



**BOUCHARD B120 RELEASE
SHORELINE SEGMENT SUMMARY**

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GeoInsight Project Number 3871-002

SEGMENT IDENTIFICATION: **W1C-11**

SEGMENT NAME: **Sippican Harbor West**

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

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

SEGMENT INSPECTION STATUS: Passed IRAC inspection on 07/11/2003.

SITE-SPECIFIC INFORMATION

PHYSICAL CHARACTERISTICS:

Primary Shoreline Type/ Geology:

- 1F: Salt marshes.

Secondary Shoreline Type/ Geology:

- 1B: Less utilized, semi-public and private sand beaches.

Hydrogeology:

- Sippican Harbor is located to the east and Buzzards Bay to the southeast. Most of the segment is saltwater wetlands.

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: 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: Based upon inspections conducted under Unified Command, the segment appears to be a private and semi-public area. Residential dwellings are located within 500 feet of the segment. Portion of segment appears to be accessible via roadway.

Frequency of Use: Presumed to be 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
05/02/2003	Nine oil-coated areas, including tarballs and oiled wrack, were observed in the upper intertidal zone during high tide. A total of approximately 11% to 50% surface oil coverage was observed at portions of the segment.
05/20/2003	Shellfish tissue samples collected and analyzed.

IRAC INSPECTIONS

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

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
07/11/2003	Segment met IRAC criteria endpoints.

MCP FIELD ACTIVITIES SUMMARY

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

MCP inspections pertaining to this segment were not conducted. GeoInsight did not receive IRA citizen calls pertaining to this segment.

TABLE 1
SAMPLE SUMMARY
BUZZARDS BAY, MASSACHUSETTS
SEGMENT: W1C-11
Sippican Harbor West, Marion

Sample ID	Date Collected	Matrix	Analysis	Laboratory	Sampling Program	Sample Location Coordinates		Sample Location Description	Comments
						Latitude	Longitude		
BVMA-QH-1-A, B and C	5/20/2003	Tissue	PAH	B&B	NRDA Pre-Assessment	N41°41.155'	W71°14.851'	Bayview Avenue	Shellfish - Quahog

NOTES:

1. B&B: B&B Laboratories.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
BUZZARDS BAY, MASSACHUSETTS
SEGMENT: W1C-11
Sippican Harbor West, Marion

Analyte	BVMA-QH-1-A, B, and C
	Quahog
	5/20/2003
PAH by GC/MS-SIM by method 8270C	
Naphthalene	0.0016
2-Methylnaphthalene	0.0018
Acenaphthylene	0.0001j
Acenaphthene	0.0002j
Fluorene	0.0002j
Phenanthrene	0.0010
Anthracene	0.0001j
Fluoranthene	0.0020
Pyrene	0.0017
Benzo(a)anthracene	0.0004j
Chrysene	0.0021
Benzo(b)fluoranthene	0.0006j
Benzo(k)fluoranthene	0.0005
Benzo(a)pyrene	0.0004
Indeno(1,2,3-c,d)pyrene	0.0003j
Dibenzo(a,h)anthracene	ND(0.0004)
Benzo(g,h,i)perylene	0.0002j
Total PAH	0.0557

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.



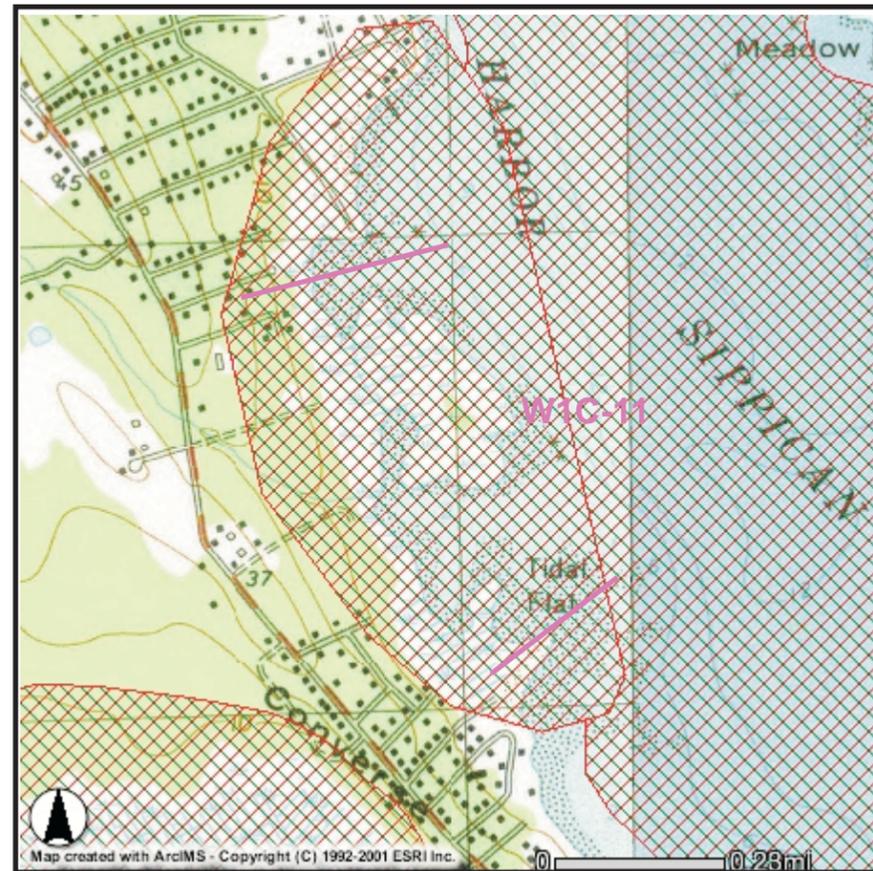
0 250 500 1,000 Feet



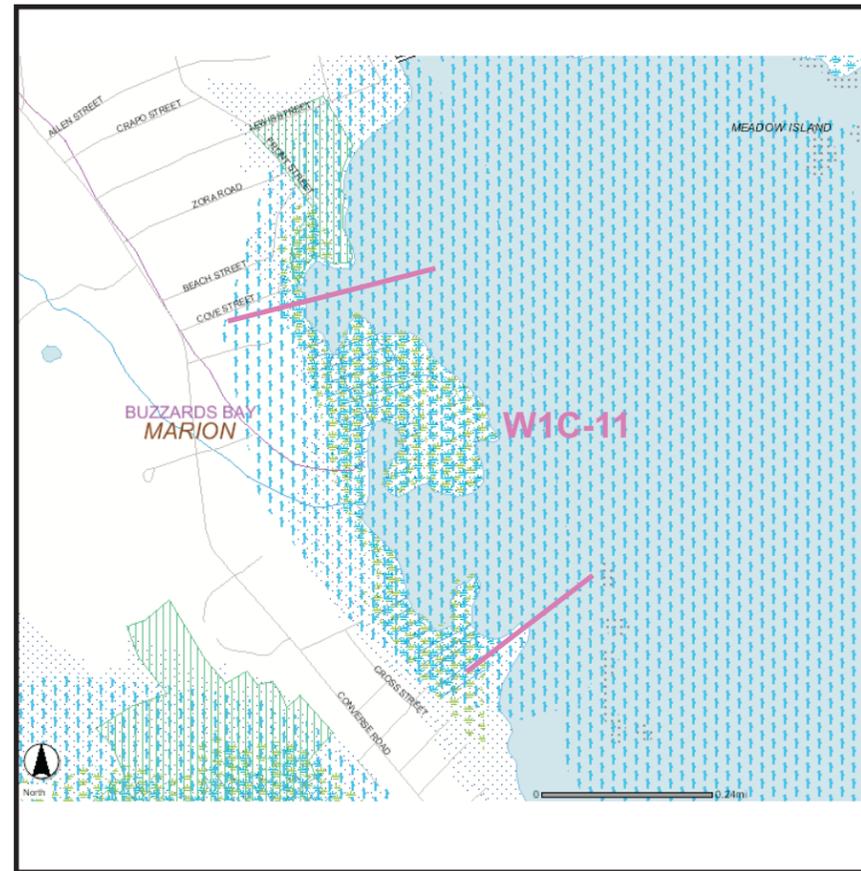
E N T R I X

W1C-11
Sippican Harbor West
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA

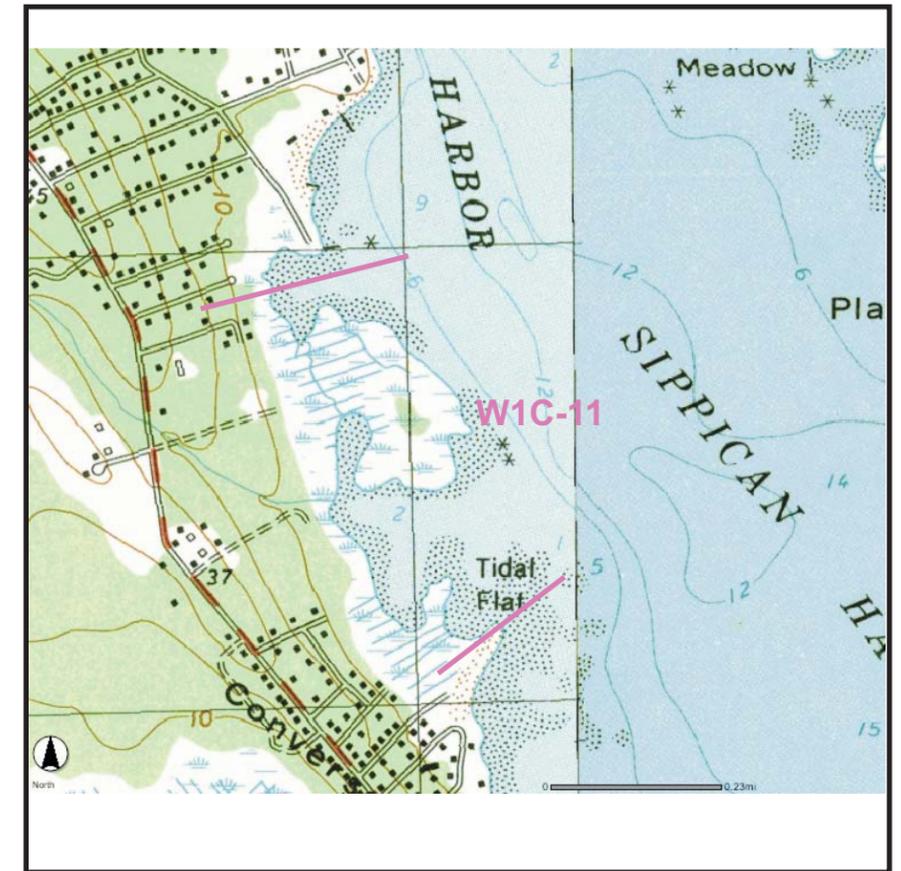
NATURAL HERITAGE AND ENDANGERED SPECIES MAP



2IE PRIORITY RESOURCE MAP



TOPOGRAPHIC MAP



LEGEND

NHESP 2005 MA PRIORITY HABITATS FOR STATE-PROTECTED RARE SPECIES

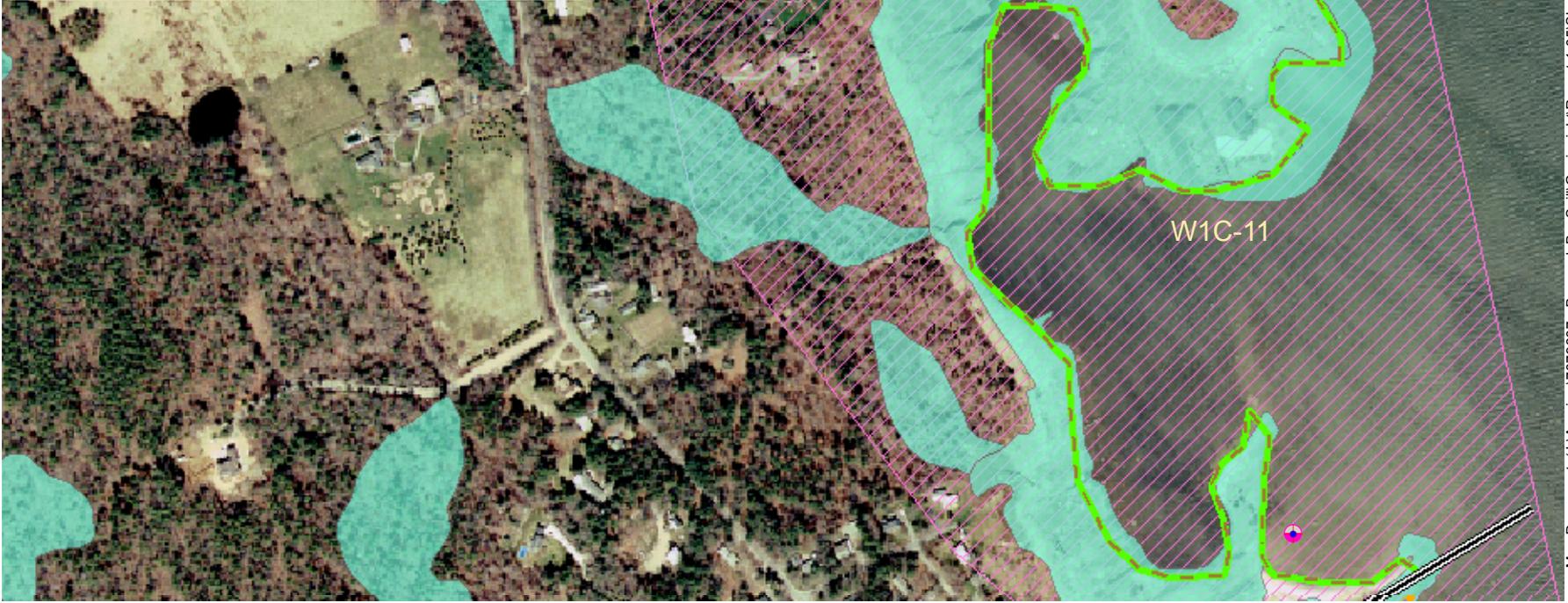
NHESP 2005 MA ESTIMATED HABITATS OF RARE WILDLIFE

DEP MCP 21e Map Legend

- Zone IIs
 - 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
- 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-OTF 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

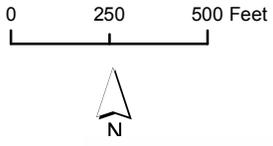


		PROJECT:		B120 OIL SPILL	
		LOCATION:		SIPPICAN HARBOR WEST BUZZARDS BAY, MA	
TITLE:					
PHASE II SUPPORTING MAPS					
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	FIGURE #:	
LAC	JKB	KDT	MJW	WIC-II	
SCALE:	DATE:	FILE:	PROJECT #:		
AS SHOWN	01/25/06	387IWIC-II	3871-002		



- 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



E N T R I X

W1C-11
Sippican Harbor West, Marion
Comprehensive Activities
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA