USGS
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COASTAL AND MARINE GEOLOGY PROGRAM
WOODS HOLE FIELD CENTER (WHFC)

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05007SMP

VIDEO/CAMERA/SAMPLE LOG

SHIP AND CRUISE: RAFAEL RAFL 05007

AREA: Quick's Hole, Cuttyhunk Township, Elizabeth Islands, Buzzards Bay, MA

DATES: June 2005

CHIEF SCIENTIST: L. Poppe

STATION LOG Start date June 14 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH41						

Depth, m	Depth, m	Depth, m
13		

VIDEO LOCATION:
Start Lat. N 41°26.252' Long. W 70°49.276'
End Lat. N 41 Long. W ____

SAMPLE LOCATION:
Lat. N 41°26.252' Long. W 70°49.339'

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Sand ripples (current) shell debris moon snail casings organics

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°26 251'	70°49300'	
2				41°26 251'	70°49308'	
3				41°26.251'	70°49.362	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH39						

Depth, m	Depth, m	Depth, m
12		

VIDEO LOCATION:
Start Lat. N 41° 26.502 Long. W 70° 49.065
End Lat. N ## Long. W ____

SAMPLE LOCATION:
Lat. N 41° 26.508 Long. W 70° 49.076

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Sand, shells/shell debris
Skate, amphipod tubes. Low, broad ripples
shells, amphipods in troughs. Burrows, worms, moon snails

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1	1			41° 26.503	70° 49.067	
2	2			41° 26.505	70° 49.071	
3	3			41° 26.507	70° 49.075	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH40						

Depth, m	Depth, m	Depth, m
10.9		

VIDEO LOCATION:
Start Lat. N 41° 26. 461 Long. W 70° 48.832
End Lat. N 41° 26. 461 Long. W 70° 48.860

SAMPLE LOCATION:
Lat. N 41° 26. Long. W 70° 48.

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No Sample

DESCRIPTION OF BOTTOM: Sand, Boulders, Shell fragments
Sponges, starfish, barnacles, sm. fish, dead man's hand

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26. 460	70° 48. 841	
2				41° 26. 460	70° 48. 844	
3				41° 26. 460	70° 48. 849	
4				41° 26. 461	70° 48. 852	
5			+ 1 pic			
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH 1 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH 42						

Depth, m	Depth, m	Depth, m
17.2		

VIDEO LOCATION:
Start Lat. N 41° 26. 242 Long. W ~~41° 26.~~ 070° 48. 836
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 26. 244 Long. W ~~41° 26.~~ 070° 48. 867

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ~~Current~~

DESCRIPTION OF BOTTOM: Current ripples, shell debris in troughs, fine gravel Moon snails, razor clams. Sand waves, small crabs in troughs

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1	1			41° 26. 242	070° 48. 842	
2	2			41° 26. 243	070° 48. 854	
3	3			41° 26. 243	070° 48. 864	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH43						

Depth, m	Depth, m	Depth, m
30.7		

VIDEO LOCATION:
Start Lat. N 41° 25. 873 Long. W 070° 48. 655
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 25. 869 Long. W 070° 48. 687

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Some gravel

DESCRIPTION OF BOTTOM: Ripples, abundant shell fragments
Moon snail casings, Quahog shells, moon snails

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1	1			41° 25. 871	070° 48. 670	
2	2			41° 25. 871	070° 48. 672	
3	3			41° 25. 870	070° 48. 604	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 DVD# QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH44						

Depth, m	Depth, m	Depth, m
23.2		

VIDEO LOCATION:
Start Lat. N 41° 25.737 Long. W 070° 49.020
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41 25.734 Long. W 070° 49.035

SAMPLES TAKEN:
Texture: √ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Abundant shell fragments

DESCRIPTION OF BOTTOM: Current ripples; shell debris in troughs, metal debris moon shell casings; sand waves

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1	1			41° 25.737	070° 49.025	
2	~~2~~			~~41° 25.~~	~~070° 49.~~	
3	~~3~~			~~41° 25.~~	~~070° 49.~~	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. DVD# QH2 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA
(8 mm QH1 Hi-8 mm ____)

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH46						2727

Depth, m	Depth, m	Depth, m
17.9		

VIDEO LOCATION:
Start Lat. N 41°25.790 Long. W 070° 49.319
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°25.785 Long. W 070° 49.365

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Sand Current ripple sand crests sandier waves
moon-snail casings shell debris in trough
more abundant shell debris in wave troughs
mussel shells

STILL PHOTOS: Roll No. ____ Film Type ____ (B71 start 365 end)

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1	1			41°25.789	070°49.330	
2	2			41°25.787	070°49.339	
3	3			41°25.781	070°49.356	- between waves
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. DVD Disk QH2 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA
(8 mm QH1 Hi-8 mm ____)

PROJECT: _____

DGPS NAV FIX UPDATE INTERVAL: _____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH62						

Depth, m	Depth, m	Depth, m
14.9		

VIDEO LOCATION:
Start Lat. N 41°25 674 Long. W 70°49 356
End Lat. N _____ Long. W _____

SAMPLE LOCATION:
Lat. N 41°25.666' Long. W 70°49.408'

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: _____

DESCRIPTION OF BOTTOM: SAND WAVES ripple wavelength increase toward crest
current ripple on larger ripple
moon snail casings, mussel shells
more shell debris in sand wave troughs

STILL PHOTOS: Roll No. _____ Film Type _____ Start 369 Stop 366

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°25 669	70°49.379	
2				41°25 667	70°49 394	
3				41 25 667	70°49 462	near wave crest
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 DVD DISK QH2
(8 mm ____ Hi-8 mm ____)

STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH45						

Depth, m	Depth, m	Depth, m
13.0		

Sampler pretrip on 1st deployment

VIDEO LOCATION:
Start Lat. N 41°25.596' Long. W 70°49 305
End Lat. N 41 25 584 Long. W 70°49 399

SAMPLE LOCATION:
Lat. N 41°25.590' Long. W 70°49.302'

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: Sand current ripple on megaripple skate moon snail casing 1st part on wave crest

DESCRIPTION OF BOTTOM: shell debris (patchy) & concentrated moon snail (congregation)

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°25 594	70°49 342	
2				41°25 590	70°49 357	Sand wave trough
3				41°25 585	70°49 380	
4				41°25 584	70°49 388	crest
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 DVD Disk QH2 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA
(8 mm ____ Hi-8 mm ____)

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH47						

Depth, m	Depth, m	Depth, m
22.8		

VIDEO LOCATION:
Start Lat. N 41°25 715 Long. W 70°49.751'
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°25.722' Long. W 70°49.780'

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ____ Organics (LOI): ____ Biology: ____

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Sand, rippled current ripple moon snail casing patchy loose organics shell debris in troughs eel grass, skate sea lettuce sea urchin

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°25 716	70°49 756	
2				41°25 719	70°49 771	
3				41°25720	70°49 776	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 (8 mm ____ Hi-8 mm ____) DVD QH2 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH53				47:06		

Depth, m	Depth, m	Depth, m
20.5		

VIDEO LOCATION:
Start Lat. N 41°25.502 Long. W 70°50.239
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°25.509 Long. W 70°50.250

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Sand

DESCRIPTION OF BOTTOM: Sand ripples, shell debris in trough Moon snails/snail casings, razor clam shell, nondescript seaweed

STILL PHOTOS: Roll No. ____ Film Type ____ START 360

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°25.503	70°50.241	
2				41° 25.505	70° 50.244	
3				41° 25.507	70° 50.247	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 DVD Disk QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH54				50:03		

Depth, m	Depth, m	Depth, m
15.8		

VIDEO LOCATION:
Start Lat. N 41°25.204' Long. W 70°50.161'
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°25.209' Long. W 70°50.165'

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: Sand current ripples sinuous crests moon snail casing from 1 shell

DESCRIPTION OF BOTTOM: dibric

START 357

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°25.205'	70°50.162'	
2				41°25.207'	70°50.164'	
3				41°25.208'	70°50.167'	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 DVD QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH52						

Depth, m	Depth, m	Depth, m
18.2		

VIDEO LOCATION:
Start Lat. N 41°25.475 Long. W 070°50.741
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°25.496 Long. W 070°50.728

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: medium grained sand

DESCRIPTION OF BOTTOM: Sand ripples, shells in trough
~~Stones~~ Occasional unk. seaweed clusters

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°25.479	70°50.738	
2				41°25.481	70°50.737	
3				41°25.483	70°50.736	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 / DVD QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH51						

Depth, m	Depth, m	Depth, m
12.2		

VIDEO LOCATION:
Start Lat. N 41° 25.620 (41.427) Long. W 70° 51.073 (-70.851217)
End Lat. N 41° 25.662 Long. W 70° 51.053

SAMPLE LOCATION:
Lat. N ~~41° 25.~~ Long. W ~~70° 51.~~

SAMPLES TAKEN:
Texture: X Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Moon snails/snail coatings; sponges on boulders

DESCRIPTION OF BOTTOM: Sand; small rocks; undulating bottom, faint current ripples; small rocks w/ red seaweeds
Isolated rocks w/ rippled sandy seafloor in between.

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 25.622	070° 51.073	
2				41° 25.625	70° 51.073	
3				41° 25.640	70° 51.068	Epiotc ?
4				41° 25.641	70° 51.067	
5				~~41° 25.~~	~~70° 51.~~	
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 / DVD QH2 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA
(8 mm ____ Hi-8 mm ____)

PROJECT: _____

DGPS NAV FIX UPDATE INTERVAL: _____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH50				1:03		

Depth, m	Depth, m	Depth, m
5.5		

VIDEO LOCATION:
Start Lat. N 41° 25.861 Long. W 70° 50. 660
End Lat. N 41° 25.891 Long. W 70° 50. 645

SAMPLE LOCATION:
Lat. N _____ Long. W _____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No sample taken

DESCRIPTION OF BOTTOM: Rocky w/kelp, abundant yellow, red, & green seaweeds; Irish moss seaweed. Gravel between rocks

end 350

STILL PHOTOS: Roll No. _____ Film Type _____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°25.866	70° 50. 660	2 pics
2				41° 25.870	70° 50. 658	
3				41° 25.073	70° 50. 656	
4				41° 25.887	70° 50. 648	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. 8H1 / DVD 0112 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH49						

Depth, m	Depth, m	Depth, m
9.8		

VIDEO LOCATION:
Start Lat. N ~~41°25.~~ 41°25.794 Long. W 70° 50.490
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 25. 819 Long. W 70° 50. 461

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Medium-textured sand

DESCRIPTION OF BOTTOM: Sinuous-crested sand ripples, symmetrical
Occasional drifting seaweeds

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 25. 798	70° 50. 486	
2				41° 25. 806	70° 50. 478	
3				41° 25. 810	70° 50. 473	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1/DVD QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH48				1 hr 10 min		

Depth, m	Depth, m	Depth, m
10.2		

VIDEO LOCATION:
Start Lat. N 41° 25.905 (41.43175) Long. W 70° 50.061 (-70.833867)
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 25.916 Long. W 70° 50.032

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Dead mussels, mussel shells, sand

DESCRIPTION OF BOTTOM: Abundant shell debris over undulating sand/gravel bottom. Mussel shells, skate, drifting red seaweed.

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 25' 906	70° 50.063	
2				41° 25' 908	70° 50.058	
3				41° 25' 912	70° 50.045	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 / DVD QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH58						1:13.02

Depth, m	Depth, m	Depth, m
12.1		

VIDEO LOCATION:
Start Lat. N 41° 26. 112 Long. W 70° 49. 706
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 26.135 Long. W 70° 49.646

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Medium grain brown sand

DESCRIPTION OF BOTTOM: Sand current ripples w/shell debris in troughs
Patchy shell debris. Moon snails negative ripples
Sand waves. Big skate

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26. 115	70° 49. 700	
2		Power failed on camera		41° 26. 130	70° 49. 662	
3		NO still		41° 26. 132	70° 49. 656	
4						4 still photos?
5		Video frame grab				
6						
7			PICT 0235			
8			PICT 0236			

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 / DVD QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH38						1115.39

Depth, m	Depth, m	Depth, m
8.5		

VIDEO LOCATION:
Start Lat. N 41°26.426 Long. W 70° 49.746
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No sample

DESCRIPTION OF BOTTOM: Boulders w/ kelp, sand btwn boulders
Shell matter w/sand btwn boulders, Ulva sea lettuces

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°24.429	70 49.743	
2		Power up on		41°26.430	70° 49.740	
3		on camera	sv.lb	41°26.432	70° 49.737	
4		no		41° 26.436	70° 49.729	
5				41° 26.438	70° 49.726	
6		Video From Grapher				
7			PICT0237	PICT0239		
8			PICT0238			

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 / DVD QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH37						

Depth, m	Depth, m	Depth, m
12.5		

49? should have been 50.4?

VIDEO LOCATION:
Start Lat. N 41°26.254 Long. W 70° 50.942
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 26 .263 Long. W 70° 50 .903

SAMPLES TAKEN:
Texture: √ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Poor sample - gravels Gravel by sand. Large chunk of gravel caught in jaws; much of sample washed out

DESCRIPTION OF BOTTOM: Sand, gravel, scattered shell debris, current-swept appearance. Scattered seaweed. Patchy gravel

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26. 258	70° 50. 927	
2		No Stills		41° 26. 259	70° 50. 921	
3				41° 26. 261	70° 50. 913	
4						
5						
6		Vid from		Grab		
7				PICT0240		
8				PICT0241		

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 / DVD QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH59						

Depth, m	Depth, m	Depth, m
11.4		

VIDEO LOCATION:
Start Lat. N 41° 26.348 Long. W 70° 50.027
End Lat. N 41° 26.372 Long. W 70° 49.982

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No Sample.

DESCRIPTION OF BOTTOM: Gravel, sand, scattered red seaweed Starfish; kelp, Ulva. Moon snail casing, abundant mussel shells Boulders

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26. 349	70° 50.024	
2			No Still	41° 26. 354	70° 50.015	
3			Photos	41° 26. 358	70° 50. 008	
4				41° 26. 362	70° 50. 001	
5				41° 26. 367	49. 992	
6				41° 26. 369	49. 988	
7			Video From Grabs			
8			PICT0242	PICT0243		

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 / DVD QH2 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA
(8 mm ____ Hi-8 mm ____)

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH35						1:23.36

Depth, m	Depth, m	Depth, m
11.7		

Station mislabeled on Video

VIDEO LOCATION:
Start Lat. N 41° 26.335 Long. W 70° 50.171
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 26.338 Long. W 70° 50.139

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: Gravel - no sample

DESCRIPTION OF BOTTOM: Sand, gravel, shell debris, drifting seaweed
Moon snail, grey starfish

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°26.335	70° 50.168	
2				41°26.336	70° 50.162	
3				41° 26.336	70° 50.154	
4						
5			Video	From Grab		No photos
6				PICT0244		
7				PICT0245		
8						

STATION LOG Start date June 2005 (JD = 165)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 / DVD QH2 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH36						

Depth, m	Depth, m	Depth, m
12.9		

VIDEO LOCATION:
Start Lat. N 41° 26.043 Long. W 70°50.291
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No sample

DESCRIPTION OF BOTTOM: Gravel, red seaweed, boulders occasionally Yellow starfish. Shells & gravel, some cobbles

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26.042	70° 50 285	
2				41° 26.040	70° 50 277	
3				41° 26.037	70° 50.257	
4				41° 26.033	70° 50.236	
5						
6			Video	From Grab.	No Still photos	
7				PICT 0246		
8				PICT 0247		

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 (8 mm ____ Hi-8 mm ____) DVD Disk QH3 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH3						

Depth, m	Depth, m	Depth, m
17.0		

VIDEO LOCATION:
Start Lat. N 41°27 150 Long. W 70°51 632
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°27 156 Long. W 70°51 588

SAMPLES TAKEN:
Texture: X Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Sandy - ripples on sand - some gravel (but probably shells) silty sand

DESCRIPTION OF BOTTOM: worms - some shell frags. - some fish amphipod tubes ←

START 345

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°27 151	70°51 624	
2				41°27 153	70°51 612	✓
3				41°27 154	70°51 598	
4				41°27 155	70°51 594	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. (8 mm ____ Hi-8 mm QH1 DVD DISK QH3) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH1						

Depth, m	Depth, m	Depth, m
6.9		

VIDEO LOCATION:
Start Lat. N 41°26 812 Long. W 70°51 694
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°26 830 Long. W 70°51 695

SAMPLES TAKEN:
Texture: X Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Sand, boulders, muddy sands - silt coating over everything, gravel

DESCRIPTION OF BOTTOM: shells, weeds - gray, possible burrows, yellow sponges.

END@339

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°26 816	70°51 697	
2				41°26 829	70°51 703	
3				41°26 835	70°51 701	
4				(838? did it take?)	(698?)	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. (8 mm ____ Hi-8 mm QH1) DVD DISK QH3 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH63						

Depth, m	Depth, m	Depth, m
15.7		

VIDEO LOCATION:
Start Lat. N 41°26 943 Long. W ~~41°7~~ 70°51 831
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°26 959 Long. W 70°51 794

SAMPLES TAKEN:
Texture: X Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: muddy, fine sand, dark olive gray

DESCRIPTION OF BOTTOM: Smooth w/ many burrows, occasional seaweed present, some shells - in patches, amphipod tubes

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°26 946	70°51 823	
2				41°26 948	70°51 814	
3				41°26 952	70°51 807	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. (8 mm ____ Hi-8 mm ____) QH1 DVD DISK QH3 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH2						136.41

Depth, m	Depth, m	Depth, m
15.0		

VIDEO LOCATION:
Start Lat. N 41°27 036 Long. W 70°51 968
End Lat. N ____ Long. W ____

SAMPLE LOCATION: didn't trip
Lat. N (1) 41°27 046 Long. W 70°51 934
(2) 41°27 054 70°51 894

SAMPLES TAKEN:
Texture: X Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: muddy, mounds of sand - no mud seems to be present

DESCRIPTION OF BOTTOM: burrows, patches of seaweed, scattered shell debris

STILL PHOTOS: Roll No. ____ Film Type ____ Start 338

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°27 037	70°51 964	
2				41°27 042	70°51 949	
3				41°27 044	70°51 942	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH1 DVD DISK STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA
(8 mm ____ Hi-8 mm ____) QH3

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH4						1:44.10

Depth, m	Depth, m	Depth, m
15.8		

VIDEO LOCATION:
Start Lat. N 41°27 173 Long. W 70°52 223
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°27 203 Long. W 70°52 217

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: muddy sand - Sample collected outside of trench

DESCRIPTION OF BOTTOM: ~~bottom~~ flat w/ burrows, ~~occasional seaweed, broken shell debris~~, change in elevation occurs and Very flat, muddy sand w/ many burrows exists - in the "trench" of the feature a lot of seaweed is present w/ abundant shell frags - shell frags do not exist outside trench. Start 335

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°27 171	70°52 214	
2				41°27 167	70°52 204	
3				41°27 151	70°52 180	
4				41°27 180	70°52 281	
5						
6						
7						
8						

re examine video ~ 1910 for change in bathymetry

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. (8 mm ____ Hi-8 mm ____) QH1 DVD DISK QH3 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH5						1:47:41

end of tape QH1

Depth, m	Depth, m	Depth, m

VIDEO LOCATION:
Start Lat. N 41°27 191 Long. W 70°52 085
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°27 237 Long. W 70°52 089

SAMPLES TAKEN:
Texture: ___ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: muddy sands

DESCRIPTION OF BOTTOM: burrows - many lobster burrows present @ edge of trench - similar to QH4 - seaweed and abundant shells frags in trench.

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°27 192	70°52 082	
2				41°27 238	70°52 083	
3				41°27 235	70°52 087	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 DVD DISK QN3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH33						

Depth, m	Depth, m	Depth, m
17.9		

-10.842917

VIDEO LOCATION:
Start Lat. N 41° 26.180 41.436333° Long. W 70° 50.569
End Lat. N 41° 26 .211 Long. W 70° 50 .636

SAMPLE LOCATION:
Lat. N 41° 26 Long. W 70° 50

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No sample taken

DESCRIPTION OF BOTTOM: Gravel & sand, abundant shells BIG stripes, starfish. Occasional boulders, shoal of fingerlings

STILL PHOTOS: Roll No. ____ Film Type END 324

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26 .180	70° 50.569	
2				41° 26 .184	70° 50 .579	
3				41° 26 .188	70° 50 .588	
4				41° 26 .192	70° 50 .596	
5				41° 26 .199	70° 50 .610	
6				41° 26 .201	70° 50 .615	?
7				41° 26 .208	70° 50 .630	
8						

2 Reference Photos Taken Before Arriving on Deck (Sheet shows STATION DATE TIME 759 Local for 2nd)

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/DVD QH3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH34						05:59 m

Depth, m	Depth, m	Depth, m
5.2		

VIDEO LOCATION:
Start Lat. N 41° 26.100 Long. W 70°50.882
End Lat. N 41° 26.137 Long. W 70° 50.913

SAMPLE LOCATION:
Lat. N 41° 26.095 Long. W 70° 50.879 → did not take

SAMPLES TAKEN: 41° 26.105, 41° 26.109
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___
70° 50.891 → did not take
70° 50.894 → did not take

SAMPLING COMMENTS: 41° 26.077 70° 50.866 → 4th try worked
Medium brown sand

DESCRIPTION OF BOTTOM: Sand, ripples, ~~[illegible]~~, trace organics
Coming into rocks, tunicates, eelgrass, kelp, ulva, red seaweeds

STILL PHOTOS: Roll No. ____ Film Type ____ End @ 319

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26.104	70° 50.885	
2				41° 26.106	70° 50.889	
3				41° 26.113	70° 50.898	
4				41° 26.117	70° 50.897	
5				41° 26.121	70° 50.901	
6				41° 26.126	70° 50.906	
7				41° 26.131	70° 50.910	
8						

STATION LOG Start date June 16 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH3 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA
(8 mm ____ Hi-8 mm ____)

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH31						

Depth, m	Depth, m	Depth, m
17.0		

VIDEO LOCATION:
Start Lat. N 41° 26. 378 (41.439633) Long. W 70° 50. 712 (8452)
End Lat. N 41° 26 .424 Long. W 70° 50 .763

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No sample taken

DESCRIPTION OF BOTTOM: Boulders, shell debris, gravel, gracilaria fish, starfish, small fish, ulva

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26. 381	70° 50. 715	
2				41° 26. 387	70° 50. 721	
3				41° 26. 394	70° 50. 724	
4				41° 26 .402	70° 50 .738	
5				41° 26 .420	70° 50 .758	
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH32						

Depth, m	Depth, m	Depth, m
9.4		

VIDEO LOCATION:
Start Lat. N 41° 26. 450 Long. W 70° 50. 528
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 26. 460 Long. W 70° 50. 556

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Sand, gravel, mussel shells

DESCRIPTION OF BOTTOM: Sand, shell debris, moonsnail casings, moving into gravel bed

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26. 453	70° 50. 535	
2				41° 26. 455	70° 50. 542	
3				41° 26. 458	70° 50. 549	
4				41° 26. 459	70° 50. 553	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = ~~165~~ 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH30						12.53

Depth, m	Depth, m	Depth, m
10.8		

VIDEO LOCATION:
Start Lat. N 41° 26.3666 (41.439433°) Long. W 70° 51.052 (-70.850867)
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: Sand, ~~shell~~

DESCRIPTION OF BOTTOM: Sand, shell fragments, gravel, some scattered seaweed, starfish

STILL PHOTOS: Roll No. ____ Film Type ____ last 309

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 26. 368	70° 51. 055	
2				41° 26. 372	70° 51. 059	
3				41° 26. 373	70° 51. 061	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. (8 mm ____ Hi-8 mm QH2) DVD DISK QH3 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH60						15:48

Depth, m	Depth, m	Depth, m
13.3		

VIDEO LOCATION:
Start Lat. N 41°26.683' Long. W 70°50.948'
End Lat. N ~~41°26.692'~~ Long. W ~~70°50.960'~~

SAMPLE LOCATION:
Lat. N 41°26 Long. W 70°50

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No Sample

DESCRIPTION OF BOTTOM: Gravel Boulders Cobbles
mussel shells sponge
occasional loose seaweed

STILL PHOTOS: Roll No. ____ Film Type ____ START 309

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°26.685	70°50'950	
2				41°26.686	70°50 951	
3				41°26.688	70°50 953	
4				41°26.690	70°50 953	
5				41°26.691	70°50 958	
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QN2 DVD Disk QN3 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

(8 mm ____ Hi-8 mm ____) PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QN29						1951

Depth, m	Depth, m	Depth, m
16.6		

VIDEO LOCATION:
Start Lat. N 41°26 836' Long. W 70°50 859'
End Lat. N 41°26 860' Long. W 70°50 866

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No sample

DESCRIPTION OF BOTTOM: Boulders sand & gravel bottom mussel shell debris sponges scallop starfish

STILL PHOTOS: Roll No. ____ Film Type ____ START 305

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°26 840	70°50 857	
2				841	856	
3				844	855	
4				846	856	
5				850	859	
6				855	853	
7				860	869	
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 (8 mm ____ Hi-8 mm ____) DVD DISK QH3

STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH28						2302

Depth, m	Depth, m	Depth, m
7.5		

VIDEO LOCATION:
Start Lat. N 41°26947' Long. W 70°51084'
End Lat. N 41°26.969' Long. W 70°51.072'

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Sand Boulder Large sand ripple
seaweed scallop, mussel debris
chain

START 299

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°26.949'	70°51.087'	
2				↓ 952	↓ 082	
3				↓ 959	↓ 074	
4				41°26.962	70°51.073	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 DVD D1S1C (8 mm ____ Hi-8 mm QN3) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH27	165					25:26

Depth, m	Depth, m	Depth, m
13.1		

VIDEO LOCATION:
Start Lat. N 41°27.221' Long. W 70°50.606'
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: 41°27.227' 70°50.620'

DESCRIPTION OF BOTTOM: Sand gravel
Abundant Sponges seaweed flounder

START 296

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°27.220'	70°50.608'	
2				221	611	
3				224	614	
4				225	618	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. 2H2 DVD DISK 2H3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
2H12						29:36

Depth, m	Depth, m	Depth, m
19.9		

VIDEO LOCATION:
Start Lat. N 41°27.433 Long. W 70°50.786
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°27.445 Long. W 70°50.794
41°27.424 70°50.761

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: 1st Sample washed

DESCRIPTION OF BOTTOM: Sand
Sponges shell debris scallop
razor clam shells skate casing

STILL PHOTOS: Roll No. ____ Film Type ____ ISO 290

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°27.435	70°50.781	
2				↓ 437	↓ 786	
3				↓ 441	↓ 793	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO 2H2 DVD Disk 2H3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
2H11						

Depth, m	Depth, m	Depth, m
8.3		

VIDEO LOCATION:
Start Lat. N 41° 27.626 Long. W 70°51° 69 169
End Lat. N 41° 27. 631 Long. W 70° 51. 145

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: 4 No Sample?

DESCRIPTION OF BOTTOM: Sand, seaweed, kelp, gravel, cobbles, moon snail casting, lobster traps, lobster claw

STILL PHOTOS: Roll No. ____ Film Type ____ START 290

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27. 627	70° 51. 165	
2				41° 27. 628	70° 51. 163	
3				41° 27. 630	70° 51. 160	
4				41° 27. 632	70° 51. 156	
5				41° 27. 633	70° 51. 154	
6				41° 27. 634	70° 51. 153	
7				41° 27. 633	70° 51. 149	
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVDQH3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH9						

Depth, m	Depth, m	Depth, m
16.5		

VIDEO LOCATION:
Start Lat. N 41°27.547 Long. W 70°51.581
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 27 .546 Long. W 70° 51.579

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: Unknown shells, mud

DESCRIPTION OF BOTTOM: Burrows, mud, undulating bottom, tracks, patchy shells

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27.547	70° 51.581	
2				41° 27.546	70° 51.580	
3				41° 27.546	70° 51.579	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/ DVD QH3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH6						

Depth, m	Depth, m	Depth, m
15.9		

VIDEO LOCATION:
Start Lat. N 41° 27. 605 Long. W 070° 52. 491
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 27. 603 Long. W 070° 52. 497

SAMPLES TAKEN:
Texture: √ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Mud

DESCRIPTION OF BOTTOM: Mud, burrows, sea urchins, tracks burrowing sea anemone

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27. 606	070° 52. 492	
2				41° 27. 606	070° 52. 493	
3				41° 27. 606	070° 52. 494	
4				41° 27. 604	070° 52. 495	
5				41° 27. 605	070° 52. 496	
6				41° 27. 604	070° 52. 497	
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH7						40:09

Depth, m	Depth, m	Depth, m
16.6		

VIDEO LOCATION:
Start Lat. N 41° 27.737 Long. W 70° 52.265
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 27.731 Long. W 70° 52.264

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Coarse sand mixed w/mud. 2 samples taken – top 2 cm, bottom of grab

DESCRIPTION OF BOTTOM: Mud, burrows, tracks, undulating bottom

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27.737	70° 52.265	
2				41° 27.732	70° 52.264	
3				41° 27.732	70° 52.264	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH3 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH8						

Depth, m	Depth, m	Depth, m
9.6		

51

VIDEO LOCATION:
Start Lat. N 41° 27. 840 Long. W 70° 82. 812
End Lat. N 41° 27. 841 Long. W 70° 82. 804

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Rocks, boulders, abundant seaweeds, patches of sand btwn boulders

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°27. 840	70° 51 82. 811	
2				41°27. 840	70° 51 82. 810	
3				41° 27. 841	70° 51 82. 809	
4				41°27. 841	70° 51 82. 807	
5				41°27. 841	70° 51 82. 806	
6				41°27. 841	70° 51 82. 805	
7					51	
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/DVD QH 4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH 10						45:04

Depth, m	Depth, m	Depth, m
20.7		

VIDEO LOCATION:
Start Lat. N 41° 28.071 Long. W 70° 51.476
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 28. 076 Long. W 70° 51. 468

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Burrows, muddy flat undulating bottom gracilaria seaweeds?; tracks, fish

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 28. 071	70° 51. 475	
2				41° 28. 074	70° 51. 473	
3				41° 28. 075	70° 51. 472	
4				41° 28.075	70° 51. 471	
5					End 270	
6						
7						
8						

STATION LOG Start date June 2005 (JD = 164)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH61						47:41

Depth, m	Depth, m	Depth, m
17.9		

VIDEO LOCATION:
Start Lat. N 41°27.890 Long. W 70°51.343
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 27.889 Long. W 70°51.332

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: Mud, shells

DESCRIPTION OF BOTTOM: Shells, mud, ~~gravel~~ seaweed
Wake mid-video

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27.889	70° 51.343	
2				41° 27.889	70° 51.341	
3				41° 27.889	70° 51.337	
4				41° 27.889	70° 51.334	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH13						52:21

Depth, m	Depth, m	Depth, m
40.2		

Labeled QH61

VIDEO LOCATION:
Start Lat. N 41°27.814 Long. W 70°50.857
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°27.833 Long. W 70° 50.846

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Coarse sand, shells, shell fragments, ahermetypic coral

DESCRIPTION OF BOTTOM: Sand, shell fragments, line, skates, sea urchins, razor clam shells, moon snail casing, some gravel

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27. 815	70° 50. 857	
2				41° 27. 817	70° 50. 857	
3				41° 27. 818	70° 50. 856	
4				41° 27. 820	70° 50. 855	
5				41° 27. 823	70° 50. 851	
6				41° 27. 831	70° 50. 846	
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH14						

Depth, m	Depth, m	Depth, m
31.5		

VIDEO LOCATION:
Start Lat. N 41°28.053 Long. W 70°50.717
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 28.078 Long. W 70° 50.727

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Sand, razorclam shells, gravel, skate casings, quahog shells, skates (abundant)

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 28.056	70° 50.718	
2				41° 28.059	70° 50.719	
3				41° 28.062	70° 50.721	
4				41° 28.065	70° 50.723	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/DVDQH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH15						59:17

Depth, m	Depth, m	Depth, m
23.6		

VIDEO LOCATION:
Start Lat. N 41° 28.256 Long. W 70° 50.564
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 28.275 Long. W 70° 50.567

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Sand, razor clam shells, quahogs, shell debris, skate, ~~egg~~ skate cases,

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 28.258	70° 50.564	
2				41° 28.260	70° 50.565	
3				41° 28.266	70° 50.566	
4				41°28.271	70° 50.567	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH16						

Depth, m	Depth, m	Depth, m
18.2		

VIDEO LOCATION:
Start Lat. N 41° 28.538 Long. W 70° 50.381
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 28.555 / 41° 28.561 Long. W 70° 50.383 → did not trip / 70° 50.384

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Sand, shells, ahermetypic coral

DESCRIPTION OF BOTTOM: Sand, shells/shell debris, scattered seaweed

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 28.542	70° 50.382	
2				41° 28.547	70° 50.382	
3				41° 28.551	70° 50.383	
4					End 250	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH21						

Depth, m	Depth, m	Depth, m
16.7		

41.474467 -70.929477

VIDEO LOCATION:
Start Lat. N 41° 28. 468 Long. W 70° 49. 766
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 28. 472 Long. W 70° 49. 769

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Mud, some organics

DESCRIPTION OF BOTTOM: Sand, burrows, flat/undulating
Some shells, seaweed. Big skate

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 28. 468	70° 49. 766	
2				41° 28. 469	70° 49. 767	
3				41° 28. 471	70° 49. 769	
4						
5						
6						
7						
8						

STATION LOG Start date June 16 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. Q42 / DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH20						

Depth, m	Depth, m	Depth, m
15.1		

VIDEO LOCATION:
Start Lat. N 41° 28. 370 Long. W 70° 49. 431
End Lat. N 389 Long. W 423

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No sample taken

DESCRIPTION OF BOTTOM: Sand/mud, shells, burrows, red & green seaweeds on sm. rocks. (Shells, kelp, scattered rocks
* Sand btwn widely spaced boulders

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 28. 370	70° 49. 432	
2				41° 28. 380	70° 49. 432	
3				41° 28. 382	70° 49. 431	
4				387	425	
5						
6						
7						
8						

STATION LOG Start date June 16 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH ~~17~~ 26						1:12.16

Depth, m	Depth, m	Depth, m
19.7		

VIDEO LOCATION:
Start Lat. N 41° 27.840 Long. W 70° 49.809
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 27.833 Long. W 70° 49.800

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Mud

DESCRIPTION OF BOTTOM: Mud; burrows; trace of seaweed; tracks

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27. 838	70° 49. 807	
2				41° 27. ~~838~~ 836	70° 49. 804	
3				41° 27. 834	70° 49. 801	
4						
5						
6						
7						
8						

STATION LOG Start date June 16 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. (8 mm ____ Hi-8 mm QH2 / DVD QH4) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH17						1:15.14

Depth, m	Depth, m	Depth, m
17.1		

VIDEO LOCATION:
Start Lat. N ~~41° 26.~~ 41° 27.813 (41.46355) Long. W 70° 50.191 (-70.836517)
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 27.816 Long. W 70° 50.177 (-70 836283)

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Muddy Sand, burrows. Undulating bottom
Trace shells, seaweed. Faint ripples. Ulva. Hermit crab.

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° ~~26.~~ 27. 814	70° 50. 188	?
2				41° ~~26.~~ 27. 815	70° 50. 184	
3				41° ~~26.~~ 27. 815	70° 50. 181	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH 18						1:18:47

Depth, m	Depth, m	Depth, m

VIDEO LOCATION:
Start Lat. N 41° 27. 550 Long. W 70° 50. 023
End Lat. N 41° 27. 544 Long. W 70° 50 014

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No Sample

DESCRIPTION OF BOTTOM: Rocks Boulders overgrown w/ seaweed seaweed, patches of sand & gravel between boulders

START 240

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27. 550	70° 50. 023	
2				41° 27. 548	70° 50. 022	
3				41° 27 546	70° 50. 020	
4				41° 27 544	70° 50 015	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVDQH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH19						1:20:01

Depth, m	Depth, m	Depth, m
10.4		

VIDEO LOCATION:
Start Lat. N 41° 27. 486 Long. W 70° 49.564
End Lat. N 41° 27 485 Long. W 70 49 575 video turned off

SAMPLE LOCATION:
Lat. N 41 27 485 Long. W 70°49 580

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Muddy Sand
Burrows Tracks from shell fragments
dog marks, [illegible]

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27. 486	70° 49. 566	
2				41° 27. 485	70° 49. 569	
3				41° 27. 486	70° 49. 570	
4				41°27 485	70°49 576	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. 8H2 / DVD 8N4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
8H22						1:21:10

Depth, m	Depth, m	Depth, m
17.7		

VIDEO LOCATION:
Start Lat. N 41 28.888 Long. W 70°50 88
End Lat. N ____ Long. W ____ video off for most of sample station

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: 41°28.893 70°50.785 used for sample Loc

DESCRIPTION OF BOTTOM: Mud sandy abundant shells seaweed sponge, coral

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°28 889	70°50.806	
2				.891	.799	
3				.893	.791	
4				.893	.785	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. (8 mm ____ Hi-8 mm 2H2 / DVD QN4 ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH23	167					1:24:04

Depth, m	Depth, m	Depth, m
17.9		

VIDEO LOCATION:
Start Lat. N 41°28 819 Long. W 70°51 439
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: 41°28 823 70°51 415

DESCRIPTION OF BOTTOM: ~~41°28~~ Sandy Mud ~~70°51~~.
abundant burrows scattered seaweed

START 231

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°28.820	70°51.435	
2				41°28.822	70°51.430	
3				41°28.823	70°51.421	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH4 STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

(8 mm ____ Hi-8 mm ____) PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH25						

Depth, m	Depth, m	Depth, m
14.5		

VIDEO LOCATION:
Start Lat. N 41°28.976' Long. W 70°51.226'
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture: ___ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Boulders sand between boulders gravel fish seaweed shell fragments Kelp starfish burrows

STILL PHOTOS: Roll No. ____ Film Type end 226

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°28.976'	70°51.216'	
2				41 28.975'	70°51.210'	
3				41 28.973'	70°51.202'	
4				41 28.973	70°51.196'	
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD =)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH24						1-29-28

Depth, m	Depth, m	Depth, m
18.1		

VIDEO LOCATION:
Start Lat. N 41°29.134' Long. W 70°51.049'
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41°29.129' Long. W 70°51.024'

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Muddy Sand
Burrows seaweed flat undulating bottom
scattered shells, pipes (?)

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41°29.133	70°51.043	
2				132	058	
3				130	033	
4				129	026	
5						
6						
7						
8						

STATION LOG

Start date June 2005 (JD = 167)

CRUISE: RAFL 05007

SHIP: RAFAEL

VIDEO TAPE NO. QH2 / DVD QH4
(8 mm ____ Hi-8 mm ____)

STUDY AREA: Quick's Hole, Cuttyhunk Township
Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH4						

Depth, m	Depth, m	Depth, m
15.5		

VIDEO LOCATION:
Start Lat. N 41° 27.139 Long. W 70° 52.197
End Lat. N 27.167 Long. W .227

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: No sample taken

DESCRIPTION OF BOTTOM: Outside trench: mud, sand, burrows, anemones
Edge of trench: some seaweed, larger burrows, shell fragments
Bottom of trench: seaweed, shell fragments, mud/sand, some burrows

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27.	70° 52.	
2				41° 27.	70° 52.	
3				41° 27.	70° 52.	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH3/DVD QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH5						

Depth, m	Depth, m	Depth, m
15.6		

VIDEO LOCATION:
Start Lat. N 41° 27. 187 Long. W 70° 52.084
End Lat. N 41° 27 .232 Long. W 70° 52.159

SAMPLE LOCATION:
Lat. N ____ Long. W ____

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: ____

DESCRIPTION OF BOTTOM: Outside: mud, burrows, tracks, anemones
Transition: Mud, larger burrows, occasional seaweed
Trench: Shells, mud, sand, seaweed, shells

END 220

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 27 .187	70° 52 .072	
2				41° 27 .186	70° 52 .083	
3				41° 27 .196	70° 52 .115	
4				41° 27 .201	70° 52 .120	
5				41° 27 .227	70° 52 .152	
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH55						1:43:56

Depth, m	Depth, m	Depth, m
14.3		

VIDEO LOCATION:
Start Lat. N 41° 24.694 Long. W 70° 50.381
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 24.698 Long. W 70° 50.366

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Coarse sand

DESCRIPTION OF BOTTOM: Sand, current ripples, fine shell hash

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 24.694	70° 50.379	
2				41° 24.696	70° 50.374	
3				41° 24.697	70° 50.370	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2/QH4 (8 mm ____ Hi-8 mm ____) STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH56						

Depth, m	Depth, m	Depth, m
24.9		

VIDEO LOCATION:
Start Lat. N 42° 24.942 Long. W 70° 49.723
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 42° 24.951 Long. W 70° 49.704

SAMPLES TAKEN:
Texture: ✓ Geochemistry: ___ Organics (LOI): ___ Biology: ___

SAMPLING COMMENTS: Coarse brown sand ; amphipods

DESCRIPTION OF BOTTOM: Sand, shell ~~tooth~~ debris, sand waves
Skate

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				42° 24.945	70° 49.~~715~~ 717	
2				42° 24.947	70° 49.712	
3				42° 24.949	70° 49.708	
4						
5						
6						
7						
8						

STATION LOG Start date June 2005 (JD = 167)

CRUISE: RAFL 05007 SHIP: RAFAEL

VIDEO TAPE NO. QH2 / STUDY AREA: Quick's Hole, Cuttyhunk Township Elizabeth Islands, Buzzards Bay, MA
(8 mm ____ Hi-8 mm ____)

PROJECT: ____

DGPS NAV FIX UPDATE INTERVAL: ____

STA. NO.	JD	TIME (UTC)			TAPE COUNTER	
		Video on bottom	Sample taken	Video off bottom	Start	Stop
QH57						

Depth, m	Depth, m	Depth, m
24.0		

VIDEO LOCATION:
Start Lat. N 41° 24.905 Long. W 70° 49.351
End Lat. N ____ Long. W ____

SAMPLE LOCATION:
Lat. N 41° 24.945 / 41° 24.948 Long. W 70° 49.307 → did not take / 70°49.303

SAMPLES TAKEN:
Texture:___ Geochemistry:___ Organics (LOI):___ Biology:___

SAMPLING COMMENTS: Sand.

DESCRIPTION OF BOTTOM: Sand, shell debris, current ripples on sand waves. Moon snail casings. Scallops.

STILL PHOTOS: Roll No. ____ Film Type ____

	Photo No.	Time (UTC)	LED/Neg No.	Location (nearest 10-sec fix) Lat. N	Long. W	Depth (m)
1				41° 24.907	70° 49.349	
2				41° 24.912	70° 49.343	
3				41° 24.939	70° 49.313	
4						
5						
6						
7						
8						