



**PROJECT** FEMA-1492-DR-MD High Water Mark Survey Project  
**COMM. NO.** 240064  
**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L- 1  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_13 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** Chesapeake Bay **Quality of Mark:** Fair  
**Flood Elevation:** **9.4 FT** **Location:** Debris line front yard  
**Flooding Type:** Wave runoff  
**Mark Address:** Route 1, Box 120, Tippet Road  
**Description of Mark:** debris line

**Type of Line:** Debris line  
**Description of Physical Structure:** N/A  
**Closest City:** Lexington Park **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry  
**Flagging Date:** 9/26/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhome & O'Mara, Inc.  
**Survey Date:** 10/13/2003 **Survey Type:** N/A  
**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83  
**Latitude:** 38.2224 **Easting:** 1,490,461  
**Longitude:** -76.3875 **Northing:** 202,122

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A  
**Approx. Distance to Shoreline:** 90 FT

**Comments:**



DCP\_3399.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



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**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-2  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_14 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** St. Jerome Creek/Chesapeake **Quality of Mark:** Fair  
**Flood Elevation:** **4.8 FT** **Location:** Ground/tree  
**Flooding Type:** Surge  
**Mark Address:** End of Airedele Road (in 2nd to last house yard)  
**Description of Mark:** flagged tree and ground with paint with nail and ribbon

**Type of Line:** Debris line

**Description of Physical Structure:** N/A

**Closest City:** Ridge **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry

**Flagging Date:** 9/26/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhome & O'Mara, Inc.

**Survey Date:** 10/31/2003 **Survey Type:** N/A

**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

**Latitude:** 38.1183 **Easting:** 1,502,243

**Longitude:** -76.3462 **Northing:** 162,144

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 120 FT

**Comments:**

Debris line may have been affected by weather or cleanup action, resulting in lower than average elevation.



DCP\_3404.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



**PROJECT** FEMA-1492-DR-MD High Water Mark Survey Project

**COMM. NO.** 240064

**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-3

**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_15 **Mark Type:** Coastal

**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003

**Flooding Source:** Chesapeake Bay **Quality of Mark:** Fair

**Flood Elevation:** **3 FT** **Location:** Outside wall (building)

**Flooding Type:** Surge

**Mark Address:** 14685 Bay Front Drive

**Description of Mark:** front right corner below window on corner

**Type of Line:** Mud line

**Description of Physical Structure:** wood house

**Closest City:** Point Look Out **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry

**Flagging Date:** 9/26/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhome & O'Mara, Inc.

**Survey Date:** 10/13/2003 **Survey Type:** N/A

**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

**Latitude:** 38.0697 **Easting:** 1,508,133

**Longitude:** -76.3297 **Northing:** 143,978

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 260 FT

**Comments:**

Mud line may have been affected by weather or cleanup action, resulting in lower than average elevation.



DCP\_3415.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



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**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-4  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_16 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** St. Mary's River **Quality of Mark:** Fair  
**Flood Elevation:** **4.8 FT** **Location:** Bridge/pole  
**Flooding Type:** Surge  
**Mark Address:** 16956 Look Out Road  
**Description of Mark:** a bridge next to public safety office

**Type of Line:** Debris line/eye witness

**Description of Physical Structure:** N/A

**Closest City:** St. Mary's **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry

**Flagging Date:** 9/26/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhome & O'Mara, Inc.

**Survey Date:** 10/31/2003 **Survey Type:** N/A

**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

**Latitude:** 38.1895 **Easting:** 1,476,187

**Longitude:** -76.4317 **Northing:** 187,462

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 150 FT

**Comments:**

Debris line may have been affected by weather or cleanup action, resulting in lower than average elevation.



DCP\_3422.jpg

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**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-5  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_17 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** Potomac River **Quality of Mark:** Fair  
**Flood Elevation:** **6.5 FT** **Location:** Back of breaker wall  
**Flooding Type:** Surge  
**Mark Address:** 16608 Piney Point Road  
**Description of Mark:** debris line on back of breaker wall, across street from 16608

**Type of Line:** Debris line

**Description of Physical Structure:** N/A

**Closest City:** St. Georges Island **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry

**Flagging Date:** 9/27/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhome & O'Mara, Inc.

**Survey Date:** 10/13/2003 **Survey Type:** N/A

**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

**Latitude:** 38.1236 **Easting:** 1,461,939

**Longitude:** -76.4879 **Northing:** 165,526

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 120 FT

**Comments:**



DCP\_3457.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



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**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-6  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_18 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** Breton Bay **Quality of Mark:** Fair  
**Flood Elevation:** **7.6 FT** **Location:** Ground/tree  
**Flooding Type:** Surge  
**Mark Address:** Public Park, at end of Camp Calvert Road at Boat Launch  
**Description of Mark:** debris line, with nail in tree for visual

**Type of Line:** Debris line  
**Description of Physical Structure:** N/A

**Closest City:** **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry  
**Flagging Date:** 9/27/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhome & O'Mara, Inc.  
**Survey Date:** 10/13/2003 **Survey Type:** N/A

**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83  
**Latitude:** 38.2842 **Easting:** 1,421,418  
**Longitude:** -76.6295 **Northing:** 223,595

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 140 FT

**Comments:**



DCP\_3460.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



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**COMM. NO.** 240064  
**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-7  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_19 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** Potomac River **Quality of Mark:** Fair  
**Flood Elevation:** **7.3 FT** **Location:** Fence  
**Flooding Type:** Surge  
**Mark Address:** 38352 Point Breeze Road  
**Description of Mark:** fence in front of home

**Type of Line:** Debris line  
**Description of Physical Structure:** metal fence post  
**Closest City:** Cottons Point **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry  
**Flagging Date:** 9/27/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhome & O'Mara, Inc.  
**Survey Date:** 10/13/2003 **Survey Type:** N/A  
**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83  
**Latitude:** 38.2242 **Easting:** 1,384,159  
**Longitude:** -76.7512 **Northing:** 201,616

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 80 FT

**Comments:**



DCP\_3464.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



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**COMM. NO.** 240064  
**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-8  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_20 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** Potomac River **Quality of Mark:** Fair/Good  
**Flood Elevation:** **5.8 FT** **Location:** Outside building wall  
**Flooding Type:** Surge  
**Mark Address:** 40540 Old Breton Beach Road  
**Description of Mark:** front of building near air conditioning unit and electric meter

**Type of Line:** Mud line  
**Description of Physical Structure:** wood house  
**Closest City:** Breton Beach **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry  
**Flagging Date:** 9/27/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhorne & O'Mara, Inc.  
**Survey Date:** 10/31/2003 **Survey Type:** N/A  
**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83  
**Latitude:** 38.2348 **Easting:** 1,407,131  
**Longitude:** -76.6743 **Northing:** 205,331

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 170 FT

**Comments:**



DCP\_3436.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



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**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-9  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT7\_21 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** Potomac River **Quality of Mark:** Excellent  
**Flood Elevation:** **5.9 FT** **Location:** Inside wall/transfer  
**Flooding Type:** Surge  
**Mark Address:** 40461 Old Breton Beach Road  
**Description of Mark:** left side of home, front window, green tape

**Type of Line:** Mud line

**Description of Physical Structure:** stucco house

**Closest City:** Breton Beach **County:** St. Mary's **State:** Maryland

**Flaggers:** Schelling **Company/Agency:** Dewberry

**Flagging Date:** 9/27/2003

**Surveyors:** Cumberledge, Booth **Company/Agency:** Greenhome & O'Mara, Inc.

**Survey Date:** 10/31/2003 **Survey Type:** N/A

**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

**Latitude:** 38.2346 **Easting:** 1,407,131

**Longitude:** -76.6782 **Northing:** 205,331

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 180 FT

**Comments:**



DCP\_3451.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



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**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-10  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT9\_6 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** Patuxent River **Quality of Mark:** Good  
**Flood Elevation:** **5 FT** **Location:** inside wall transferred out  
**Flooding Type:** Surge  
**Mark Address:** 27130 South Sandgates Rd (Seabreeze Restaurant)  
**Description of Mark:** 35" from top of concrete slab

**Type of Line:** Mud line

**Description of Physical Structure:** wood shed

**Closest City:** Sandgates **County:** St. Mary's **State:** Maryland

**Flaggers:** Ryan Carroll **Company/Agency:** Dewberry

**Flagging Date:** 10/6/2003

**Surveyors:** Weaver, Payabyab **Company/Agency:** Greenhome & O'Mara, Inc.

**Survey Date:** 10/31/2003 **Survey Type:** N/A

**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

**Latitude:** 38.4131 **Easting:** 1,426,952

**Longitude:** -76.6077 **Northing:** 270,963

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 110 FT

**Comments:**

HWM is on left side of wooden door frame. Transferred from interior mud line. Mud line may have been affected by weather or cleanup action, resulting in lower than average elevation.



DSCN0078.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*



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**TYPE** High Water Mark Survey **PREL.** 10/05/2003 **FINAL** 11/20/2003 **SHEET** L-11  
**CONTENTS** Individual Historical High Water Mark Survey Report

**Historical Mark:** UNIT9\_7 **Mark Type:** Coastal  
**Flood Event:** Hurricane Isabel **Date of Flood:** 09/19/2003  
**Flooding Source:** Patuxent River **Quality of Mark:** Poor  
**Flood Elevation:** **11.2 FT** **Location:** ground  
**Flooding Type:** Wave height  
**Mark Address:** 24239 N. Patuxent Beach Rd  
**Description of Mark:** did not determine

**Type of Line:** Debris line  
**Description of Physical Structure:** N/A

**Closest City:** Town Creek **County:** St. Mary's **State:** Maryland

**Flaggers:** Ryan Carroll **Company/Agency:** Dewberry  
**Flagging Date:** 10/6/2003

**Surveyors:** Weaver, Payabyab **Company/Agency:** Greenhome & O'Mara, Inc.  
**Survey Date:** 10/31/2003 **Survey Type:** N/A

**Projection:** Maryland **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD 83

**Latitude:** 38.3186 **Easting:** 1,464,414

**Longitude:** -76.4767 **Northing:** 234,735

**Approx. First Floor Elevation (Based on Measurement from Mark):** N/A

**Approx. Distance to Shoreline:** 10 FT

**Comments:**

Homeowner described the debris line as being even with the 2nd handrail post from top of staircase, visible in background of photo 0084. This was verified with a photo taken the day after the storm. Staircase is on neighbor's property. Bulkheads along this reach of shoreline did not perform well; this particular property sustained major shoreline erosion/scour behind an old wooden bulkhead that completely failed. SURVEYOR: proceed with caution as HWM is adjacent to eroded shoreline.



DSCN0084.jpg

*Survey Certification: Coastal High Water Mark location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*