NOAA FORM 76-35
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey ........................................ Shoreline
Job No. ........................................ PH-7012
Map No. ........................................ TP-00328
Classification No. Final ...................................
Edition No. ........................................ 1

LOCALITY
State ........................................ Virginia - Maryland
General Locality ...................................... Aquia Creek
Locality ........................................ Seegars Point to Aquia Creek

DATE ........................................ 1971 TO 1972

REGISTRY IN ARCHIVES

* U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

12 285 (101) A D.K. 9-77
12 288 (554) Part Applied RH 8/78
DESCRIPTIVE REPORT - DATA RECORD

PHOTOGRAMMETRIC OFFICE

Rockville, Maryland

OFFICER-IN-CHARGE

Jack E. Guth/J. Collins, Cdr.

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation Instructions
Upper Potomac River - Shoreline Mapping
Job PH-7012, Dec. 6, 1971
Photogrammetric 2/29/72 (compilation)
(Review of Instructions 2/24/72 - field instr.)

2. FIELD

Hydro Support & Edit 3/1/72
(instr. missing)

II. DATUMS

1. HORIZONTAL: ☑ 1927 NORTH AMERICAN

2. VERTICAL: ☑ MEAN HIGH-WATER

3. MAP PROJECTION

Mercator

4. GRID(S)

STATE: Virginia
ZONE: North Zone

5. SCALE

1:10,000

III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
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<tr>
<td>1. AEROTRIANGULATION</td>
<td>D. Brandt</td>
<td>2/72</td>
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<td>METHOD: Analytical</td>
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<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>D. Phillips</td>
<td>2/72</td>
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<td>METHOD: Coradi</td>
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<td>CHECKED BY</td>
<td></td>
<td></td>
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<td>3. STEREOSCOPIC INSTRUMENT COMPILATION</td>
<td>P. Dempsey</td>
<td>2/72</td>
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<td>INSTRUMENT: B-8</td>
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<td>CHECKED BY</td>
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<td>4. MANUSCRIPT DELINEATION</td>
<td>P. Dempsey</td>
<td>2/72</td>
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<td>METHOD: Graphic &amp; Instrument inked</td>
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<td>CONTOURS BY</td>
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<td>HYDRO SUPPORT DATA</td>
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<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>J.C. Richter</td>
<td>3/72</td>
</tr>
<tr>
<td>BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>J.C. Richter - J. Taylor</td>
<td>9/72</td>
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<td>Revised &amp;</td>
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<td></td>
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<td>7. COMPILATION SECTION REVIEW</td>
<td>J. Battley, Jr.</td>
<td>7/76</td>
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<td></td>
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<td>8. FINAL REVIEW</td>
<td>J.B. Phillips</td>
<td>9/76</td>
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<tr>
<td>9. DATA forwarded TO PHOTOGRAMMETRIC BRANCH</td>
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<td>BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>R.P. Cathe</td>
<td>3/77</td>
</tr>
<tr>
<td>BY</td>
<td></td>
<td></td>
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</table>
1. **Compilation Photography**

   **Camera(s):**
   - L 6" Focal length

   **Tide Stage Reference**
   - ☑ Predicted Tides
   - ☐ Reference Station Records
   - ☐ Tide Controlled Photography

   **Types of Photography**
   - (C) Color
   - (P) Panchromatic
   - (I) Infrared

   **Time Reference**
   - ☑ Eastern Standard Time
   - ☑ Daylight Time
   - ☐ 60th & 75th Meridian

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tr>
<td>71L9957 thru</td>
<td>10/12/71</td>
<td>12:12</td>
<td>1:20,000</td>
<td>1.1' above MLW</td>
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<td>7960</td>
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<tr>
<td>71L382 thru</td>
<td>10/5/71</td>
<td>10:52</td>
<td>1:40,000</td>
<td>-0.1' below MLW</td>
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<td>384</td>
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   **Remarks**
   - 1:20,000 color enlarged to 1:10,000

2. **Source of Mean High-Water Line:**

   Office interpretation from 1:40,000 scale photography on B-8 stereoplotter.

3. **Source of Mean Low-Water or Mean Lower Low-Water Line:**

4. **Contemporary Hydrographic Surveys**

   (List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
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</table>

5. **Final Junctions**

   | North         | No contemporary survey | East          | TP-00329     | South       | TP-00330         | West         | No contemporary survey |

   **Remarks**
I. **FIELD INSPECTION OPERATION**

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<tr>
<th>OPERATION</th>
<th>NAME</th>
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<tr>
<td>CHIEF OF FIELD PARTY</td>
<td>Richard D. Olson</td>
<td>7/72</td>
</tr>
<tr>
<td>HORIZONTAL CONTROL</td>
<td>James Davis</td>
<td>6/72</td>
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<tr>
<td>VERTICAL CONTROL</td>
<td>N.A.</td>
<td>6/72</td>
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<td>LANDMARKS AND AIDS TO NAVIGATION</td>
<td>N.A.</td>
<td>7/72</td>
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<tr>
<td>PHOTO INSPECTION</td>
<td>Susan Kumer</td>
<td>7/72</td>
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<td>BOUNDARIES AND LIMITS</td>
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II. **SOURCE DATA**

1. HORIZONTAL CONTROL IDENTIFIED

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<th>PHOTO NUMBER</th>
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<td>N.A.</td>
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2. VERTICAL CONTROL IDENTIFIED

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3. PHOTO NUMBERS (Clarification of details)

- 71L9957 thru 9960

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

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<th>PHOTO NUMBER</th>
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5. GEOGRAPHIC NAMES: □ REPORT □ NONE

6. BOUNDARY AND LIMITS: □ REPORT □ NONE

7. SUPPLEMENTAL MAPS AND PLANS

- Plot plan for the Aquia Harbor Development

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodasy Division)

- One envelope (AQUIA HARBOR) for names investigation
## I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>DATA COMPILED</th>
<th>COMPILED DATE</th>
<th>REMARKS</th>
<th>DATE MANUSCRIPT FORWARDED</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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<tr>
<td>Shoreline, offshore detail, inshore for 900 feet</td>
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## II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORT TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

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<th>CHART LETTER NUMBER ASSIGNED</th>
<th>DATE FORWARDED</th>
<th>REMARKS</th>
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2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: [Unreadable]

3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: [Unreadable]

## III. FEDERAL RECORDS CENTER DATA

1. [ ] BRIDGING PHOTOGRAPHS; [ ] DUPLICATE BRIDGING REPORT; [ ] COMPUTER READOUTS.

2. [ ] CONTROL STATION IDENTIFICATION CARDS; [ ] FORM NOS 567 SUBMITTED BY FIELD PARTIES.

3. [ ] SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS.

4. [ ] DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: [Unreadable]

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

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| FOURTH EDITION | SURVEY NUMBER | JOB NUMBER | TYPE OF SURVEY | MAP CLASS |
|               | TP - (4)      |            | Revised |                   |
|               |               |            | Resurvey |                   |
|               |               |            | Final   |                   |
SUMMARY PH-7012 (Southern Part)

Seventeen maps comprise the entire project. This summary covers ten maps that extend along the Potomac River to the south from latitude 38°40'00". The seven maps that extend to the north will be reviewed and summarized in a separate report.

TP-00328 was compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and premarking of horizontal control.

This manuscript was compiled using the Wild B-8 stereoplotter with 1:40,000 scale color photography. Also 1:20,000 scale color photography was ratioed to 1:10,000 scale and common points were dropped along the shoreline as an aid in the location of hydrographic signals.

Field edit was accomplished during June-July 1972.

Final review was accomplished at the Rockville, Maryland, Office in Sept. 1976.

A stable base positive copy of the map and a Descriptive Report will be registered in the NOS Archives.
PHOTOGRAMMETRIC PLOT REPORT
Job PH-7012
Upper Potomac River, Maryland-Virginia (Part 1)
March 1972

21. **Area Covered**

This report covers an area of the Potomac River south from latitude 38 40 00 to Maryland Point (approximate latitude 38 20 00). The job consists of ten (10) 1:10,000 scale sheets (TP-00323 thru TP-00332).

22. **Method**

Severn (?) strips of photographs (strips 1 thru 7) were bridged using analytical aerotriangulation methods. All strips were adjusted to premarked control except that strip 2 was terminated on a position of a common point determined from strip 3. Strip 4 was terminated from positions of common points determined from strip 3 and station MARSH 1928 (field identified sub points). Ties were made to all strips. Sketch 1 shows the location of the strips of photography and the horizontal control stations used in bridging. Common image points were located between the bridging photography and the hydro support photography in order to determine the ratio for the 1:10,000 scale enlargements. Sketch 2 shows the location of the strips of photography for hydro support. Data for the 1:10,000 scale compilation of the ten (10) sheets were plotted by the Coradomat on the Virginia (north zone) coordinate system.

23. **Adequacy of Control**

All horizontal control was premarked except CLYMOUNT LIGHT 1958 (identified direct) and MARSH 1928. Field identification of sub points for MARSH 1928 were determined after the photography was flown. Horizontal control was adequate.

24. **Supplemental Data**

USGS quadrangles were used to provide vertical control for the strip adjustments.
25. **Photography**

The following RC-8 color photography was used in bridging:

1:40,000 scale photography

Strip 1  71-L(C)-0378 thru 0385  
Strip 2  71-L(C)-0303 thru 0309  
Strip 3  71-L(C)-0322 thru 0331  
Strip 5  71-L(C)-0410 thru 0419  
Strip 6  71-L(C)-0397 thru 0407  
Strip 7  71-L(C)-0386 thru 0392

1:20,000 scale photography

Strip 4  71-L(C)-9932 thru 9935

The photography was dark due to poor processing. This caused the definition and quality of the photography to be poor.

Respectfully submitted:

[Signature]

Donald M. Brant  
Cartographer

Approved and forwarded:

[Signature]

Henry P. Eichert, Chief  
Aerotriangulation Section
31. DELINEATION

1:40,000 scale color bridging photography was set on the B-8 stereoplotter for delineation of the shoreline, foreshore, and offshore features.

1:20,000 scale color photography was ratioed to 1:10,000 scale, and common points were dropped along the shoreline for hydro support.

32. CONTROL

Horizontal control was adequate for density and placement.

Vertical control from USGS Quads and water level.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline was delineated by office interpretation from color photographs dated November 1971.

No low water lines or shoal areas were delineated.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.
39. JUNCTIONS

To the east with TP-00329.
To the south with TP-00330.
No contemporary survey to the west.
No contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

See Photogrammetric Plot Report.

41. Inapplicable.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USGS Quadrangle Widewater, Virginia-Maryland, Scale 1:24,000, edition 1966.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with nautical chart No. 559, scale 1:40,000, 9th edition, February 27, 1971.

Items to be applied to nautical charts immediately. None.
Items to be carried forward. None.

Submitted by:

Patrick J. Dempsey

Approved and Forwarded:

K.N. Maki
Chief, Compilation Section
FIELD EDIT REPORT
TP 00328
Potomac River
PH '7012

51. METHODS

All field edit work was done in accordance with project instructions to Chief of Hydrographic Field Party 742 titled OPR-409-HFP-742-72, Potomac River, Maryland dated March 1, 1972.

An inspection was made of all mean high water line and shoreline features and all additions, deletions, and corrections are shown on the field edit ozalid and photos 71L9958, 9958, 9959, and 9960. This ozalid is a complete index of all notes pertaining to this sheet.

Numerous areas, incorrectly compiled as shoals, are grass in water and have been correctly delineated on the above-mentioned photographs. In areas where tree overhang prevented accurate compilation of the mean high water line, sextant fixes and distances to identifiable points on shore were taken. The positions of all signals used in sextant fixes are listed on the T-sheet.

All notes on this sheet by the field editor are in violet to indicate additions or changes, and in green to indicate deletions.

52. ADEQUACY OF COMPILATION

The compilation was adequate considering there had not been any field inspection.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

No discrepancies in geographic names were found while field editing this sheet.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

No landmarks are recommended for compilation. There are no aids to navigation on this sheet.
8. MISCELLANEOUS.

All times mentioned on the field edit ozalid refer to Greenwich Mean Time.

Respectfully submitted,

Richard D. Olson
Lt. NOAA
Chief, Photo Party 61
Notes on Application of Field Edit:

Field edit for this manuscript was thorough but somewhat unorthodox. Although data for field edit and photo-hydro support were prepared by the compilation office in the usual format, i.e., ratio color prints with shoreline points, cronaflex copies and ozalids, the use of the photographs was moderate and extensive use of sextant cuts were substituted. This was partly due to tree overhang of the shoreline, but a stereoscopic examination of the photography could have prevented considerable field work. The plethora of sextant fixes and measurements, for the most part, verified the compiled MHWL. All the sextant fixes were to numbered signal points that were neither photoidentified or described. The positions of these signal points were listed on the field edit ozalid but could not be verified. Their method of location can only be assumed as no field records were available and it is evident that they were not "cut in" by photogrammetric methods.

Five "lettered" points were located on a field photograph to position a few rocks and a wreck near Aquia Harbor.

The small-craft facilities indicated on the ozalid had been applied to chart 101-SC prior to the application of field edit and was not duplicated.

The manuscript is now a Class I subject to final review.

Jeter P. Battley, Jr.
Chief, Coastal Mapping Section
61. General Statement

The compilation office determined that some of the information shown on offshore rocks, piles, etc. was incorrect or incomplete as shown on the Class I manuscript that had been sent to the AMC. After final review, a copy of each manuscript where changes occurred will be sent to the AMC for comparison.

62. Comparison with Registered Topographic Surveys

PH-6104 covers this area of the Potomac River. The job was started in 1961 but was canceled before all the sheets were compiled. This manuscript supersedes the earlier project.

63. Comparison with Maps of Other Agencies

U.S. Geological Survey Quad: Widewater, Va.-Md. 1:24,000 1966

64. Comparison with Contemporary Hydrographic Surveys

The hydrographic survey boat sheets are in the AMC. Class I manuscript copies were recently forwarded for use in smooth sheet processing. Refer to item 61 of this report.

65. Comparison with Nautical Charts

Chart 12288 (559) 1:40,000 scale 1975

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:

J. B. Phillips

Approved and Forwarded:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
November 8, 1976

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-7012 (Potomac River)
TP-00328

Aquia Creek
Aquia Harbor
Boars Creek
Coal Landing
Government Island
RF&P (RR)
Seegars Point
Willow Landing

Approved by: Chas. E. Harrington
Staff Geographer-C51x2
Chas. E. Harrington
**INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tr>
<td>122-85</td>
<td>9-16-77</td>
<td>Dick Killen</td>
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<tr>
<td>122-88</td>
<td>8-28-78</td>
<td>Richard Hogan</td>
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<td>122-88</td>
<td>6-2-79</td>
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