

TP- 00328

TP-00328

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. <i>Final</i>	<i>Field edited map</i>	Edition No.	<i>1</i>
LOCALITY			
State	Virginia - Maryland.....		
General Locality	Aquia Creek.....		
Locality	Seegars Point to..... Aquia Creek.....		
<hr/> 1971 TO 1972 <hr/>			
REGISTRY IN ARCHIVES			
DATE			

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

12285 (101) A D.K. 4-77

12288 (559) Part Applied RH 8/78

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

SURVEY TP- 00328

 ORIGINAL

MAP EDITION NO. ()

 RESURVEY

MAP CLASS FINAL

 REVISEDFIELD EDITED
JOB PH- 7012

PHOTOGRAMMETRIC OFFICE

Rockville, Maryland

OFFICER-IN-CHARGE

Jack E. Guth/J. Collins, Cdr.

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH- _____

 ORIGINAL

MAP CLASS _____

 RESURVEY

SURVEY DATES: _____

 REVISED

19 _____ TO 19 _____

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

OTHER (Specify)

2. VERTICAL:

 MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Mercator

4. GRID(S)

STATE Virginia

ZONE

North Zone

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS	NAME	DATE
1. AEROTRIANGULATION METHOD: Analytical	D. Brandt	2/72
LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS METHOD: Coradi	D. Phillips	2/72
PLOTTED BY CHECKED BY		
3. STEREOSCOPIC INSTRUMENT COMPILATION	P. Dempsey	2/72
INSTRUMENT: B-8		
SCALE: 1:10,000		
PL ANIMETRY BY CHECKED BY		
4. MANUSCRIPT DELINEATION	P. Dempsey	2/72
PL ANIMETRY BY CHECKED BY	J. Battley, Jr.	2/72
CONTOURS BY CHECKED BY	N.A.	
METHOD: Graphic & Instrument inked	P. Dempsey	2/72
SCALE: 1:10,000	J.C. Richter	3/72
HYDRO SUPPORT DATA BY CHECKED BY	J. Battley, Jr.	3/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	J.C. Richter - J. Taylor	9/72
Revised & BY CHECKED BY	J. Battley, Jr.	7/76
6. APPLICATION OF FIELD EDIT DATA	J. Battley, Jr.	8/76
BY	J. B. Phillips	9/76
7. COMPILATION SECTION REVIEW		
8. FINAL REVIEW		
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		
11. MAP REGISTERED - COASTAL SURVEY SECTION	R.T. CATBX	3/77

TP-00328
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S)	TIDE STAGE REFERENCE	TYPES OF PHOTOGRAPHY LEGEND	TIME REFERENCE	
			ZONE	STANDARD
L 6" Focal length	<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY	<input checked="" type="checkbox"/> (C) COLOR <input type="checkbox"/> (P) PANCHROMATIC <input type="checkbox"/> (I) INFRARED	Eastern	<input checked="" type="checkbox"/> STANDARD
			MERIDIAN 60th & 75th	<input checked="" type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
71L9957 thru 9960	10/12/71	12:12	1:20,000	1.1' above MLW
71L382 thru 384	10/5/71	10:52	1:40,000	-0.1' below MLW

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.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	No contemporaneous survey	EAST	TP-00329	SOUTH	TP-00330	WEST	No contemporaneous survey

REMARKS

HISTORY OF FIELD OPERATIONS TP-00328

J. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Richard D. Olson	7/72
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None James Davis N.A.
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N.A. N.A. N.A.
LANDMARKS AND	RECOVERED (Triangulation Stations) BY	N.A.

TP-00328
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILED STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline, offshore detail, inshore for 800 feet	2/72	Class III Manuscript	May 1972	
Field edit applied	9/72	Class I Manuscript		Aug. 1976 AMC
Additions and changes to some offshore rock data	9/76	Class I Manuscript		
Final review prior to registration	10/76	No changes		

II. LANDMARKS AND AIDS TO NAVIGATION

T. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED:
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:

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:

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

SECOND EDITION	SURVEY NUMBER TP - <u> </u> (2)	JOB NUMBER PH - <u> </u>	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - <u> </u> (3)	JOB NUMBER PH - <u> </u>	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - <u> </u> (4)	JOB NUMBER PH - <u> </u>	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING

SCALE 1:10,000

38°51'00"

38°52'00"

TP-00217

38°56'30"

38°51'30"

WASHINGTON

38°55'00"

TP-00333

EXCELSIOR

38°50'00"

TP-00319

76°59'30"

38°45'00"

77°16'30"
77°15'00"

77°20'00"

TP-00323

TP-00324

TP-00325

38°35'00"

TP-00326

TP-00327

TP-00328

38°30'00"

77°25'00"

TP-00329

TP-00330

TP-00331

38°25'00"

77°10'00"

TP-00332

38°20'00"

77°08'30"

TP-00333

38°20'00"

77°08'00"

TP-00334

38°20'00"

77°08'30"

TP-00335

38°20'00"

Sheet No.	Sq. Miles
TP-00217	4
TP-00318	12
TP-00319	12
TP-00320	2
TP-00321	12
TP-00322	12
TP-00323	3
TP-00324	10
TP-00325	10
TP-00326	10
TP-00327	12
TP-00328	5
TP-00329	10
TP-00330	3
TP-00331	12
TP-00332	8
TP-00333	8
<hr/>	
Total 145	

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 $38^{\circ}40'00''$. 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 (7) 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.

2

25. Photography

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

1:40,000 scale photography

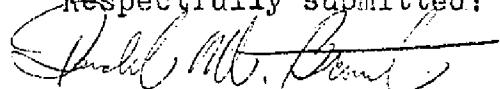
Strip 1	71-L(C)-0378 thru 0385
Strip 2	71-L(C)-0303 thru 0309
Strip 3	71-L(C)-0322 thru 0331
Strip 5	71-L(C)-0410 thru 0419
Strip 6	71-L(C)-0397 thru 0407
Strip 7	71-L(C)-0386 thru 0392

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:



Donald M. Brant
Cartographer

Approved and forwarded:



Henry P. Eichert, Chief
Aerotriangulation Section

Sketch 1

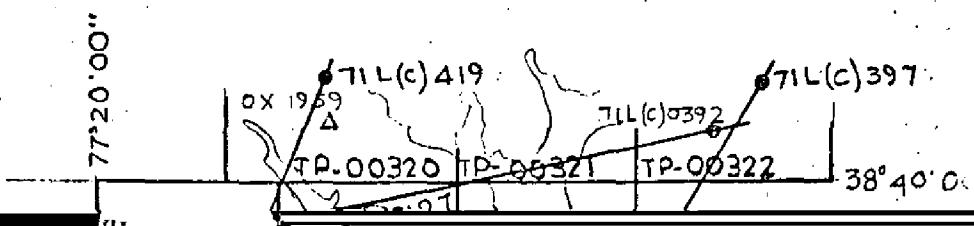
(9)

JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING

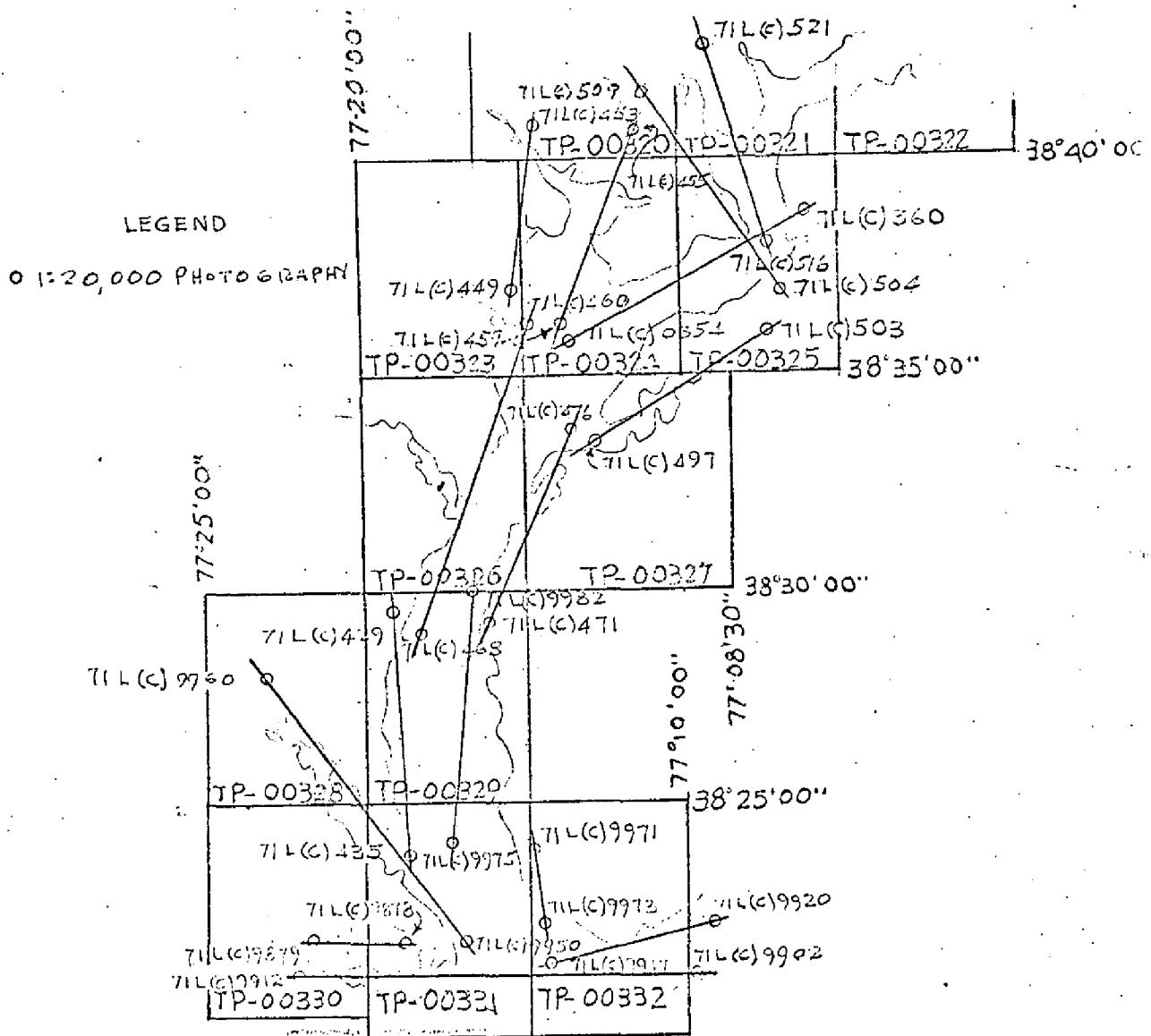
SCALE 1:10,000



Sketch 2 (10)

JOB PH-7012

UPPER POTOMAC RIVER



COMPILED REPORT
TP-00328

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.

COMPILED REPORT
TP-00328

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.
thru
45.

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.

Approved & Forwarded:

K.N. Maki
Chief, Compilation Section

Submitted by:
Patrick J. Dempsey
Patrick J. Dempsey

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 alongshore 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.

98. 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

PH-7012
TP-00328

(15)

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

Review Report TP-00328
Shoreline Survey
October 1976

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

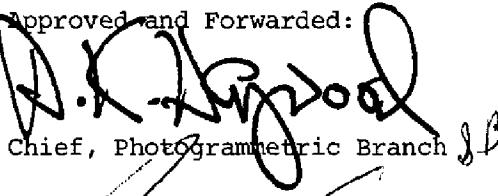
This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:

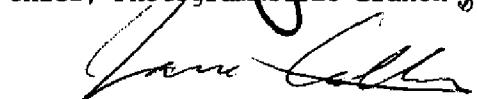


J. B. Phillips

Approved and Forwarded:



Chief, Photogrammetric Branch J.B.

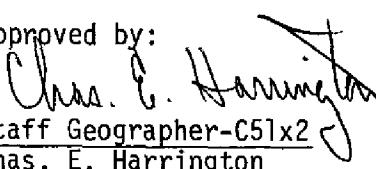


Chief, Coastal Mapping Division

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:

Staff Geographer-C51x2
Chas. E. Harrington

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

TP-00328

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.