



**BOUCHARD B120 RELEASE  
SHORELINE SEGMENT SUMMARY**

5 Lan Drive, Suite 200  
Westford, Massachusetts 01886  
Tel. (978) 692-1114  
Fax (978) 692-1115

GeoInsight Project Number 3871-002

SEGMENT IDENTIFICATION: **W1C-12**

SEGMENT NAME: **Converse Point East**

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

MAXIMUM DEGREE OF INITIAL OILING: Moderate (Oiling Score: 2.63)

SEGMENT INSPECTION STATUS: Did not pass IRAC inspection on 08/08/2003, further treatment was not considered feasible. Passed MCP IRA Activities on 06/29/2004.

**SITE-SPECIFIC INFORMATION**

**PHYSICAL CHARACTERISTICS:**

Primary Shoreline Type/ Geology:

- 1C: Mixed sand and gravel (pebble to boulder) and rip rap groins (jetties.)

Secondary Shoreline Type/ Geology:

- 1D: Rip rap seawalls, bulkheads, piers, docks, and pilings; and
- 1F: Salt marshes.

Hydrogeology:

- Sippican Harbor is located to the north and Buzzards Bay to the south and southeast.

Bedrock Geology:

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

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

Aquifer: None at segment.

Protected Open Space: None 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: Adjacent to segment: Buzzards Bay aquatic environment.

Estimated Habitats of Rare Wildlife: Adjacent to segment: Buzzards Bay aquatic environment.

Floodplains: At segment: 100-year floodplain.

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

Segment Use: Private beach, rocky shore, and marsh. Residential dwellings are located within 500 feet of the segment. Portions of segment appear to be accessible via roadway.

Frequency of Use: Presumed to be 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
05/20/2003	Shellfish tissue samples collected and analyzed.
05/21/2003	Surface oil (less than 1% coverage) at the segment was observed primarily in the middle intertidal zone and on a jetty.

### **IRAC INSPECTIONS**

(Unified Command Immediate Response Action Completion inspections and activities)

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
08/08/2003	Evidence of oil was not observed on the majority of segment. Some tacky splatter on rocks and boulders was observed, and noted to be difficult to access. Segment did not meet IRAC criteria endpoints but further treatment was not considered to be 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
06/29/2004	Site reconnaissance: MADEP reported "soft but not sticky oil - easily removable with rags and wire brushes. One person could do this in one to two hours." Shoreline inspection performed with MADEP and trace sporadic tacky splatter (dime to quarter size) was found and scraped where feasible. A total of approximately 1/4 pound of residual oil was removed.
08/23/2004	Tarballs (1 to 4 inches in diameter) were found and removed from shoreline marsh grass in the lower and middle intertidal zones between N41°41.127' W70°45.079' and N41°41.025' W70°45.110' (an approximate 40 foot long area). Approximately 30 feet south of this location, dried splatter (primarily approximately 2 inches in diameter) was observed, and a cluster of dried splatter (dime-size to 1 inch in diameter) was observed within a 10 foot square area on a seawall near the south endpoint of the segment. Splatter was removed where feasible.

Note:

1. GeoInsight did not receive IRA citizen calls pertaining to this segment.
2. MADEP = Massachusetts Department of Environmental Protection

**TABLE 1**  
**SAMPLE SUMMARY**  
**BUZZARDS BAY, MASSACHUSETTS**  
**SEGMENT: W1C-12**  
**Converse Point East, Marion**

Sample ID	Date Collected	Matrix	Analysis	Laboratory	Sampling Program	Sample Location Coordinates		Sample Location Description	Comments
						Latitude	Longitude		
MOMA-SS-1-A, B, and C	5/20/2003	Tissue	PAH	B&B	NRDA Pre-Assessment	N41°40.814'	W71° 15.089'	27 Mooring Road	Shellfish - Softshell clam

NOTES:

1. B&B: B&B Laboratories.

**TABLE 2**  
**SUMMARY OF ANALYTICAL RESULTS**  
**BUZZARDS BAY, MASSACHUSETTS**  
**SEGMENT: W1C-12**  
**Converse Point East, Marion**

Analyte	MOMA-SS-1-A, B, and C
	Softshell Clam
	5/20/2003
<b>PAH by GC/MS-SIM by method 8270C</b>	
Naphthalene	<b>0.0037</b>
2-Methylnaphthalene	<b>0.0037</b>
Acenaphthylene	<b>0.0003j</b>
Acenaphthene	<b>0.0004</b>
Fluorene	<b>0.0006</b>
Phenanthrene	<b>0.0043</b>
Anthracene	<b>0.0003</b>
Fluoranthene	<b>0.0086</b>
Pyrene	<b>0.0066</b>
Benzo(a)anthracene	<b>0.0016</b>
Chrysene	<b>0.0095</b>
Benzo(b)fluoranthene	<b>0.0012</b>
Benzo(k)fluoranthene	<b>0.0011</b>
Benzo(a)pyrene	<b>0.0006</b>
Indeno(1,2,3-c,d)pyrene	<b>0.0003j</b>
Dibenzo(a,h)anthracene	<b>0.0001j</b>
Benzo(g,h,i)perylene	<b>0.0005</b>
<b>Total PAH</b>	<b>0.257</b>

NOTES:

1. Results in mg/Kg (milligrams per kilogram).
2. EPH: Extractable Petroleum Hydrocarbons.
3. ND(x): Constituent not detected at practical quantitation limits (PQL) noted in parentheses.
4. PAH by GC/MS-SIM: Polynuclear Aromatic Hydrocarbon analysis by Gas Chromatography/Mass Spectrometry with Selected Ion Monitoring.
5. j: Estimated concentration/ detected below standard laboratory reporting limits.
6. Bold values exceed laboratory PQL.



W1C-12



0 500 1,000 2,000 Feet

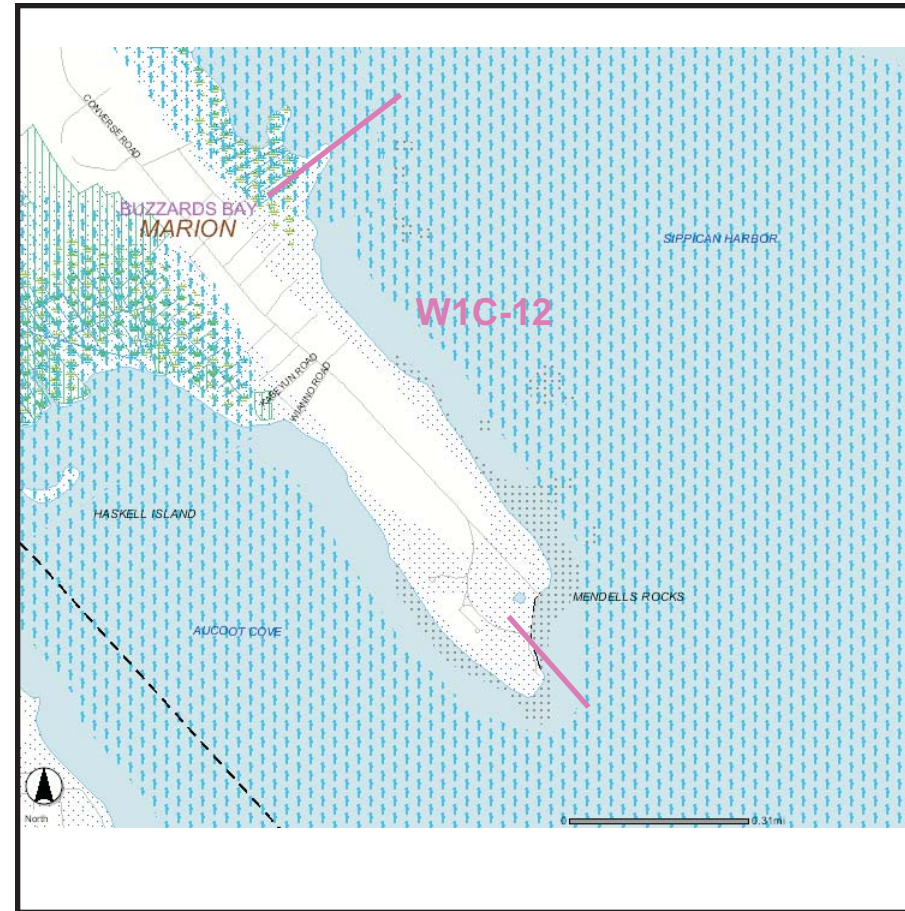


**E N T R I X**  
**W1C-12**  
**Converse Point East**  
**Bouchard B No. 120 Oil Spill**  
**Buzzards Bay, MA**

NATURAL HERITAGE AND ENDANGERED SPECIES MAP



21E PRIORITY RESOURCE MAP



TOPOGRAPHIC MAP












































LEGEND


 NHESP 2005 MA PRIORITY HABITATS FOR STATE-PROTECTED RARE SPECIES

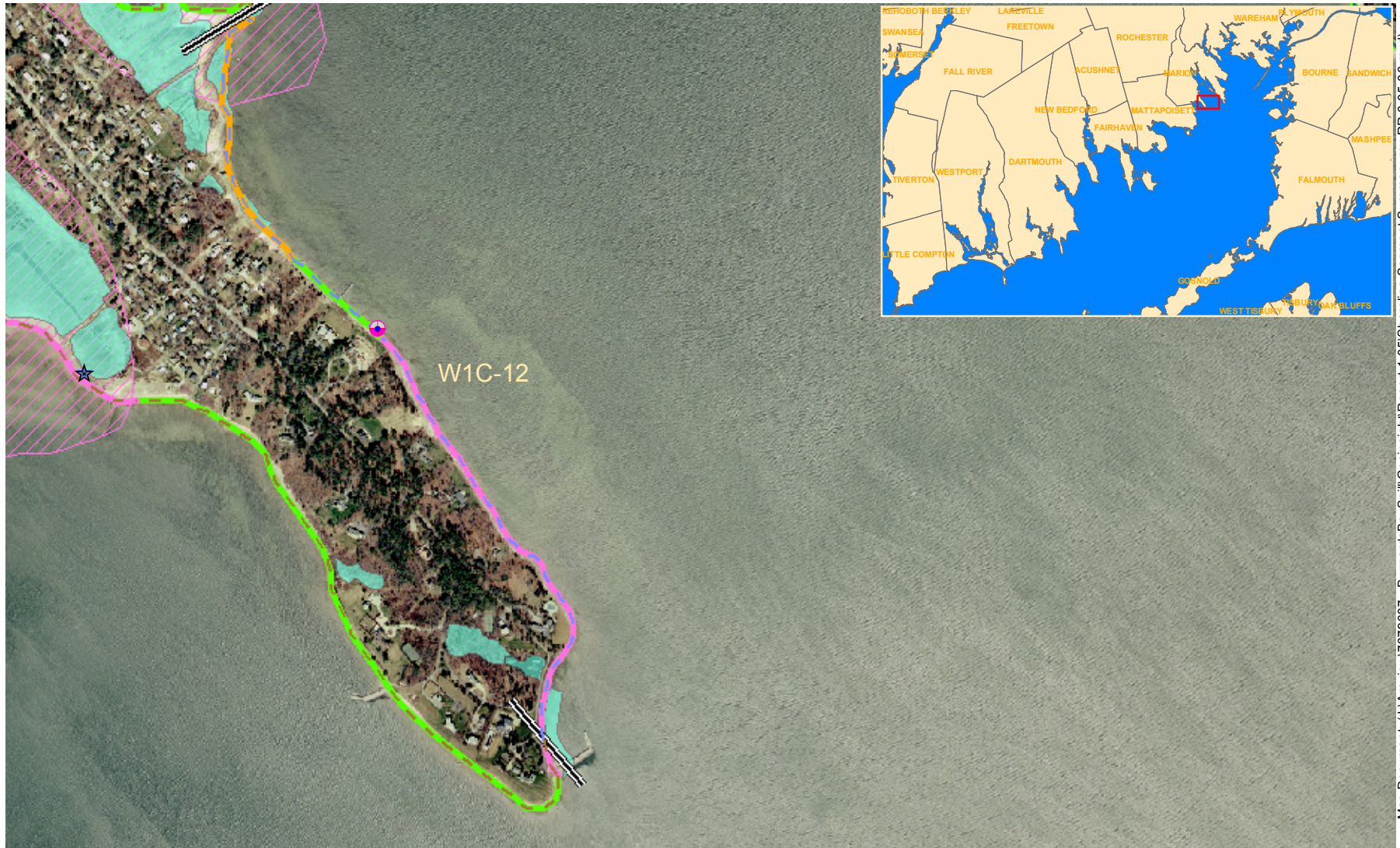
 NHESP 2005 MA ESTIMATED HABITATS OF RARE WILDLIFE

DEP MCP 21e Map Legend

-  Zone IIs
-  IWPAs
-  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
-  HIGH YIELD
-  MEDIUM YIELD
-  Non Potential Drinking Water Source Area
-  HIGH YIELD
-  MEDIUM YIELD
-  FEMA Floodplains
-  100 YEAR FLOODPLAIN
-  WATER
-  RESERVOIR
-  WETLANDS
-  SALTWATER WETLANDS
-  FLATS SHOALS
-  PERENNIAL
-  INTERMITTENT
-  SHORELINE
-  MAN MADE SHORE
-  DAM
-  AQUEDUCT
-  LIMITED ACCESS HIGHWAY
-  MULTILANE HWY, NOT LIMITED ACCESS
-  OTHER NUMBERED HWY
-  MAJOR ROAD - COLLECTOR
-  MINOR STREET OR ROAD, RAMP
-  TRACK
-  TRAIL
-  PIPELINE
-  POWERLINE
-  TRAIN



		PROJECT:		B120 OIL SPILL	
		LOCATION:		CONVERSE POINT EAST BUZZARDS BAY, MA	
TITLE: PHASE II SUPPORTING MAPS					
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	FIGURE #:	
LAC	JKB	KDT	MJW	WIC-12	
SCALE:	DATE:	FILE:	PROJECT #:		
AS SHOWN	01/25/06	3871WIC-12	3871-002		



Map Document: (J:\Ar\view\7079607 - BuzzardsBaySpill\Geoinsight\Report 1-05\Shoreline Segment Summary rev RR 6-06-06.mxd)

**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

0 500 1,000 Feet



**E N T R I X**

**W1C-12**  
**Converse Point East, Marion**  
**Comprehensive Activities**  
**Bouchard B No. 120 Oil Spill**  
**Buzzards Bay, MA**