# BOUCHARD B120 RELEASE SHORELINE SEGMENT SUMMARY



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GeoInsight Project Number 3871-002

SEGMENT IDENTIFICATION: W1E-01

SEGMENT NAME: Nye Cove / Strawberry Cove

SEGMENT LOCATION: Mattapoisett, Massachusetts (Map attached)

MAXIMUM DEGREE OF INITIAL OILING: Light (Oiling Score: 1.33)

SEGMENT INSPECTION STATUS: Passed IRAC inspection 08/25/2003.

#### **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:

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

# Hydrogeology:

• The segment is located within Nye's Cove. Pine Island Pond is located to the west and Buzzards Bay to the southeast. Portions of the segment are wetlands (including fringing and back barrier salt marsh).

## 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: Adjacent to segment.

<u>Public Ground Water Supply Wells</u>: None at segment. <u>Public Surface Water Supply Wells</u>: None at segment.

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

Vernal Pools: None at segment.

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

<u>Estimated Habitats of Rare Wildlife</u>: 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):

<u>Segment Use</u>: Private and semi-public beach and marsh. Residential dwellings are located within 500 feet of the segment. Portions of segment appear to be accessible via roadway.

<u>Frequency of Use</u>: 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.)

DATE	SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM					
05/02/2003	Evidence of wildlife was not observed.					
05/07/2003	Sporadic patches of oil were observed between N41°38.950' W70°45.750' and N41°38.670'					
	W70°46.090'. Eighty-one individual birds (14 different species) were observed. Six birds were					
	oiled. Dead birds were not observed.					
05/09/2003	Thirty three individual birds (5 species) were observed. Nine birds were oiled. Dead birds were					
	not observed.					
05/10/2003	Moderate oiling was observed between N41°38.910' W70°45.750' and N41°38.660'					
	W70°46.090'. Approximately one hundred forty four individual birds (6 different species) were					
	observed. Three birds were oiled. Dead birds were not observed.					
05/13/2003	Sporadic patches of oil were observed. Thirty-one individual birds (3 different species) were					
	observed. Dead or oiled birds were not observed.					
05/15/2003						
	observed. Dead or oiled birds were not observed.					
05/16/2003	Oil observed near western point and near eastern shore along fringing salt marsh. Forty five					
	individual birds (9 different species) were observed. Dead or oiled birds were not observed.					
06/03/2003	Fifty-one individual birds (10 different species) were observed. Dead or oiled birds were not					
	observed.					

#### 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	DATE SUMMARY OF INFORMATION RECORDED BY INSPECTION TEAM					
05/20/2003	Shellfish tissue samples collected and analyzed.					
05/22/2003	Less than 1% surface oil coverage was observed. Sporadic patches of oil were observed. Three					
	oiled jellyfish were observed on the shoreline.					
06/09/2003	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
08/25/2003	Splatter and oil mixed with sediment or peat was observed primarily near Angelica Point near
	N41°38.552' W70°45.883'. The oil in the salt marsh was left untouched and natural attenuation
	was recommended for these areas to reduce potential damage to the salt marsh habitat due to
	cleanup activities. 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  06/03/2004  Site reconnaissance: Some splatter (mostly scoured to stain) observed at Angelica Point. Two areas of pavement (approximately 5 by 2 feet and 2-foot square) were observed on salt marsh. An area (approximately 2-foot square) consisting of oil patties mixed with sand and cobble was observed.  07/18/2004  IRA Citizen Report of Oil: Resident in Mattapoisett called GeoInsight to report possible residual B120 oil on the shoreline.  07/18/2004  IRA Citizen Call Field Response: Shoreline inspection at 36 Cove Street in response to the 07/18/2004 call to GeoInsight. A private beach 75% covered in wrack had puddles containing inorganic sheen, not related to oil sheen. Evidence of oil was not observed.  07/27/2004  Site reconnaissance and potential buried oil inspection: A total of 9 trenches (approximately 5 to 10 inches deep and 4 to 8 feet long) were excavated, and 7 areas were raked offshore. Buried oil was not observed. A trace amount of tacky splatter (dime- to quarter-size) was observed on boulders in the upper intertidal zone ranging approximately 5 to 30 feet apart between N41°38.549' W70°45.887' and N41°38.480' W70°45.892'. Patches of pavement (1 to 4 inches in diameter) embedded in the top layer of marsh were observed within a 5-foot square area at N41°38.534' W70°45.891'.  08/24/2004  Marsh sediment sampling activities: One core marsh sample was collected at N41°38.981' W70°45.981'. Evidence of oil was not observed.							
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# TABLE 1 SAMPLE SUMMARY

# **BUZZARDS BAY, MASSACHUSETTS**

# SEGMENT: W1E-01 Nye Cove/Strawberry Cove

Sample ID	Date Collected	Matrix A	Analysis	Laboratory	Sampling Program	Sample Location Coordinates		Sample Location Description	Comments
						Latitude	Longitude	Description	
PCMA-QH-1-A, B and C	5/20/2003	- Tissue	РАН	B&B	NRDA Pre- Assessment	N41°38.942'	W71°45.092'	Near Angelica Point	Shellfish- Quahog
PCMA-QH-2-A,B,and C	6/9/2003					N41°38.942'	W71°45.092'		
W1E-01-C05	8/24/2004	Sediment	PAH EPH	B&B GAI	MCP- At Risk Phase II	N41°38.981'	W70°45.985'	Near Angelica Point	Marsh Core

## NOTES:

1. B&B: B&B Laboratories.

2. GAI: Groundwater Analytical, Inc.

#### TABLE 2 SUMMARY OF ANALYTICAL RESULTS BUZZARDS BAY, MASSACHUSETTS SEGMENT: W1E-01

Nye Cove/Strawberry Cove

	PCMA-QH-1-A, B, and C	PCMA-QH-2-A, B, and C		
Analyte	Quahog	Quahog		
	5/20/2003	6/9/2003		
ЕРН				
C <sub>9</sub> -C <sub>18</sub> Aliphatic Hydrocarbons	NS	NS		
C <sub>19</sub> -C <sub>36</sub> Aliphatic Hydrocarbons	NS	NS		
C <sub>11</sub> -C <sub>22</sub> Aromatic Hydrocarbons	NS	NS		
PAH by GC/MS-SIM				
by method 8270C				
Naphthalene	0.0018	0.0033		
2-Methylnapthalene	0.0022	0.0030		
Acenaphthylene	0.0001j	0.0001j		
Acenaphthene	0.0003j	0.0005		
Fluorene	0.0003j	0.0002j		
Phenanthrene	0.0043	0.0009		
Anthracene	0.0002	0.0001j		
Fluoranthene	0.0045	0.0012j		
Pyrene	0.0127	0.0024		
Benzo(a)anthracene	0.0092	0.0012		
Chrysene	0.0368	0.0067		
Benzo(b)fluoranthene	0.0053	0.0011		
Benzo(k)fluoranthene	0.0030	0.0009		
Benzo(a)pyrene	0.0037	0.0007		
Indeno(1,2,3-c,d)pyrene	0.0009	0.0004j		
Dibenzo(a,h)anthracene	0.0003j	0.0001j		
Benzo(g,h,i)perylene	0.0010	0.0006		
Total PAH	1.020	0.168		

#### 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. NS: Not Sampled.

#### TABLE 2 (continued)

# SUMMARY OF ANALYTICAL RESULTS BUZZARDS BAY, MASSACHUSETTS

SEGMENT: W1E-01 Nye Cove/Strawberry Cove

Analyte	W1E-01-C05  Marsh Core Sediment	MCP Method 1 Standards		MCP Method 1 Standards  Effects Ra Benchmarl Sedin	
	8/24/2005	S-1 / GW-1   S-1 / GW-2   S		S-1 / GW-3	ER-L
ЕРН					
C <sub>9</sub> -C <sub>18</sub> Aliphatic Hydrocarbons	ND(73)	1,000	1,000	1,000	NA
C <sub>19</sub> -C <sub>36</sub> Aliphatic Hydrocarbons	ND(73)	2,500	2,500	2,500	NA
C <sub>11</sub> -C <sub>22</sub> Aromatic Hydrocarbons	ND(73)	200	800	800	NA
PAH by GC/MS-SIM					
by method 8270C					
Naphthalene	ND(0.025)	4	40	500	0.160
2-Methylnapthalene	0.008 j	4	500	500	0.070
Acenaphthylene	ND(0.025)	100	100	100	0.044
Acenaphthene	ND(0.025)	20	1,000	1,000	0.016
Fluorene	ND(0.025)	400	1,000	1,000	0.019
Phenanthrene	0.0012 j	700	1,000	100	0.240
Anthracene	ND(0.025)	1,000	1,000	1,000	0.085
Fluoranthene	0.017 j	1,000	1,000	1,000	0.600
Pyrene	0.017 j	1,000	1,000	1,000	0.665
Benzo(a)anthracene	0.006 j	7	7	7	0.261
Chrysene	0.006 j	7	7	7	0.384
Benzo(b)fluoranthene	0.012 j	7	7	7	NA
Benzo(k)fluoranthene	ND(0.025)	70	70	70	NA
Benzo(a)pyrene	0.008 j	2	2	2	0.430
Indeno(1,2,3-c,d)pyrene	0.008 j	7	7	7	NA
Dibenzo(a,h)anthracene		0.7	0.7	0.7	0.063
Benzo(g,h,i)perylene	` '	1,000	1,000	1,000	NA

#### NOTES:

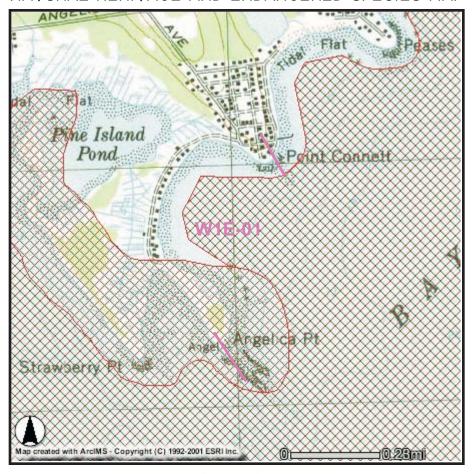
- $1. \ Results \ in \ mg/Kg \ (milligrams \ per \ kilogram).$
- 2. EPH: Extractable Petroleum Hydrocarbons.
- 3. ND(x): Constituent not detected at practical quantitation limits (PQL) noted in parentheses.
- 4. PAH by GC/MS-SIM: Polynuclear Aromatic Hydrocarbon analysis by Gas Spectrometry with Selected Ion Monitoring.
- 5. j: Estimated concentration/ detected below standard laboratory reporting limits.
- 6. Bold values exceed laboratory PQL.
- 7. MCP: Massachusetts Contingency Plan.
- 8. ER-L: Effects Range Low (Long and Morgan 1991).
- 9. NA: Not Applicable.





W1E-01 Nye Cove/Strawberry Cove Bouchard B No. 120 Oil Spill Buzzards Bay, MA

## NATURAL HERITAGE AND ENDANGERED SPECIES MAP

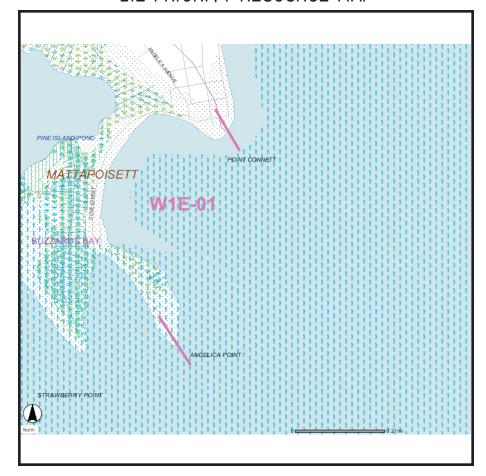


#### LEGEND

NHESP 2005 MA PRIORITY
HABITATS FOR STATE-PROTECTED
RARE SPECIES

NHESP 2005 MA ESTIMATED HABITATS OF RARE WILDLIFE

## 2IE PRIORITY RESOURCE MAP





## TOPOGRAPHIC MAP

