



**BOUCHARD B120 RELEASE
SHORELINE SEGMENT SUMMARY**

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GeoInsight Project Number 3871-002

SEGMENT IDENTIFICATION: **W1E-04**

SEGMENT NAME: **Crescent Beach**

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

MAXIMUM DEGREE OF INITIAL OILING: Heavy (Oiling Score: 3.92)

SEGMENT INSPECTION STATUS: Passed IRAC criteria endpoints on 08/23/2003.

SITE-SPECIFIC INFORMATION

PHYSICAL CHARACTERISTICS:

Primary Shoreline Type/ Geology:

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

Secondary Shoreline Type/ Geology:

- 1B: Less utilized semi-public and private sand beaches; and
- 1F: Salt marshes.

Hydrogeology:

- Mattapoisett Harbor is located to the west, Pine Island Pond to the east, and Buzzards Bay to the south. Fringing saltwater wetlands are located on the east side of the segment, and back barrier saltwater wetlands are located behind the west side of the segment.

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: 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 and semi-public beach. 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
05/11/2003	Tarballs and areas of pavement (ranging approximately 3 inches to 3 feet in diameter and embedded in sediment up to 4 inches deep) were observed primarily in the upper intertidal zone. Oiled wrack was also observed. Less than 1% surface oil coverage was observed at the segment. Cleanup crew was on-site during the inspection.
05/12/2003	Patches of pavement observed in areas approximately 1,000 feet long and 1 to 3 inches wide along Crescent Beach. Stained pebbles and small tarballs were observed along Crescent Beach. Additional cleanup activities were warranted.
05/13/2003	Oil coating and tarballs observed near Ned's Point, covering the surface approximately 1% to 10%. Oiled wrack on the sand beach immediately west of the Harbor Master's office at the Town Wharf was observed. Heavily oiled rocks observed east of Crescent Street.
05/21/2003	Cleanup crew was on-site during the inspection.
05/29/2003	Additional cleanup activities were warranted, particularly on gravel areas. Removal of rocks and tarballs and continued cleanup activities in front of residences recommended.

IRAC INSPECTIONS

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

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
08/25/2003	Splatter was observed near eastern end of the segment. The 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.)

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM
01/21/2004	Phase I characterization activities: Due to winter conditions and ice cover, evidence of oil was not observed. Intertidal sediment samples were collected from three sample locations (centered around N41°39.090' W70°46.764', N41°39.155' W70°47.452', and N41°39.137' W70°47.542', respectively) in the intertidal zone. Two samples were collected from each location, including from the upper intertidal zone (W1E04-UIT-01, W1E04-UIT-02, and W1E04-UIT-03) and from the lower intertidal zone (W1E04-LIT-01, W1E04-LIT-02, and W1E04-LIT-03). Each sample consisted of three grab samples collected approximately 30 feet apart and parallel to the shoreline, were composited in a laboratory, and analyzed for EPH fractions and PAH by 8270C/SIM analysis.
06/29/2004	Site reconnaissance: Three areas of residual oil were observed: (1) Three boulders with splatter

(approximately 6 to 12 inches in diameter) were observed in upper intertidal zone. The splatter was scraped until scoured to a stain. Four tar patties (approximately 0.5 to 2 inches in diameter) were removed from along the adjacent channel on the eastern portion of Crescent Beach. (2) Tacky splatter observed in two areas (approximately 6 to 8 inches in diameter) between boulders on a jetty were observed, and scraped until scoured to a stain. (3) A small area of pavement patches (approximately 10 square feet) was observed on fringing marsh and removed with little damage to the salt marsh. One wrack patty (approximately 4 inches in diameter) removed.

08/23/2004 Site reconnaissance: Splatter (approximately up to 12 inches in diameter) was observed on cobbles and in few marsh grass areas in the intertidal zone. The splatter was sporadic, concentrated in clusters 2 to 20 feet apart, and was tacky between N41°39.064' W70°47.664' and N41°39.122' W70°47.585'. Trace dried splatter was also observed on cobbles along the west side of the channel on Crescent Beach. Trace splatter was observed in the upper intertidal zone in front of a point house at N41°39.132' W70°47.283'. Splatter (0.5 to 6 inches in diameter) was observed near the east rocky point in the upper and lower intertidal zones between N41°39.105' W70°46.895' and N41°39.073' W70°46.553'. One tarball (approximately 1 inch in diameter) was removed from the middle intertidal zone of the sandy beach at N41°39.155' W70°47.325'.

05/09/2005 Site reconnaissance: Areas of splatter (dime-size to 1 inch in diameter) were observed on several groins and on a concrete post in the marsh area. The majority of splatter was hardened and did not easily come off to the touch. Two weathered tarballs (not tacky) were removed from the beach.

07/20/2005 Site reconnaissance: Trace dried residual splatter was observed on cobbles in the intertidal zone.

08/31/2005 Phase II characterization activities: Sediment sampling and visual inspection of salt marshes. Isolated areas of splatter (primarily dime- to quarter-size) were observed on cobbles and boulders in the intertidal zone between N41°39.073' W70°47.638', N41°39.122' W70°47.585', and N41°39.115' W70°46.990'. The splatter was weathered and hardened and did not easily come off to the touch. Patches of weathered pavement were observed (within an approximate 5 by 15 foot area) at N41°39.050' W70°46.666' and N41°39.056' W70°46.675'. The pavement was weathered and hardened, but had a tacky center when broken apart. In addition, small areas of fresh tacky oil (non-B120) was found and removed at N41°39.118' W70°47.263' and at N41°39.110' W70°47.146'. Intertidal sediment samples were collected from two sample locations (centered around N41.65184 W70°47.183' and N41°39.107' W70°47.185' at the first location, and N41°39.114' W70°46.851' and N41°39.108' W70°46.849' at the second location) in the intertidal zone. Two samples were collected from each sample location, from the upper (W1E04-UIT-01 and W1E04-UIT-02) and lower intertidal zones (W1E04-LIT-01 and W1E04-LIT-02). Each sample consisted of three grab samples collected approximately 30 feet apart and parallel to the shoreline, were composited in a laboratory, and analyzed for EPH fractions and PAH by 8270C/SIM analysis. The salt marsh appeared healthy (approximately 90% green, 10% brown vegetation) and oil was not observed in the marsh.

09/13/2005 Site Cleanup: One discontinuous area of pavement (approximately 5 by 15 feet and 7 inches thick) found during the 08/31/05 Phase II inspection was removed from the middle intertidal zone in a rocky and grassy area between N41°39.051' W70°46.683' and N41°39.050' W70°46.666'.

Notes:

1. GeoInsight did not receive IRA citizen calls pertaining to this segment.
2. EPH = Extractable Petroleum Hydrocarbons.
3. PAH = Polynuclear Aromatic Hydrocarbons.
4. SIM = Selected Ion Monitoring.

TABLE 1
SAMPLE SUMMARY
BUZZARDS BAY, MASSACHUSETTS
SEGMENT: WIE-04
Crescent Beach, Mattapoisett

Sample ID	Date Collected	Matrix	Analysis	Laboratory	Sampling Program	Sample Location Coordinates		Sample Location Description	Comments
						Latitude	Longitude		
W1E-04-UIT-01	1/21/2004	Sediment	PAH EPH	GAI	MCP-Phase I Site Assessment	N41°39.090'	W70°46.764'	Upper Intertidal Zone	Composite Samples
W1E-04-LIT-01						N41°39.090'	W70°46.764'	Lower Intertidal Zone	
W1E-04-UIT-02						N41°39.155'	W70°47.451'	Upper Intertidal Zone	
W1E-04-LIT-02						N41°39.155'	W70°47.451'	Lower Intertidal Zone	
W1E-04-UIT-03						N41°39.1374'	W70°47.542'	Upper Intertidal Zone	
W1E-04-LIT-03						N41°39.1374'	W70°47.542'	Lower Intertidal Zone	
DDD01-UIT-01						N41°39.090'	W70°46.764'	Upper Intertidal Zone	Composite Samples (Duplicate W1E-04- UIT-01, LIT-01)
DDD01-LIT-01						N41°39.090'	W70°46.764'	Lower Intertidal Zone	
W1E04-P2-UIT-01	8/31/2005	Sediment	PAH EPH	GAI	MCP-Phase II Site Assessment	N41°39.108'	W70°47.185'	Upper Intertidal Zone	Composite samples
W1E04-P2-LIT-01						N41°39.106'	W70°47.197'	Lower Intertidal Zone	
W1E04-P2-UIT-02	9/1/2005					N41°39.113'	W70°46.846'	Upper Intertidal Zone	
W1E04-P2-LIT-02						N41°39.113'	W70°46.846'	Lower Intertidal Zone	

NOTES:

1. GAI: Groundwater Analytical, Inc.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
BUZZARDS BAY, MASSACHUSETTS
SEGMENT: WIE-04
Crescent Beach, Mattapoissett

Analyte	WIE04-UIT-01	WIE04-LIT-01	WIE04-UIT-02	WIE04-LIT-02	MCP Method 1 Standards			Effects Range-Low Benchmarks Marine Sediments ER-L
	Upper Intertidal Sediment	Lower Intertidal Sediment	Upper Intertidal Sediment	Lower Intertidal Sediment	S-1 / GW-1	S-1 / GW-2	S-1 / GW-3	
	1/21/2004	1/21/2004	1/21/2004	1/21/2004				
EPH								
C ₉ -C ₁₈ Aliphatic Hydrocarbons	ND(34)	ND(36)	ND(32)	ND(30)	1,000	1,000	1,000	NA
C ₁₉ -C ₃₆ Aliphatic Hydrocarbons	ND(34)	ND(36)	ND(32)	ND(30)	2,500	2,500	2,500	NA
C ₁₁ -C ₂₂ Aromatic Hydrocarbons	ND(34)	ND(36)	ND(32)	ND(30)	200	NA	800	NA
PAH by GC/MS-SIM method 8270C								
Naphthalene	0.010 j	0.011 j	0.011	0.010	4	40	500	0.160
2-Methylnaphthalene	0.006 j	0.007 j	0.007 j	0.006 j	4	500	500	0.070
Acenaphthylene	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.010)	100	100	100	0.044
Acenaphthene	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.010)	20	1,000	1,000	0.016
Fluorene	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.010)	400	1,000	1,000	0.019
Phenanthrene	ND(0.011)	ND(0.012)	0.011	0.018	700	1,000	100	0.240
Anthracene	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.010)	1,000	1,000	1,000	0.085
Fluoranthene	ND(0.011)	ND(0.012)	0.016	0.024	1,000	1,000	1,000	0.600
Pyrene	ND(0.011)	ND(0.012)	0.020	0.028	1,000	1,000	1,000	0.665
Benzo(a)anthracene	ND(0.011)	ND(0.012)	0.006 j	0.008 j	7	7	7	0.261
Chrysene	ND(0.011)	ND(0.012)	0.013	0.014	7	7	7	0.384
Benzo(b)fluoranthene	ND(0.011)	ND(0.012)	0.006 j	0.007 j	7	7	7	NA
Benzo(k)fluoranthene	ND(0.011)	ND(0.012)	0.006 j	0.008 j	70	70	70	NA
Benzo(a)pyrene	ND(0.011)	ND(0.012)	0.006 j	0.007 j	2	2	2	0.430
Indeno(1,2,3-c,d)pyrene	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.010)	7	7	7	NA
Dibenzo(a,h)anthracene	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.010)	0.7	0.7	0.7	0.063
Benzo(g,h,i)perylene	ND(0.011)	ND(0.012)	ND(0.011)	0.005 j	1,000	1,000	1,000	NA

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.
7. ER-L: Effects Range Low (Long and Morgan 1991).
8. NA: Not Applicable.
9. MCP: Massachusetts Contingency Plan.

TABLE 2 (continued)
SUMMARY OF ANALYTICAL RESULTS
BUZZARDS BAY, MASSACHUSETTS
SEGMENT: WIE-04
Crescent Beach, Mattapoissett

Analyte	WIE04-UIT-03	WIE04-LIT-03	DDD01-UIT-01	DDD01-LIT-01	MCP Method 1 Standards			Effects Range-Low Benchmarks Marine Sediments ER-L
	Upper Intertidal Sediment	Lower Intertidal Sediment	Upper Intertidal Sediment	Lower Intertidal Sediment	S-1 / GW-1	S-1 / GW-2	S-1 / GW-3	
	1/21/2004	1/21/2004	1/21/2004	1/21/2004				
EPH								
C ₉ -C ₁₈ Aliphatic Hydrocarbons	ND(31)	ND(30)	ND(31)	ND(31)	1,000	1,000	1,000	NA
C ₁₉ -C ₃₆ Aliphatic Hydrocarbons	ND(31)	ND(30)	ND(31)	ND(31)	2,500	2,500	2,500	NA
C ₁₁ -C ₂₂ Aromatic Hydrocarbons	ND(31)	ND(30)	ND(31)	ND(31)	200	NA	800	NA
PAH by GC/MS-SIM by method 8270C								
Naphthalene	0.010	0.009 j	0.010	0.010	4	40	500	0.160
2-Methylnaphthalene	0.006 j	0.007 j	0.007 j	0.008 j	4	500	500	0.070
Acenaphthylene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	100	100	100	0.044
Acenaphthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	20	1,000	1,000	0.016
Fluorene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	400	1,000	1,000	0.019
Phenanthrene	0.015	0.012	0.006 j	ND(0.010)	700	1,000	100	0.240
Anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	1,000	1,000	1,000	0.085
Fluoranthene	0.030	0.026	0.019	ND(0.010)	1,000	1,000	1,000	0.600
Pyrene	0.027	0.023	0.017	ND(0.010)	1,000	1,000	1,000	0.665
Benzo(a)anthracene	0.014	0.008 j	0.008 j	ND(0.010)	7	7	7	0.261
Chrysene	0.014	0.013	0.010 j	ND(0.010)	7	7	7	0.384
Benzo(b)fluoranthene	0.012	0.010	0.008 j	ND(0.010)	7	7	7	NA
Benzo(k)fluoranthene	0.012	0.009 j	0.007 j	ND(0.010)	70	70	70	NA
Benzo(a)pyrene	0.014	0.011	0.008 j	ND(0.010)	2	2	2	0.430
Indeno(1,2,3-c,d)pyrene	0.008 j	0.008 j	ND(0.010)	ND(0.010)	7	7	7	NA
Dibenzo(a,h)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.7	0.7	0.7	0.063
Benzo(g,h,i)perylene	0.009 j	0.009 j	0.006 j	ND(0.010)	1,000	1,000	1,000	NA

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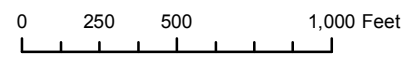
Analyte	W1E04-P2-UIT-01	W1E04-P2-LIT-01	W1E04-P2-UIT-02	W1E04-P2-LIT-02	MCP Method 1 Standards			Effects Range-Low Benchmarks Marine Sediments ER-L
	Upper Intertidal Sediment	Lower Intertidal Sediment	Upper Intertidal Sediment	Lower Intertidal Sediment	S-1 / GW-1	S-1 / GW-2	S-1 / GW-3	
	8/31/2005	8/31/2005	9/1/2005	9/1/2005				
EPH								
C ₉ -C ₁₈ Aliphatic Hydrocarbons	ND(30)	ND(37)	ND(31)	ND(34)	1,000	1,000	1,000	NA
C ₁₉ -C ₃₆ Aliphatic Hydrocarbons	ND(30)	ND(37)	ND(31)	ND(34)	2,500	2,500	2,500	NA
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Benzo(g,h,i)perylene	ND(0.010)	0.007j	ND(0.013)	ND(0.011)	1,000	1,000	1,000	NA

NOTES:

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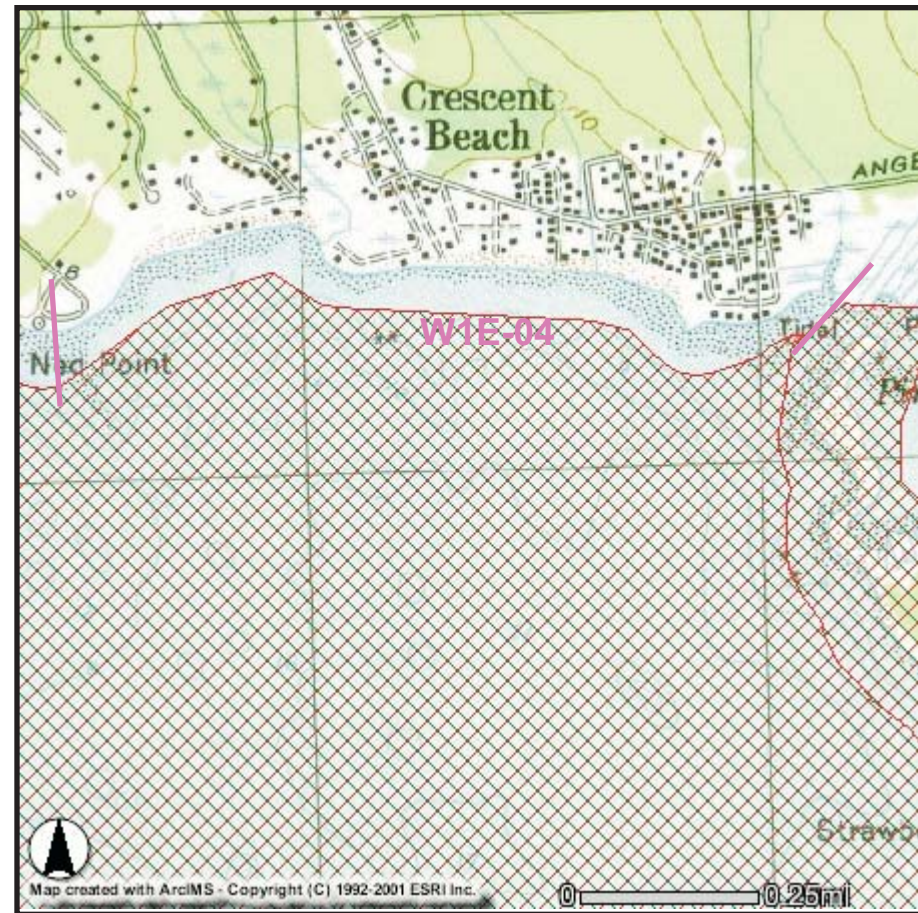
W1E-04



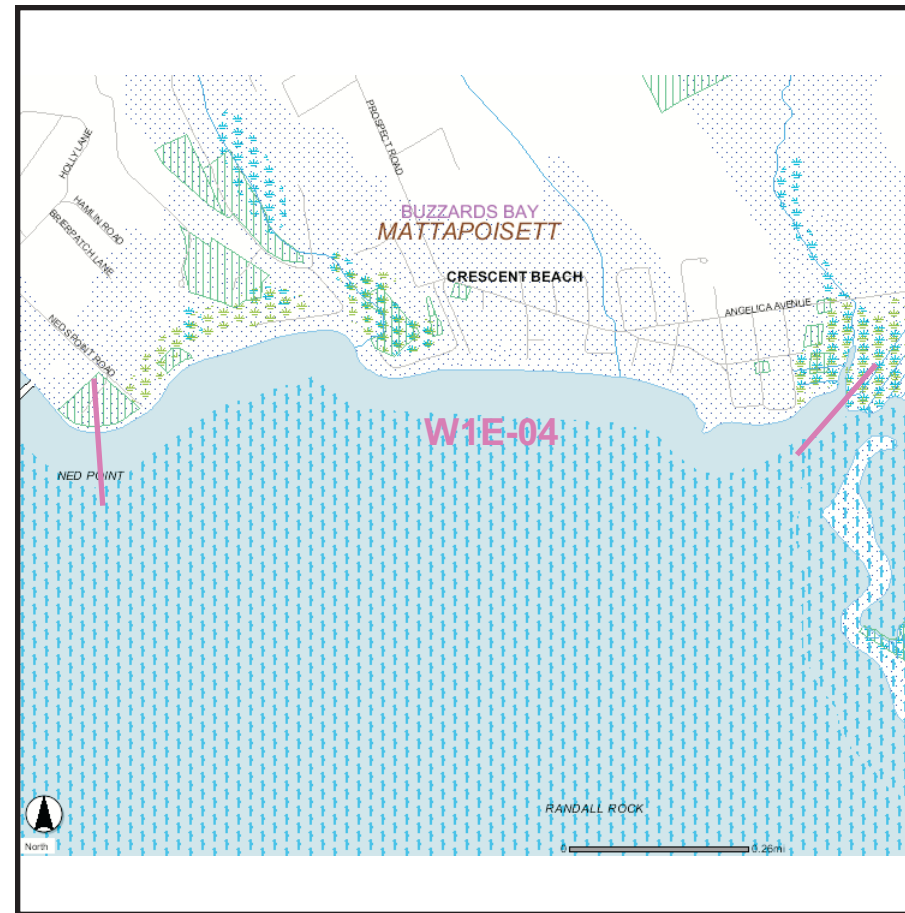
E N T R I X

W1E-04
Crescent Beach
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA

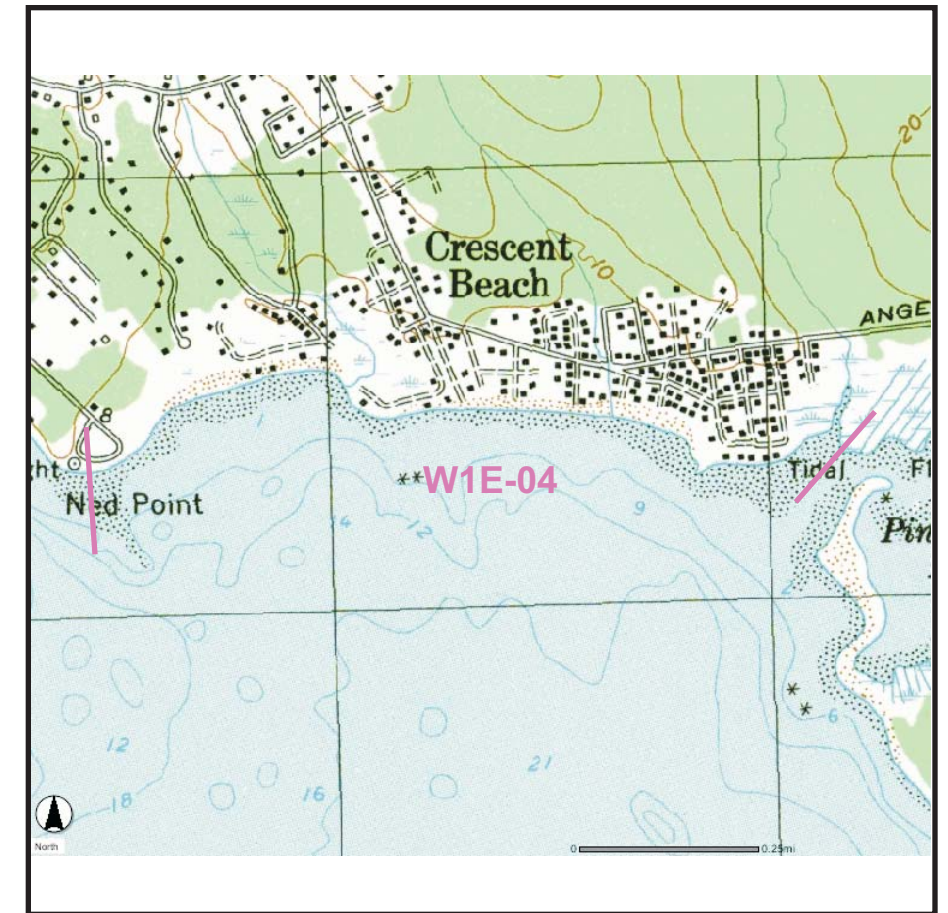
NATURAL HERITAGE AND ENDANGERED SPECIES MAP



2IE PRIORITY RESOURCE MAP



TOPOGRAPHIC MAP










































LEGEND


 NHESP 2005 MA PRIORITY HABITATS FOR STATE-PROTECTED RARE SPECIES

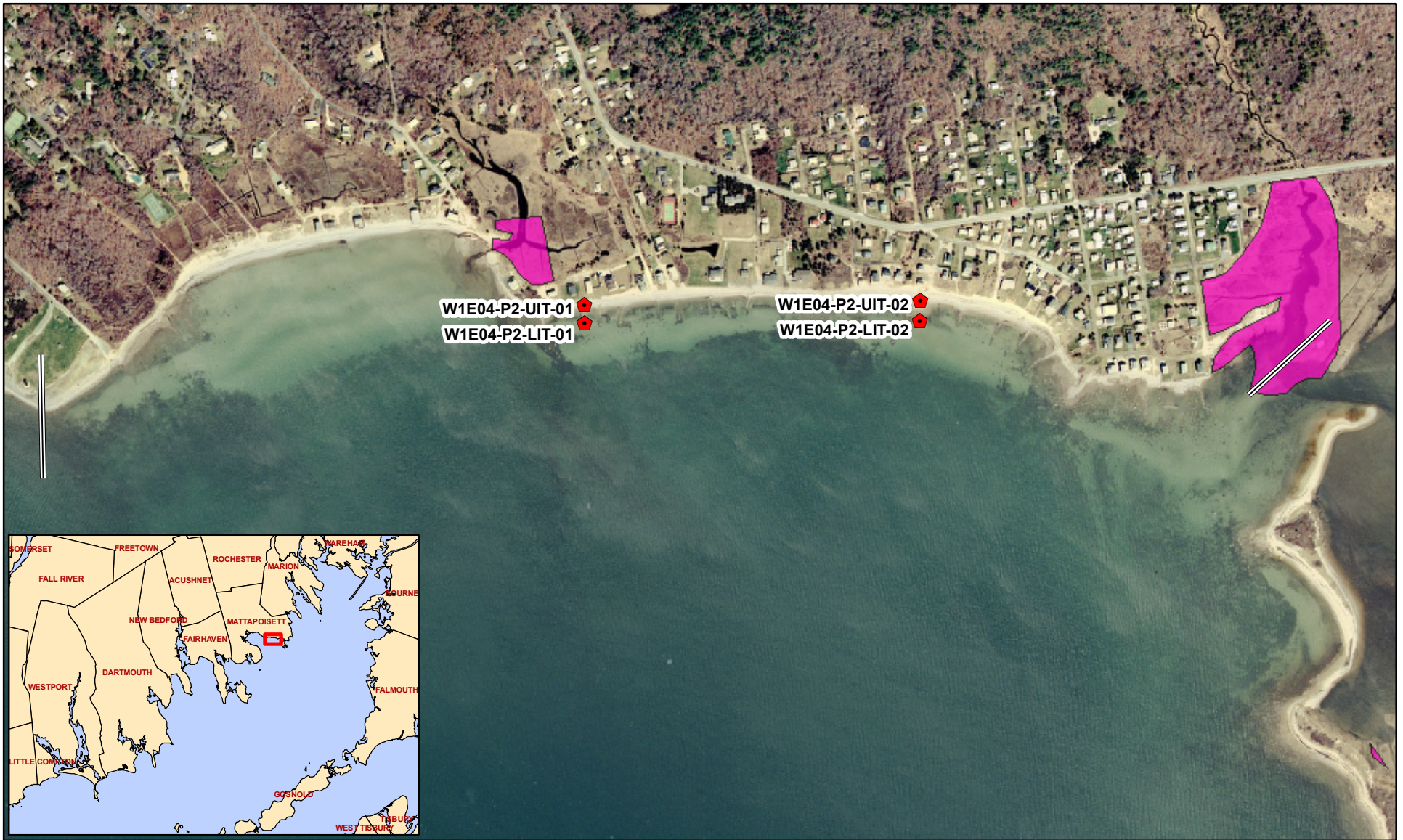
 NHESP 2005 MA ESTIMATED HABITATS OF RARE WILDLIFE

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
-  HIGH YIELD
 -  MEDIUM YIELD
 -  HIGH YIELD
 -  MEDIUM YIELD
 -  100 YEAR FLOODPLAIN
-  WATER
 -  RESERVOIR
 -  WETLANDS
 -  SALT WATER 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

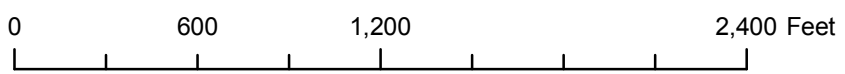


		PROJECT:		
		B120 OIL SPILL		
TITLE:		LOCATION:		
		CRESCENT BEACH BUZZARDS BAY, MA		
PHASE II SUPPORTING MAPS				
DESIGNED:	DRAWN:	CHECKED:	APPROVED:	FIGURE #:
LAC	JKB	KDT	MJW	WIE-04
SCALE:	DATE:	FILE:	PROJECT #:	
AS SHOWN	01/25/06	3871WIE-04	3871-002	



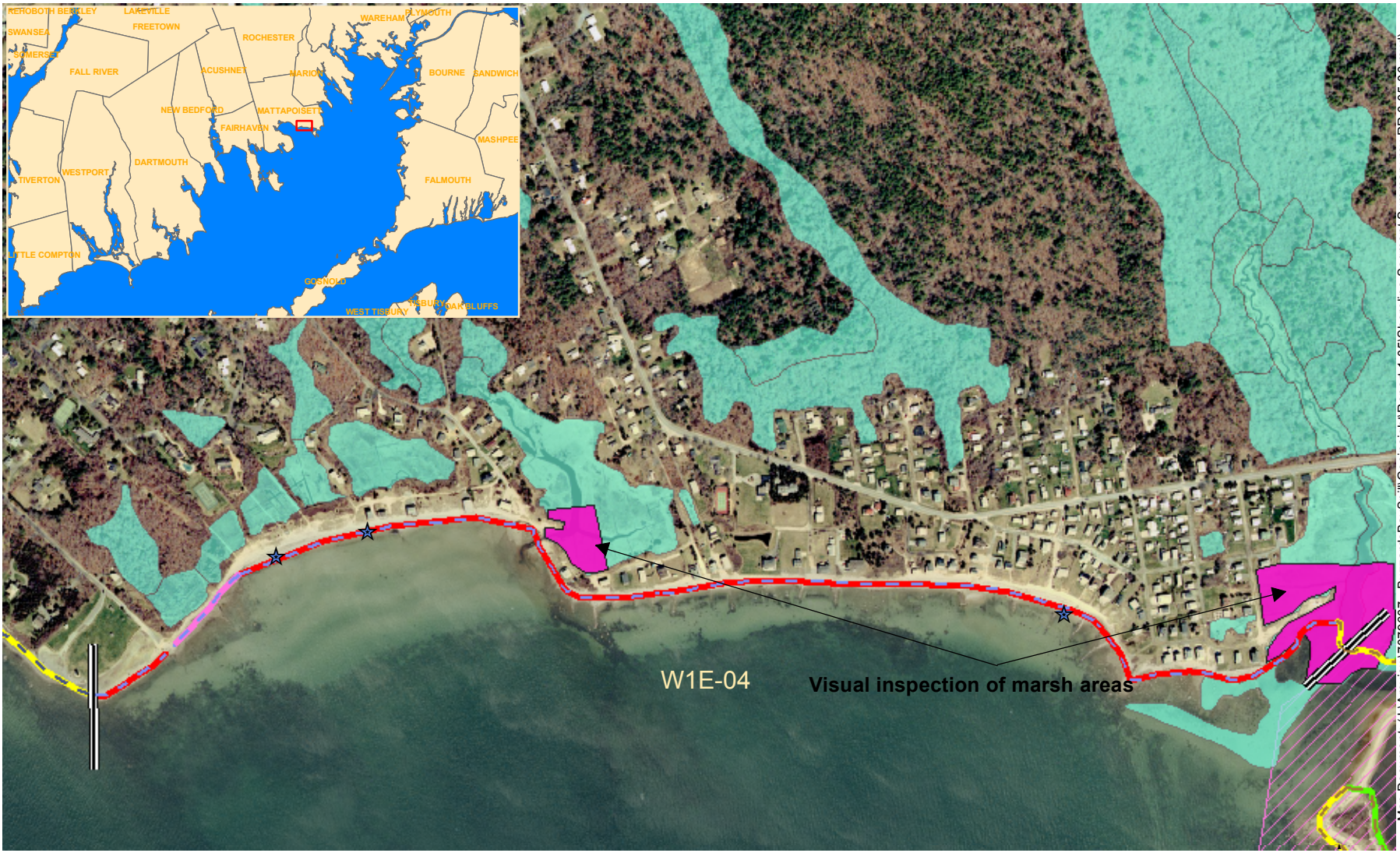
Legend

-  Intertidal Sampling Location
-  Marsh Sampling Location
-  Subtidal Sampling Location
-  Visual Inspection of Marsh Area



ENTRIX

**Phase II Sampling
W1E-04
Crescent Beach
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA**



W1E-04 Visual inspection of marsh areas

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

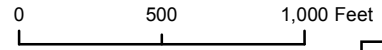
- ✱ Shellfish Sampling Location
- ▲ Chain Drag Location 2003
- ▲ Chain Drag Location 2004
- Lobster Pot Sampling Location 2003
- Absorbent Pad Sampling Location 2003
- Dive Sites
- Wetlands
- Nests
- Vernal Pool
- NHESP 2003 Priority Habitats for State-Protected Rare Species

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

W1E-04
Crescent Beach, Mattapoissett
Comprehensive Activities
Bouchard B No. 120 Oil Spill
Buzzards Bay, MA

Segment: W1E-04 Crescent Beach
Mattapoisett, MA
Phase II Sampling: August 31, 2005



Photo 1: Overview of shoreline type.



Photo 2: Overview of shoreline type.

Segment: W1E-04 Crescent Beach
Mattapoissett, MA
Phase II Sampling: August 31, 2005



Photo 3: Splatter observed on boulder.



Photo 4: Northeast end of segment.