

Public Notice

U.S. Army Corps
of Engineers
Baltimore District
PN 08-46

In Reply to Application Number
NAB-2008-01942-M22 (BA DEPRM/SHALLOW CREEK/DREDGING)

Comment Period: July 21, 2008 to August 12, 2008

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC ABOUT THE WORK DESCRIBED BELOW. AT THIS TIME, NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED.

The Baltimore District has received an application for a Department of the Army permit pursuant to the Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act (33 U.S.C 1344), as described below:

APPLICANT: Baltimore County

Department of Environmental Protection and Resource Management
401 Bosley Avenue, Suite 416
Towson, Maryland 21204-4488

LOCATION: In the main channels of Shallow Creek, located directly off of the Chesapeake Bay between Back River and the Patapsco River in southeastern Baltimore County, Maryland.

WORK: To maintenance dredge by hydraulic or mechanical method a 4,595-foot by 50-foot (approximately 229,750 square feet) main channel (Segment A) to -5.5 feet mean low water (MLW); a 1,140-foot by 40-foot (approximately 45,600 square feet) main channel (Segment B) to -5.5 feet MLW; a 100-foot by 100-foot (approximately 10,000 square feet) channel (Segment C – turning basin) to -5.5 feet mean low water; and a 700-foot by 40-foot (approximately 28,000 square feet) main channel (Segment D) to -4.5 feet MLW. The total length of the channels is 6,535 linear feet (approximately 351,714 square feet), resulting in approximately 18,461 cubic yards of silt and clay. In addition, 14 private spur channels are proposed (maintenance and new dredging), totaling approximately 33,052 square feet, to varied depths of between -4.0 feet MLW and -5.0 feet MLW, and resulting in approximately 2,202 cubic yards of silt and clay (see Summary Table). The total area proposed to be dredged for this project is approximately 384,766 square feet (8.83 acres), resulting in a total of approximately 20,663 cubic yards of material to be deposited at an existing upland (non-wetland) disposal facility at the Hart Miller Island Dredged Material Placement (DMP) Site.

The existing waterway depths range from approximately -3.6 feet MLW in the headwaters of Shallow Creek where channel segment C begins at the turning basin to approximately -5.5 in the main channel where the proposed dredging of channel segment C ends within the Chesapeake Bay. Additionally, the existing waterway depths in the headwaters of Shallow Creek where the proposed dredging of channel segment D begins range from approximately -2.4 feet MLW to approximately -4.6 feet MLW where channel segment D meets channel segment A in the main channel of Shallow Creek. Also, the existing water depths in the locations of the proposed spurs range from approximately -1.0 feet MLW to approximately -4.0 feet MLW.

Summary Table of Proposed Spurs				
	Applicant	Square Feet	Depth	Cubic Yards
1	Gysbert Dewit	646	-4.0	54
2	David V. Grammer	655	-4.0	12
3	Ghris Dernoga	1,233	-4.0	23
4	Michael & Reah Karmazyn	2,395	-4.0	202
5	Charles H. Raynor	1,483	-4.0	96
6	Allen Ashwell	1,474	-5.0	79
7	Richard & Cynthia Pollack	1,646	-5.0	110
8	Susan & Charles Darby	3,672	-3.5 & -4.0	126
9	Joan J. Lowery	3,780	-5.0	377
10	Walter B. Gietka	2,188	-4.0	41
11	Russel Spangler	400	-4.0	39
12	John Grace	4,161	-5.0	464
13	Harry Wilkins	1,690	-4.5	125
14	Anthony Marzocchi/ Thomas E. Gray, Jr.	7,629	-4.0	454
	Totals:	33,052		2,202

The channels proposed to be maintenance dredged are Federal channels which were dredged by the U.S. Army Corps of Engineers in two phases. Phase I dredging was completed in 1989. The authorized work description included to dredge a 3,900-foot by 50-foot main channel (segment A) to a depth of -5.0 feet mean low water and to dredge a 100-foot by 100-foot turning basin (segment C) to a depth of -5.0 feet at MLW. Phase II dredging was completed in 1999. The authorized work description included to dredge an 1,800-foot by 50-foot "spur" channel (segments D and B) to a depth of -4.0 feet MLW (After Dredge Surveys showed that the "spur" channel was dredged to 40 feet wide).

EFH ASSESSMENT

The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH). After reviewing the appropriate literature, these mixing water/brackish (0.5% < salinity < 25.0%) salinity zone waterways have EFH listed for the *Scophthalmus aquosus* (windowpane flounder) juvenile and adult; *Pomatomus saltatrix* (blue fish) juvenile and adult; *Peprilus triacanthos* (Atlantic butterfish) eggs, larvae, juvenile, and adult; *Paralichthys dentatus* (summer flounder) larvae, juvenile, and adult; *Centropristus striata* (black sea bass) juvenile and adult, and the eggs, larvae, juvenile, and adult stages of *Sciaenops ocellatus* (red drum), *Scomberomorus cavalla* (king mackerel), *Scomberomorus maculatus* (spanish mackerel), and *Rachycentron canadum* (cobia), managed species under the MSFCMA.

The project area is a Habitat Area of Particular Concern (HAPC). The Baltimore District has determined that the adverse effects of this project would be more than minimal, although not substantial, and an abbreviated consultation will be conducted with NMFS. No mitigative measures are recommended to minimize adverse effects on EFH at this time. This determination may be modified if additional information indicates otherwise and would change the preliminary determination.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, water supply and conservation, water quality, energy needs, safety, food and fiber production, and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or and Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act from the Maryland Department of the Environment. Any written comments concerning the work described above which relate to water quality certification must be received by the Standards and Certification Division Maryland Department of the Environment, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period as specified above to receive consideration. Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, P.O. Box 1715, Baltimore Maryland 21203-1715, within the comment period as specified above to receive consideration. The 401 certifying agency has a statutory limit of one year to make its decision.

The applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the Maryland Coastal Zone Program. This certification statement is available for inspection in the District Office; however, public comments relating to consistency must be received by the Coastal Zone Division, Maryland Department of the Environment, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period as specified above. It should be noted that CZ Division has a statutory limit of 6 months in which to make its consistency determination.

The applicant must obtain any State or local government permits which may be required.

A preliminary review of this application indicates that the proposed work will not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

Review of the latest published version of the National Register of Historic Places indicated that no registered properties listed as eligible for inclusion therein are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the requested permit.

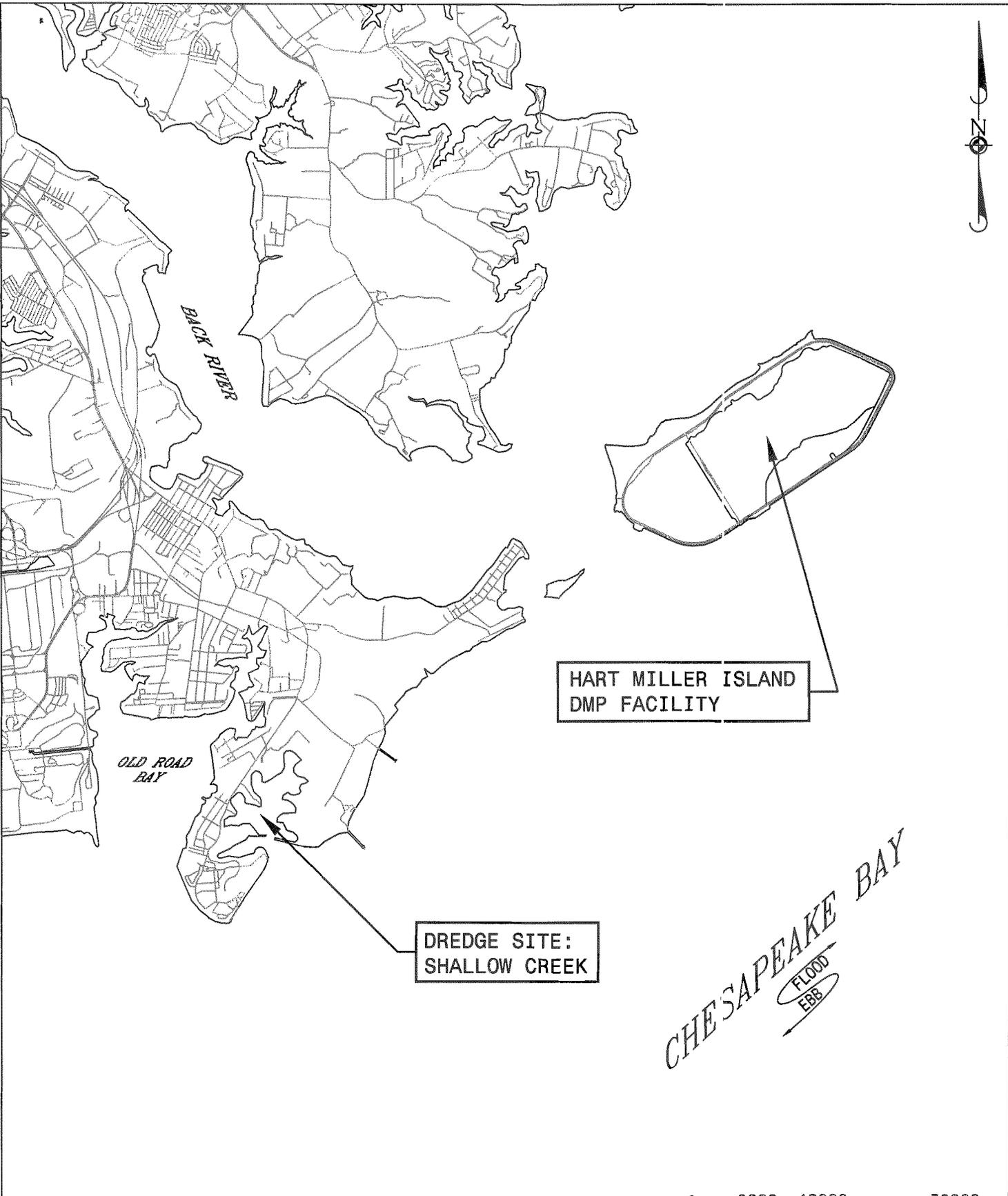
The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 of the Clean Water Act. Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, US Army Corps of Engineers, Baltimore District, P.O. Box 1715, Baltimore Maryland, 21203-1715, within the comment period as specified as above to receive consideration. Also, it must clearly state forth the interest which may be adversely affected by this activity in the manner in which the interest may be adversely affected.

It is requested that you communicate the foregoing information concerning the proposed work to any persons known by you to be interested and not being known to this office, who did not receive a copy of this notice.

FOR THE DISTRICT ENGINEER:



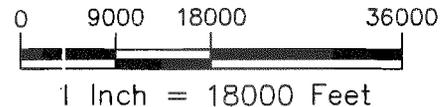
JOSEPH P. DAVIA
Chief, Maryland Section Northern



HART MILLER ISLAND
DMP FACILITY

DREDGE SITE:
SHALLOW CREEK

CHEESAPEAKE BAY
FLOOD
EBB



**PROPOSED MAINTENANCE DREDGING
SHALLOW CREEK**

BALTIMORE COUNTY, MD

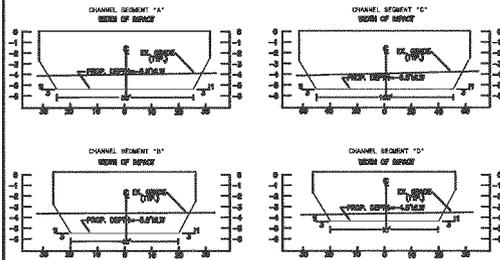
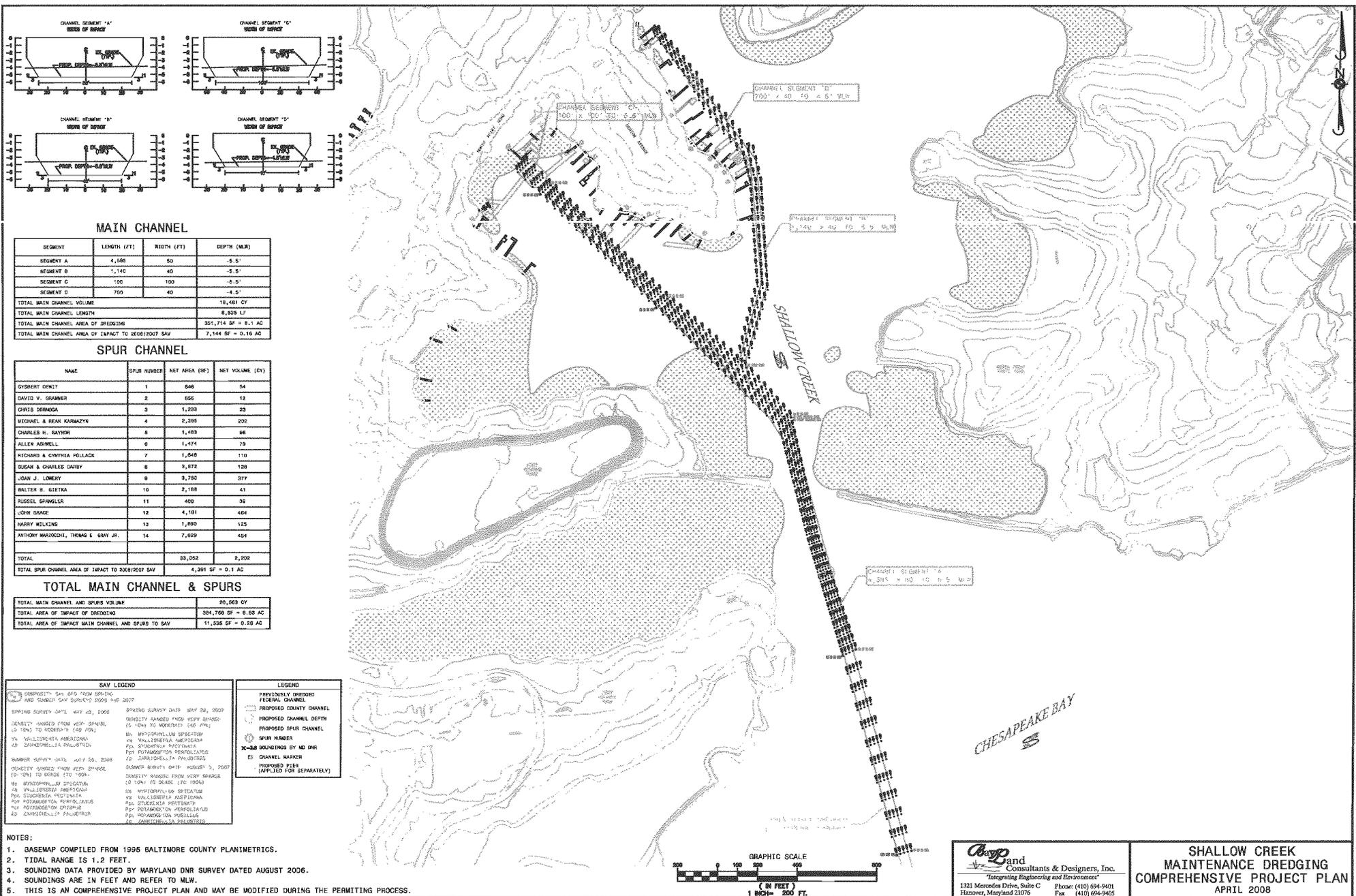
APPL. BY: BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AND RESOURCE MANAGEMENT (DEPRM)

APRIL 2008

SHEET 1 OF 19

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"Integrating Engineering and Environment"
 1321 Mercedes Drive, Suite C Phone: (410) 694-9401
 Hanover, Maryland 21076 Fax (410) 694-9405

**SHALLOW CREEK
MAINTENANCE DREDGING
VICINITY MAP**



MAIN CHANNEL

SEGMENT	LENGTH (FT)	BWIDTH (FT)	DEPTH (MLB)
SEGMENT A	4,568	50	-5.5'
SEGMENT B	7,140	40	-5.5'
SEGMENT C	100	100	-5.5'
SEGMENT D	700	40	-4.5'
TOTAL MAIN CHANNEL VOLUME			19,461 CY
TOTAL MAIN CHANNEL LENGTH			6,508 LF
TOTAL MAIN CHANNEL AREA OF DREDGING			351,714 SF = 8.1 AC
TOTAL MAIN CHANNEL AREA OF IMPACT TO 2008/2007 SAV			7,144 SF = 0.16 AC

SPUR CHANNEL

NAME	SPUR NUMBER	NET AREA (SF)	NET VOLUME (CY)
OVERBENT DENT	1	548	54
DAVID V. GRAMER	2	656	13
CARIS DRINOSA	3	1,233	23
MICHAEL & BEAN KARMAZYK	4	2,395	202
CHARLES W. RAYTOR	5	1,483	88
ALLEN ARMELL	6	1,414	79
RICHARD & CYNTHIA HOLLACK	7	1,848	110
SUSAN & CHARLES DARBY	8	3,872	128
JUAN J. LONGRY	9	3,780	377
WALTER B. GIETKA	10	2,188	41
RUSSEL SPANGLER	11	400	36
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ANTHONY MAROCCHI, THOMAS E. GRAY JR.	14	7,829	454
TOTAL		33,052	2,202
TOTAL SPUR CHANNEL AREA OF IMPACT TO 2008/2007 SAV		4,391 SF = 0.1 AC	

TOTAL MAIN CHANNEL & SPURS

TOTAL MAIN CHANNEL AND SPURS VOLUME	20,663 CY
TOTAL AREA OF IMPACT OF DREDGING	384,768 SF = 8.83 AC
TOTAL AREA OF IMPACT MAIN CHANNEL AND SPURS TO SAV	11,535 SF = 0.26 AC

RAV LEGEND

<ul style="list-style-type: none"> 1. 2008/2007 SAV FROM SOUNDING 2. 2007/2008 SAV FROM SOUNDING 3. 2007/2008 SAV FROM SURVEY 4. 2008/2007 SAV FROM SURVEY 5. 2007/2008 SAV FROM SURVEY 6. 2008/2007 SAV FROM SURVEY 7. 2007/2008 SAV FROM SURVEY 8. 2008/2007 SAV FROM SURVEY 9. 2007/2008 SAV FROM SURVEY 10. 2008/2007 SAV FROM SURVEY 11. 2007/2008 SAV FROM SURVEY 12. 2008/2007 SAV FROM SURVEY 13. 2007/2008 SAV FROM SURVEY 14. 2008/2007 SAV FROM SURVEY 15. 2007/2008 SAV FROM SURVEY 16. 2008/2007 SAV FROM SURVEY 17. 2007/2008 SAV FROM SURVEY 18. 2008/2007 SAV FROM SURVEY 19. 2007/2008 SAV FROM SURVEY 20. 2008/2007 SAV FROM SURVEY 	<ul style="list-style-type: none"> 1. 2008/2007 SAV FROM SURVEY 2. 2007/2008 SAV FROM SURVEY 3. 2008/2007 SAV FROM SURVEY 4. 2007/2008 SAV FROM SURVEY 5. 2008/2007 SAV FROM SURVEY 6. 2007/2008 SAV FROM SURVEY 7. 2008/2007 SAV FROM SURVEY 8. 2007/2008 SAV FROM SURVEY 9. 2008/2007 SAV FROM SURVEY 10. 2007/2008 SAV FROM SURVEY 11. 2008/2007 SAV FROM SURVEY 12. 2007/2008 SAV FROM SURVEY 13. 2008/2007 SAV FROM SURVEY 14. 2007/2008 SAV FROM SURVEY 15. 2008/2007 SAV FROM SURVEY 16. 2007/2008 SAV FROM SURVEY 17. 2008/2007 SAV FROM SURVEY 18. 2007/2008 SAV FROM SURVEY 19. 2008/2007 SAV FROM SURVEY 20. 2007/2008 SAV FROM SURVEY
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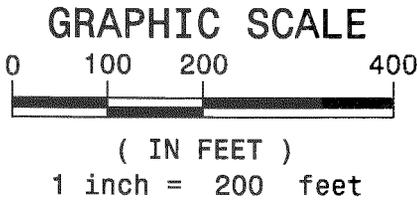
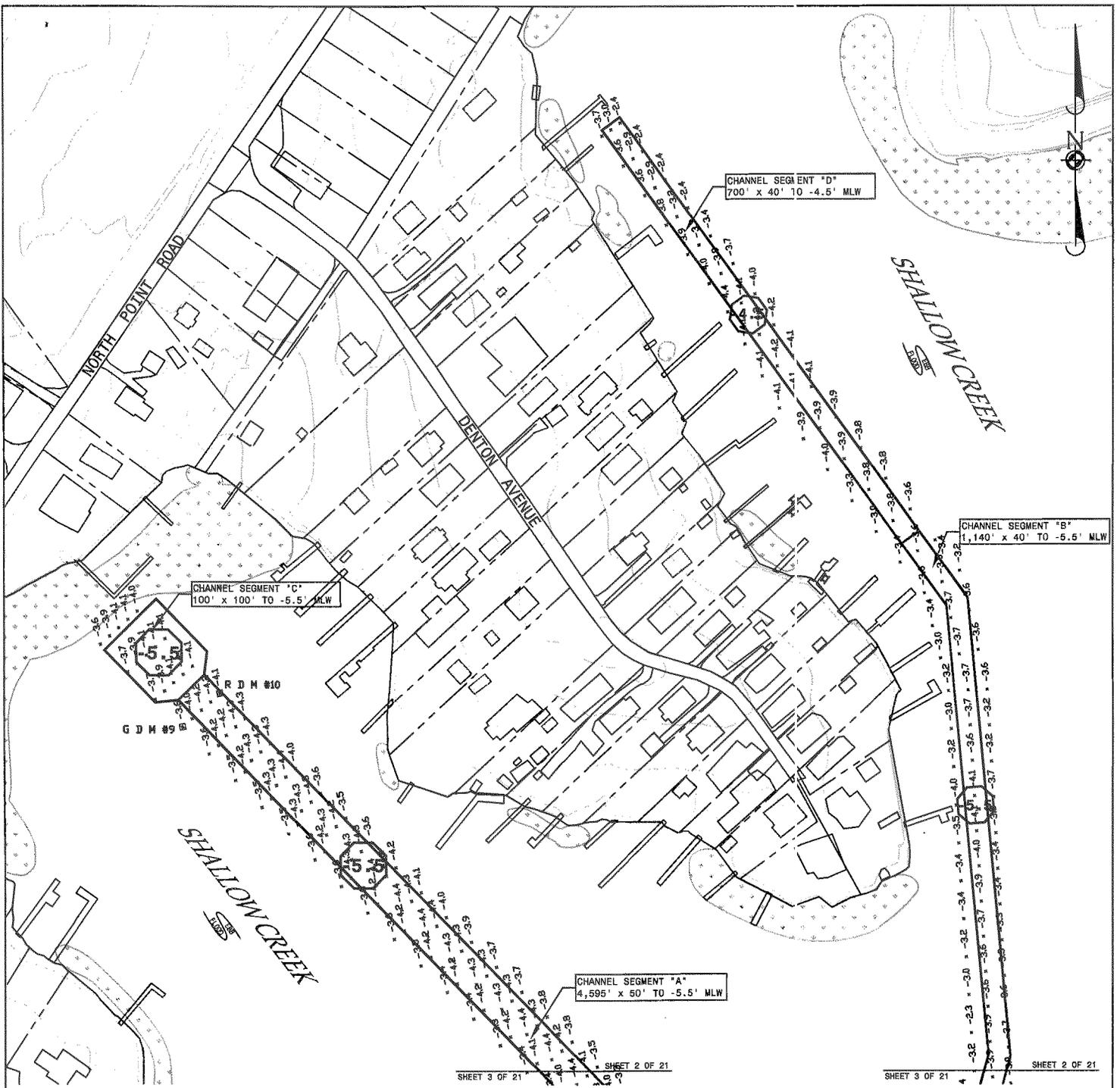
LEGEND

<ul style="list-style-type: none"> 1. PREVIOUSLY DREDGED FEDERAL CHANNEL 2. PROPOSED COUNTY CHANNEL 3. PROPOSED CHANNEL DEPTH 4. PROPOSED SPUR CHANNEL 5. SPUR NUMBER 6. CHANNEL MARKER 7. PROPOSED PIER (APPLIED FOR SEPARATELY)
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- NOTES:**
1. BASEMAP COMPILED FROM 1995 BALTIMORE COUNTY PLANIMETRICS.
 2. TIDAL RANGE IS 1.2 FEET.
 3. SOUNDINGS DATA PROVIDED BY MARYLAND DNR SURVEY DATED AUGUST 2006.
 4. SOUNDINGS ARE IN FEET AND REFER TO MLW.
 5. THIS IS AN COMPREHENSIVE PROJECT PLAN AND MAY BE MODIFIED DURING THE PERMITTING PROCESS.

Chapand
 Consultants & Designers, Inc.
 Integrating Engineering and Environment
 1321 Mecosta Drive, Suite C Hanover, Maryland 21076
 Phone: (410) 694-9401 Fax: (410) 694-9405

**SHALLOW CREEK
 MAINTENANCE DREDGING
 COMPREHENSIVE PROJECT PLAN
 APRIL 2008**



SAV LEGEND	
COMPOSITE SAV BED FROM SPRING AND SUMMER SAV SURVEYS 2006 AND 2007	
SPRING SURVEY DATE: MAY 23, 2006 DENSITY RANGED FROM VERY SPARSE (0-10%) TO MODERATE (40-70%) Va VALLISNERIA AMERICANA Zp ZANNICHELLIA PALUSTRIS	SPRING SURVEY DA'E: MAY 29, 2007 DENSITY RANGED FROM VERY SPARSE (0-10%) TO MODERATE (40-70%) Mb MYRIOPHYLLUM SPICATUM Va VALLISNERIA / MERICANA Ppc STUCKENIA PECTINATA Ppf POTAMOGETON IERFOLIATUS Zp ZANNICHELLIA PALUSTRIS
SUMMER SURVEY DATE: JULY 26, 2006 DENSITY RANGED FROM VERY SPARSE (0-10%) TO DENSE (70-100%) Mb MYRIOPHYLLUM SPICATUM Va VALLISNERIA AMERICANA Ppc STUCKENIA PECTINATA Ppf POTAMOGETON IERFOLIATUS Zp ZANNICHELLIA PALUSTRIS	SUMMER SURVEY DA'E: AUGUST 3, 2007 DENSITY RANGED FROM VERY SPARSE (0-10%) TO DENSE (70-100%) Mb MYRIOPHYLLUM SPICATUM Va VALLISNERIA / MERICANA Ppc STUCKENIA PECTINATA Ppf POTAMOGETON IERFOLIATUS Ppu POTAMOGETON IUSILLUS Zp ZANNICHELLIA PALUSTRIS

MAP LEGEND	
	PREVIOUSLY DREDGED FEDERAL CHANNEL
	PROPOSED COUNTY CHANNEL
	PROPOSED CHANNEL DEPTH
	SOUNDINGS BY MD DNR
	PROPOSED PIER (APPLIED FOR SEPARATELY)

**PROPOSED MAINTENANCE DREDGING
SHALLOW CREEK**

BALTIMORE COUNTY, MD

APPL. BY: BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AND RESOURCE MANAGEMENT (DEPRM)

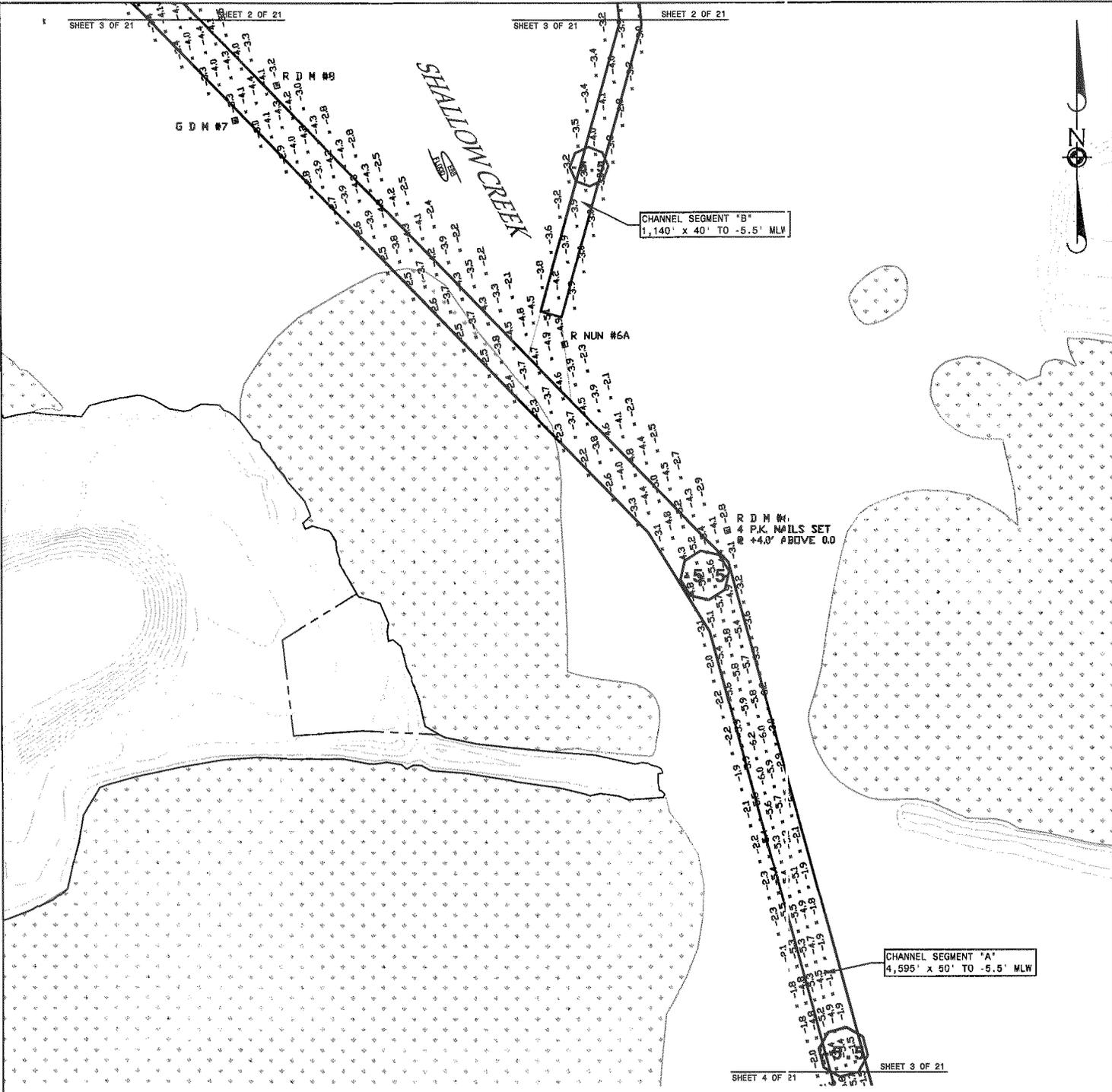
APRIL 2008

SHEET 2 OF 19

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"Integrating Engineering and Environment"

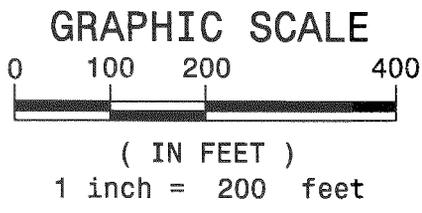
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Hanover, Maryland 21106 Fax (410) 694-9405

**SHALLOW CREEK
MAIN CHANNEL PLAN**



CHANNEL SEGMENT "B"
1,140' x 40' TO -5.5' MLW

CHANNEL SEGMENT "A"
4,595' x 50' TO -5.5' MLW



SAV LEGEND	
	COMPOSITE SAV BED FROM SPRING AND SUMMER SAV SURVEYS 2006 AND 2007
SPRING SURVEY DATE: MAY 23, 2006	
DENSITY RANGED FROM VERY SPARSE (0-10%) TO MODERATE (40-70%)	
Va	VALLISNERIA AMERICANA
Zp	ZANNICHELLIA PALUSTRIS
SUMMER SURVEY DATE: JULY 26, 2006	
DENSITY RANGED FROM VERY SPARSE (0-10%) TO DENSE (70-100%)	
Ms	MYRIOPHYLLUM SPICATUM
Va	VALLISNERIA AMERICANA
Ppc	STUCKENIA PECTINATA
Ppf	POTAMOGETON PERFORIATUS
Pcr	POTAMOGETON CRISPUS
Zp	ZANNICHELLIA PALUSTRIS
SPRING SURVEY DATE: MAY 29, 2007	
DENSITY RANGED FROM VERY SPARSE (0-10%) TO MODERATE (40-70%)	
Ms	MYRIOPHYLLUM SPICATUM
Va	VALLISNERIA / MERICANA
Ppc	STUCKENIA PECTINATA
Ppf	POTAMOGETON PERFORIATUS
Ppu	POTAMOGETON IUSILLUS
Zp	ZANNICHELLIA PALUSTRIS
SUMMER SURVEY DATE: AUGUST 3, 2007	
DENSITY RANGED FROM VERY SPARSE (0-10%) TO DENSE (70-100%)	
Ms	MYRIOPHYLLUM SPICATUM
Va	VALLISNERIA / MERICANA
Ppc	STUCKENIA PECTINATA
Ppf	POTAMOGETON PERFORIATUS
Ppu	POTAMOGETON IUSILLUS
Zp	ZANNICHELLIA PALUSTRIS

MAP LEGEND	
	PREVIOUSLY DREDGED FEDERAL CHANNEL
	PROPOSED COUNTY CHANNEL
	PROPOSED CHANNEL DEPTH
	X-3.6 SOUNDINGS BY MD DNR
	PROPOSED PIER (APPLIED FOR SEPARATELY)

**PROPOSED MAINTENANCE DREDGING
SHALLOW CREEK**

BALTIMORE COUNTY, MD

APPL. BY: BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AND RESOURCE MANAGEMENT (DEPRM)

APRIL 2008

SHEET 3 OF 19

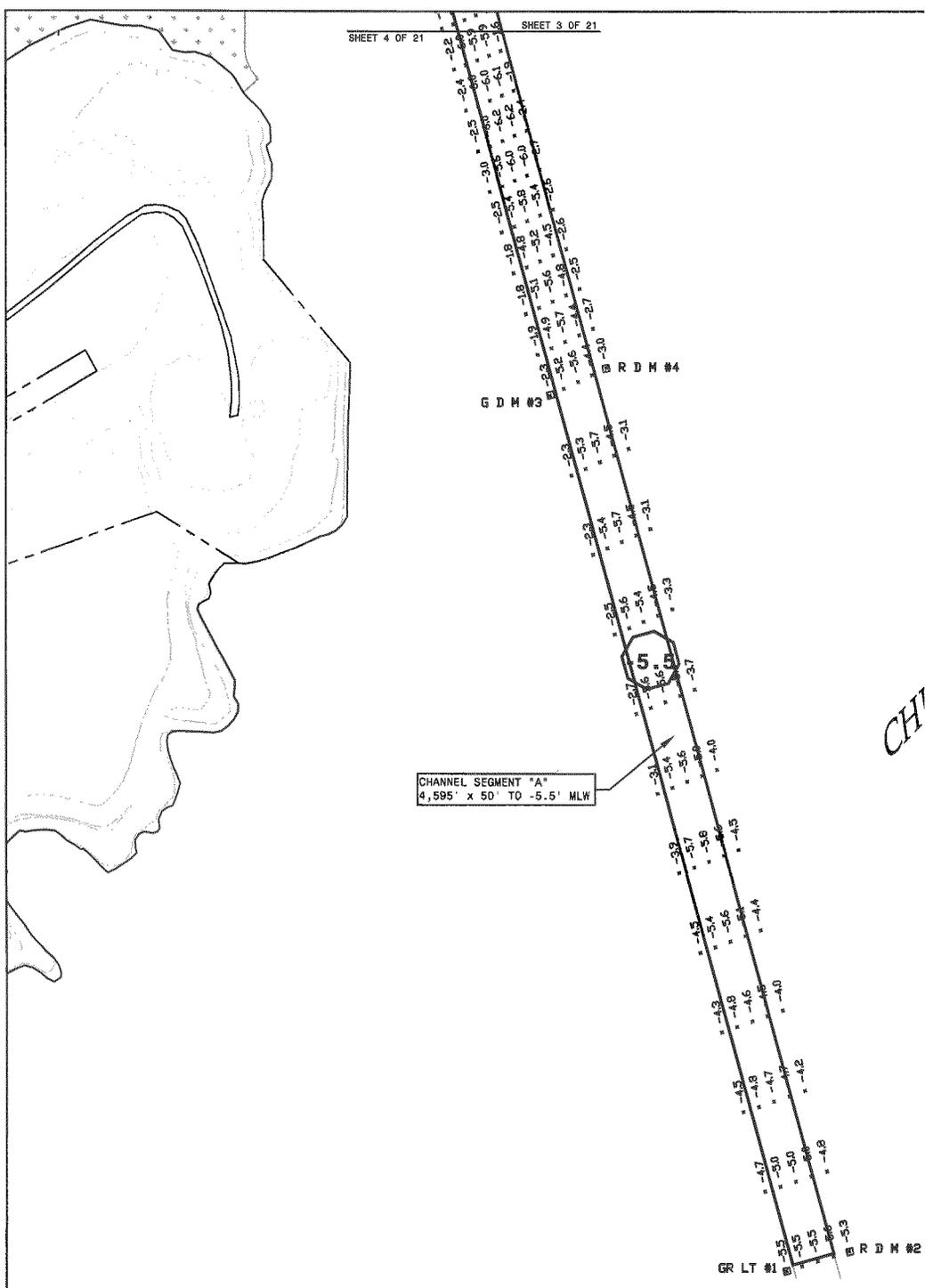
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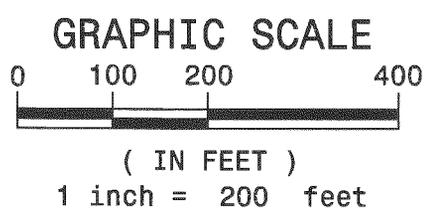
**SHALLOW CREEK
MAIN CHANNEL PLAN**



CHESAPEAKE BAY



CHANNEL SEGMENT "A"
4,595' x 50' TO -5.5' MLW



SAV LEGEND	
<p>COMPOSITE SAV BED FROM SPRING AND SUMMER SAV SURVEYS 2008 AND 2007</p> <p>SPRING SURVEY DATE: MAY 23, 2005</p> <p>DENSITY RANGED FROM VERY SPARSE (0-10%) TO MODERATE (40-70%)</p> <p>Va VALLISNERIA AMERICANA Zp ZANNICHELLIA PALUSTRIS</p> <p>SUMMER SURVEY DATE: JULY 26, 2006</p> <p>DENSITY RANGED FROM VERY SPARSE (0-10%) TO DENSE (70-100%)</p> <p>Ms MYRIOPHYLLUM SPICATUM Va VALLISNERIA AMERICANA Ppc STUCKENIA PECTINATA Ppf POTAMOGETON PERFOLIATUS Pcr POTAMOGETON CRISPUS Zp ZANNICHELLIA PALUSTRIS</p>	<p>SPRING SURVEY DATE: MAY 28, 2007</p> <p>DENSITY RANGE FROM VERY SPARSE (0-10%) TO MODERATE (40-70%)</p> <p>Ms MYRIOPHYLLUM SPICATUM Va VALLISNERIA AMERICANA Ppc STUCKENIA PECTINATA Ppf POTAMOGETON PERFOLIATUS Zp ZANNICHELLIA PALUSTRIS</p> <p>SUMMER SURVEY DATE: AUGUST 3, 2007</p> <p>DENSITY RANGE FROM VERY SPARSE (0-10%) TO DENSE (70-100%)</p> <p>Ms MYRIOPHYLLUM SPICATUM Va VALLISNERIA AMERICANA Ppc STUCKENIA PECTINATA Ppf POTAMOGETON PERFOLIATUS Ppu POTAMOGETON FUSILLUS Zp ZANNICHELLIA PALUSTRIS</p>

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	PREVIOUSLY DREDGED FEDERAL CHANNEL
	PROPOSED COUNTY CHANNEL
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	SOUNDINGS BY MD DNR
	PROPOSED PIER (APPLIED FOR SEPARATELY)

PROPOSED MAINTENANCE DREDGING
SHALLOW CREEK
BALTIMORE COUNTY, MD

APPL. BY: BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AND RESOURCE MANAGEMENT (DEPRM)

APRIL 2008

SHEET 4 OF 19

Bay and
Consultants & Designers, Inc.
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SHALLOW CREEK
MAIN CHANNEL PLAN

MAIN CHANNEL

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SEGMENT A	4,595	50	-5.5'
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SEGMENT C	100	100	-5.5'
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TOTAL MAIN CHANNEL VOLUME			18,461 CY
TOTAL MAIN CHANNEL LENGTH			6,535 LF
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SPUR CHANNEL

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CHARLES H. RAYNOR	5	1,483	96
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TOTAL MAIN CHANNEL & SPURS

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NOTES:

1. BASEMAP COMPILED FROM 1995 BALTIMORE COUNTY PLANIMETRICS.
2. TIDAL RANGE IS 1.2 FEET.
3. SOUNDING DATA PROVIDED BY MARYLAND DNR SURVEY DATED AUGUST 2006.
4. SOUNDINGS ARE IN FEET AND REFER TO MLW.
5. THESE ARE PERMIT DRAWINGS ONLY. DESIGN DRAWINGS WILL BE PREPARED SEPARATELY.
6. THIS APPLICATION IS FOR DREDGING ONLY. PROPOSED PIERS AND PILINGS WILL BE PERMITTED SEPARATELY.

PROPOSED MAINTENANCE DREDGING SHALLOW CREEK

BALTIMORE COUNTY, MD

APPL. BY: BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AND RESOURCE MANAGEMENT (DEPRM)

APRIL 2008

SHEET 19 OF 19

*Bay*Land
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SHALLOW CREEK
CHANNEL PLAN

