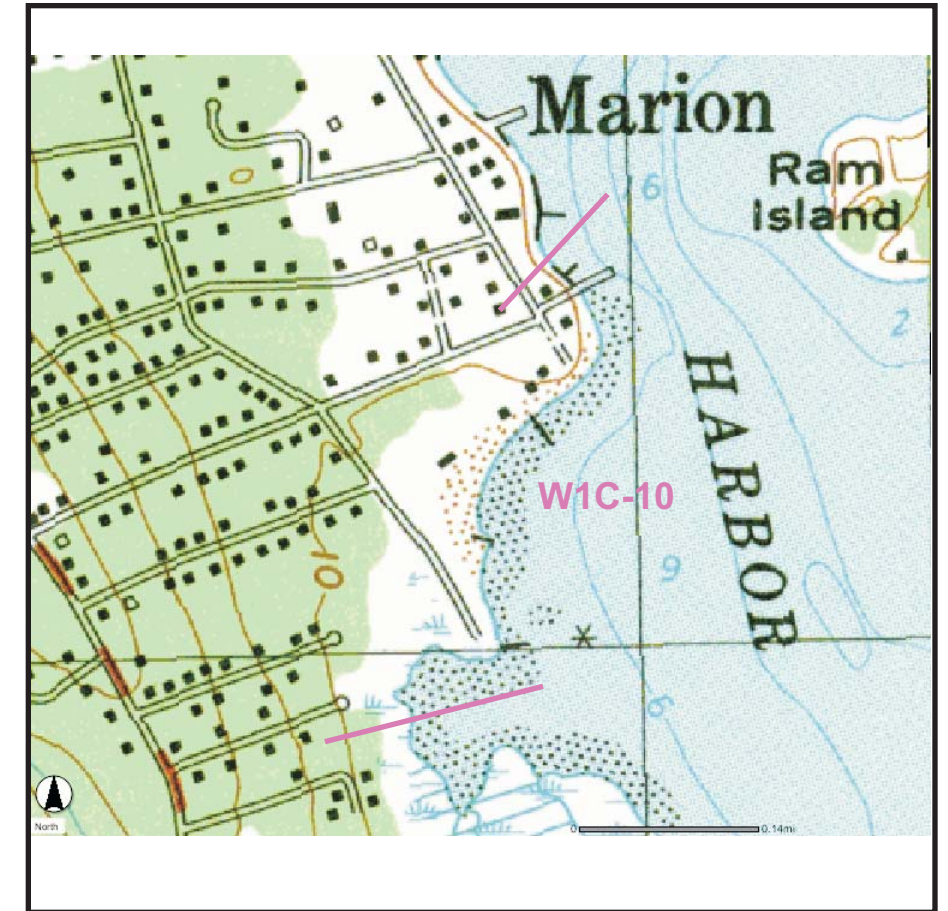
NATURAL HERITAGE AND ENDANGERED SPECIES MAP





2IE PRIORITY RESOURCE MAP











































TOPOGRAPHIC MAP




LEGEND

-  NHESP 2005 MA PRIORITY HABITATS FOR STATE-PROTECTED RARE SPECIES
-  NHESP 2005 MA ESTIMATED HABITATS OF RARE WILDLIFE

DEP MCP 21e Map Legend

-  Zone IIs
  -  IWPA's
  -  Zone A
  -  Sole Source Aquifers
  -  Solid Waste Sites
  -  Protected Openspace
  -  ACECs
  -  NHESP Estimated Habitat of Rare Wildlife in Wetland Areas
  -  Certified Vernal Pools 2003 NHESP
  -  Subbasins
  -  Mass Major Basins
  -  DEP Region
  -  Town Arcs
  -  County Boundaries
- Aquifers, By Yield**
  -  HIGH YIELD
  -  MEDIUM YIELD
  - Non Potential Drinking Water Source Area**
  -  HIGH YIELD
  -  MEDIUM YIELD
  - FEMA Floodplains**
  -  100 YEAR FLOODPLAIN
- Hydrography**
  -  WATER
  -  RESERVOIR
  -  WETLANDS
  -  SALT WATER WETLANDS
  -  FLATS SHOALS
  - Rivers and Streams**
  -  PERENNIAL
  -  INTERMITTENT
  -  SHORELINE
  -  MAN MADE SHORE
  -  DAM
  -  AQUEDUCT
- EOT-OTP Roads**
  -  LIMITED ACCESS HIGHWAY
  -  MULTILANE HWY. NOT LIMITED ACCESS
  -  OTHER NUMBERED HWY
  -  MAJOR ROAD - COLLECTOR
  -  MINOR STREET OR ROAD, RAMP
  - Tracks and Trails MHD**
  -  TRACK
  -  TRAIL
  - Transmission Lines**
  -  PIPELINE
  -  POWERLINE
  -  TRAIN



		PROJECT:		
		B120 OIL SPILL		
TITLE:		LOCATION:		
		SILVER SHELL BEACH BUZZARDS BAY, MA		
PHASE II SUPPORTING MAPS				
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	FIGURE #:
LAC	JKB	KDT	MJW	
SCALE:	DATE:	FILE:	PROJECT #:	WIC-10
AS SHOWN	01/25/06	3871WIC-10	3871-002	





**Trench Location**

- 11/2004
- 10/2004
- 09/2004
- 08/2004
- 07/2004
- 06/2004
- 04/2004
- 03/2004
- 01/2004
- 12/2003
- 11/2003
- 10/2003
- 09/2003

- ✿ Nearshore Subtidal Sediment Sampling Location 2004
- ✿ Deep Subtidal Sediment Sampling Location 2004
- ✿ Subtidal Sediment Sampling Location 2003
- ▲ Qualitative Shellfish Surveys 2004
- ◆ Marsh Sampling Location 2004
- ◆ Marsh Core Sampling Location 2004
- Water Sampling Location 2004
- Water Sampling Location 2003
- ★ Intertidal Sediment Sampling Location 2003
- ★ Intertidal Sediment Sampling Location 2004

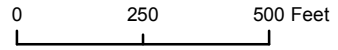
- ✦ Shellfish Sampling Location
- ▶ Chain Drag Location 2003
- ▶ Chain Drag Location 2004
- ⦿ Lobster Pot Sampling Location 2003
- Absorbent Pad Sampling Location 2003
- ⚠ Dive Sites
- ☪ Wetlands
- Nests
- ⊕ Vernal Pool
- NHESP 2003 Priority Habitats for State-Protected Rare Species

**OILING**

- NO DATA
- CLEAN
- VERY LIGHT
- LIGHT
- MEDIUM
- HEAVY

**IRAC ESI**

- Public-Private Sand Beach (1A/1B)
- Mixed Sand and Gravel (1C)
- Marsh (1F)
- Rocky Shoreline (1E)
- Riprap, Groin, Jetty (1D)
- Visual Inspection of Marsh Area



ENTRIX

**W1C-10**  
**Silver Shell Beach, Marion**  
**Comprehensive Activities**  
**Bouchard B No. 120 Oil Spill**  
**Buzzards Bay, MA**