



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
SAVANNAH DISTRICT, CORPS OF ENGINEERS
100 W. OGLETHORPE AVENUE
SAVANNAH, GEORGIA 31401-3640

DECEMBER 05 2012

Regulatory Division
SAS-2012-00778 and SAS-2006-00598

JOINT PUBLIC NOTICE
Savannah District/State of Georgia

The Savannah District has received two applications for a Department of the Army Permit, pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344), and an application (SAS-2012-00778) for a Department of the Army Permit, pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344) as follows:

Application Numbers: SAS-2012-00778 and SAS-2006-00598

Applicant: Dr. Hameed Malik
Augusta Engineering Department
505 Telfair Street
Augusta, Georgia 30901

Agent: Mr. Hamp Simkins
Simkins Environmental Consulting, LLC.
Post Office Box 1612
Beaufort, South Carolina 29901

Location of Proposed Work: The 4 project sites proposed under the 2 applications are located in waters of the US, including wetlands that drain to the Savannah River via Rae's Creek and Rock Creek, in the City of Augusta, Richmond County, Georgia (Figures 1-3).

SAS-2012-00778

1. Hiers Pond, an in-line pond with fringe wetlands on Rae's Creek (Latitude 33.4835, Longitude -82.0612)
2. Lake Aumond, an in-line lake with fringe wetlands on Rae's Creek (Latitude 33.4833, Longitude -82.0614)

SAS-2006-00598

1. Warren Lake, an in-line lake with fringe wetlands on Rock Creek (Latitude 33.5200, Longitude -82.0125)
2. Lake Olmstead, and in-line lake with fringe wetlands on Rae's Creek (Latitude 33.4948, Longitude -82.0047)

Description of Work Subject to the Jurisdiction of the US Army Corps of Engineers:

SAS-2012-00778: The applicant is proposing to dredge and maintain Hiers Pond and Lake Aumond to restore and maintain bottom elevations to original design grades "...to improve the aesthetic values of the ponds and maintain property values for the homeowners bordering the ponds". The work would require removing up to 45,000 cubic yards of material over 14.7 acres of waters of the US, including wetlands to an unspecified upland disposal facility.

Additionally, the applicant proposes to place a diversion structure above Hiers Pond and divert water to the outfall below Lake Aumond to allow work to be performed in the dry by bulldozers, excavators, and backhoes. Permanent impacts to 0.69 acres of wetlands are proposed to be mitigated by the purchase of 3.5 wetland mitigation credits from Phinizy Swamp Mitigation Bank. Maintenance dredging of an unspecified amount is proposed on a 3 to 10 year schedule.

SAS-2006-00598: The applicant is proposing dredging to restore bottom elevations to design grades in areas of Lake Olmstead and Warren Lake, install a forebay at Warren Lake, and re-grade portions of the banks of Rae's Creek at upper Lake Olmstead "...to allow their continued use as [sediment] catchment basins serving the Augusta Canal" and to improve "recreational access to all of the proposed dredge areas, and significantly improve the aesthetic nature". The work would require removing up to 234,000 cubic yards of material over 23.4 acres of waters of the US, including wetlands. The applicant proposes to dispose of the excavated material in waters of the US, a naturalized borrow pit located between the Augusta Canal and the Savannah River (Latitude 33.5017, Longitude -81.9948).

The applicant proposes to use a floating hydraulic dredge to perform the proposed work. Permanent impacts to 1.12 acres of waters of the US, including wetlands for the construction of the forebay are proposed to be mitigated by the purchase of 7.0 wetland mitigation credits from Phinizy Swamp Mitigation Bank. In addition, permanent impacts to 3.31 acres of wetlands for the dredging operations are proposed to be mitigated by the creation of a 10 foot wide littoral shelf within Warren Lake. Maintenance dredging of an unspecified amount is proposed on an unspecified schedule.

BACKGROUND AND ADDITIONAL INFORMATION

The applicant provided a preliminary alternative analysis. For SAS-2012-00778, the applicant has evaluated the use of a hydraulic dredge versus excavating the two areas without diverting the water. For SAS-2006-00598, the applicant provided alternative information about placing a dam at the outlet of both lakes on the Augusta Canal to raise the water level.

The applicant also provided a Sediment Sampling Report for six locations: Warren Lake, Lower Lake Olmstead, Upper Lake Olmstead, Hiers Pond, Lake Aumond, and Savannah River. The screening criteria that were used for the samples were the National Oceanic and Atmospheric Administration Freshwater Sediment Threshold Effects Level and Probable Effects Level soil quality goals (1999) and the US Environmental Protection Agency Region 4

Ecological Risk Assessment Freshwater Sediment Screening Benchmark soil quality goals (2012). The results, which include exceedance in Arsenic, Cadmium, Copper, Lead, Chlordane, and DDE are located in Figure 6, attached to this Public Notice. No sampling was performed at the proposed disposal location for SAS-2006-00598.

In pre-application meetings, the agent indicated that the City of Augusta is also proposing the following work at the dredging locations:

1. Heirs Pond: Protection of an exposed sewer line and stormwater outfall structures, and maintenance of the water control structure;
2. Lake Aumond: Dam repair, maintenance of the water control structure, and installation of a trash screen; and
3. Lake Olmstead and Warren Lake: Creation of a canoe launch.

This Joint Public Notice announces a request for authorizations from both the US Army Corps of Engineers and the State of Georgia. The applicant's proposed work may also require local governmental approval.

STATE OF GEORGIA

Water Quality Certification: The applicant is required to obtain water quality certification, under Section 401 of the Clean Water Act from the Georgia Department of Natural Resources, Environmental Protection Division (GAEPD). As of the date of this Public Notice, the GAEPD has not received a 401 application for the proposed project.

State-owned Property and Resources: The applicant may also require assent from the State of Georgia, which may be in the form of a license, easement, lease, permit or other appropriate instrument.

US ARMY CORPS OF ENGINEERS

The Savannah District must consider the purpose and the impacts of the applicant's proposed work, prior to a decision on issuance of a Department of the Army Permit.

Cultural Resources Assessment: Review of the latest published version of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion are located at the project sites. Presently unknown archaeological, scientific, prehistorical or historical data may be located at the site and could be affected by the proposed work. The applicant has consulted an archaeologist for SAS-2006-00598 and “determined that no cultural resources should be adversely affected since all dredge activities will be confined to accumulated sediments within lake boundaries.” We request information from the Historic Preservation Division, Georgia Department of Natural Resources or any other interested party, on whether any resources may be present in the area.

Endangered Species: Pursuant to Section 7(c) of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.), we request information from the US Department of the Interior, Fish and Wildlife Service (USFWS), the US Department of Commerce, the National Oceanic and Atmospheric Administration, and the National Marine Fisheries Service; or, any other interested party, on whether any species listed or proposed for listing may be present in the area. Based on information from the USFWS website (<http://www.fws.gov/endangered>), wood stork (*Mycteria americana*), has the potential to occur at the project site.

Public Interest Review: 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, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and in general, the needs and welfare of the people.

Consideration of Public Comments: The US Army Corps of Engineers is soliciting comments from the public; federal, state, and local agencies and officials; Native American 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 US Army 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 an 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.

Application of Section 404(b)(1) Guidelines: The proposed activity involves the discharge of dredged or fill material into the waters of the US. The Savannah District's evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act.

Public Hearing: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application for a Department of the Army Permit. Requests for public hearings shall state, with particularity, the reasons for requesting a public hearing. The decision whether to hold a public hearing is at the discretion of the District Engineer, or his designated appointee, based on the need for additional substantial information necessary in evaluating the proposed project.

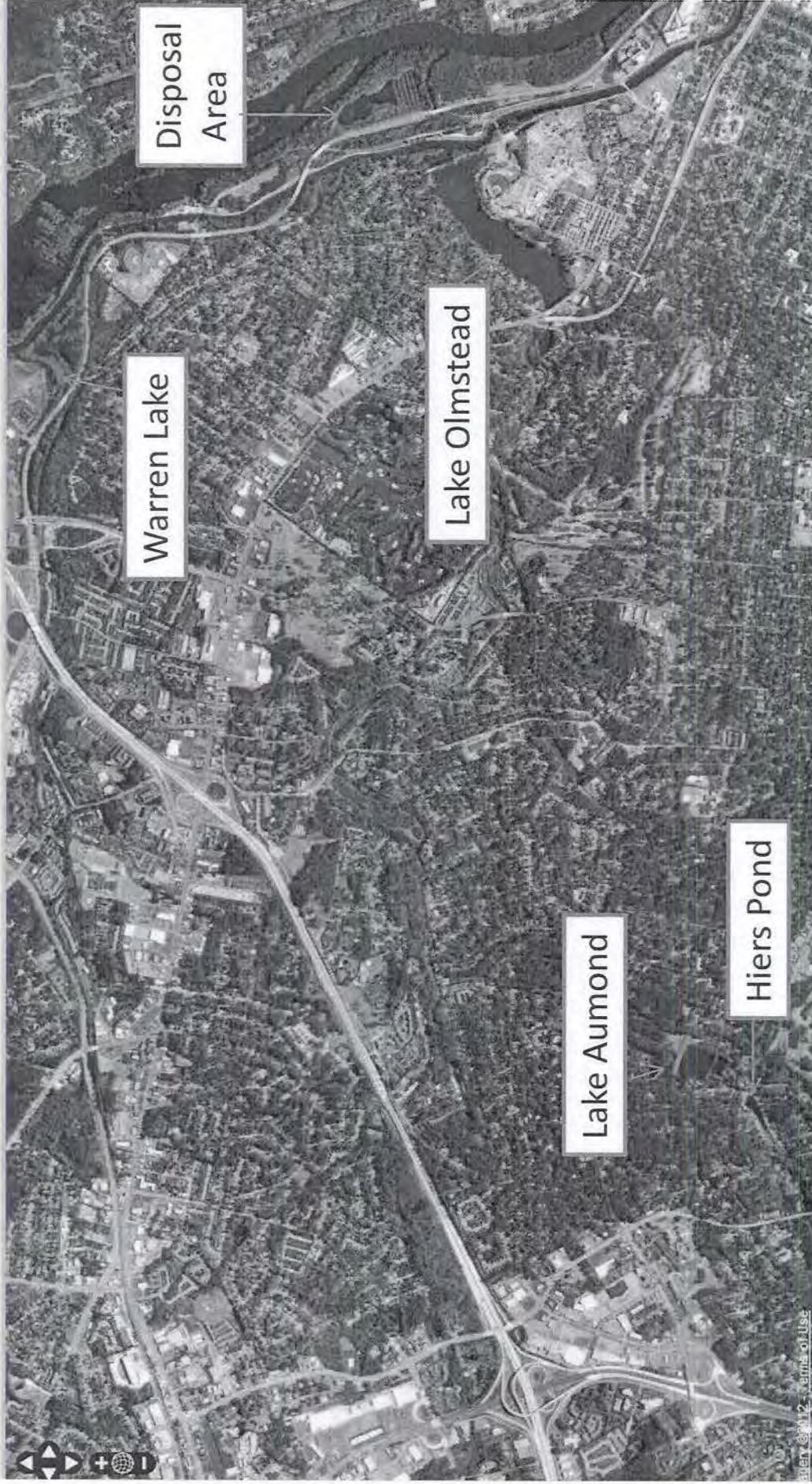
Comment Period: Anyone wishing to comment on this application for a Department of the Army Permit should submit comments in writing to the Commander, US Army Corps of Engineers, Savannah District, Attention: Mr. Forrest B. Vanderbilt, 100 W. Oglethorpe Avenue Savannah, Georgia 31401-3640, no later than 45 days from the date of this notice. Please refer to the applicant's name and the application number in your comments.

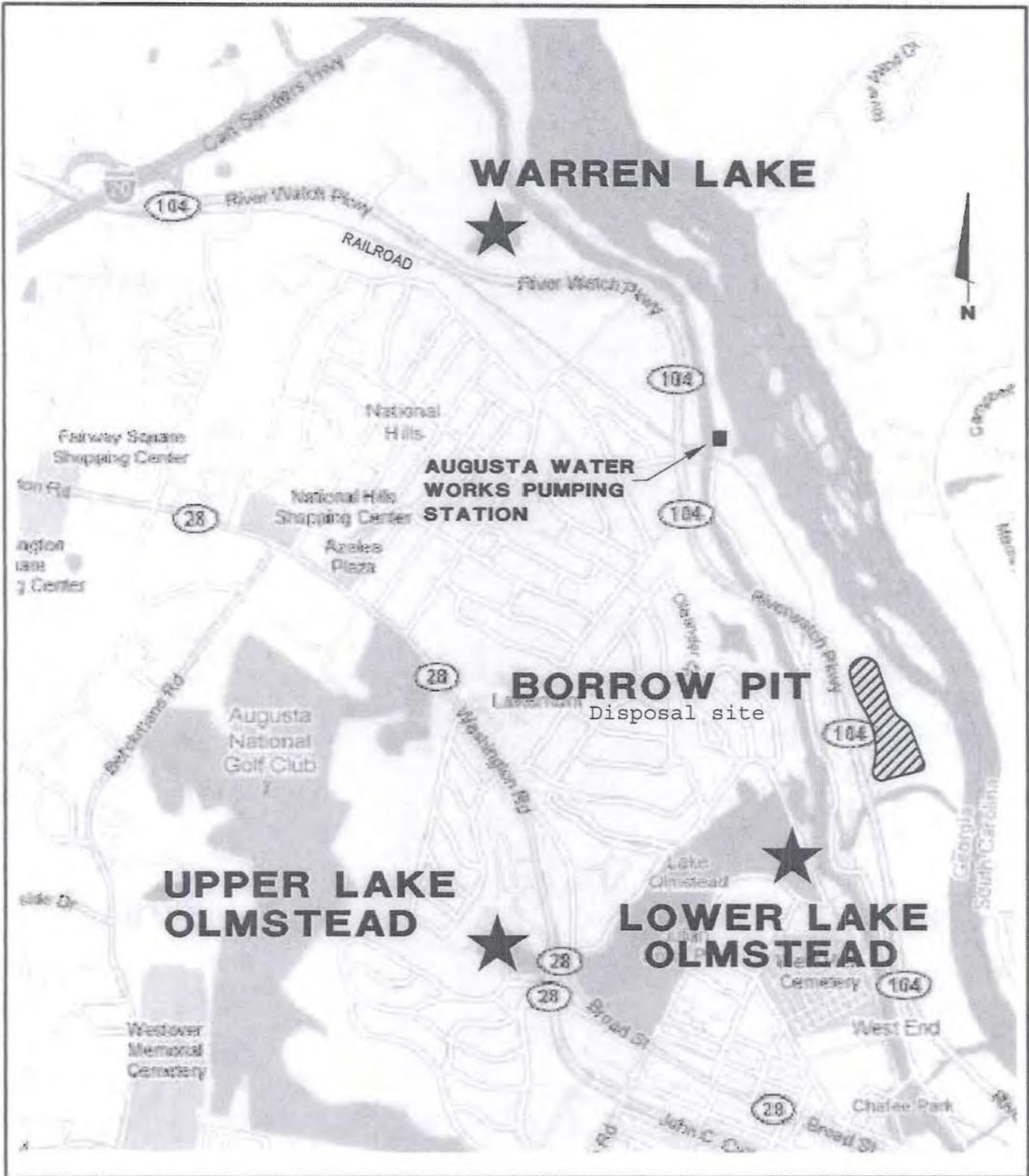
If you have any further questions concerning this matter, please contact Mr. Forrest B. Vanderbilt, Regulatory Specialist, Coastal Branch at 912-652-5051.

****Encls**

1. Overview map
2. Warren Lake and Lake Olmstead location map
3. Heirs Pond and Lake Aumond location map
4. Warren Lake and Lake Olmstead grading plans
5. Heirs Pond and Lake Aumond grading plans
6. Sediment Sampling Report Exceedances tables

AUGUSTA LAKE DREDGING PROJECTS





MASTER WETLANDS PLAN
WARREN LAKE DREDGING
 AUGUSTA, RICHMOND COUNTY, GEORGIA



LOCATION MAP
 NOT TO SCALE
 APRIL 15, 2011
 SHEET 3 OF 29

**WETLANDS
MASTER PLAN
FOR
WARREN LAKE &
LAKE OLMSTEAD DREDGING**
AUGUSTA, RICHMOND COUNTY, GEORGIA

**PREPARED FOR
THE CITY OF AUGUSTA
ENGINEERING DEPARTMENT
AUGUSTA, RICHMOND COUNTY, GEORGIA**



PREPARED BY

**Cranston Engineering Group, P.C.
ENGINEERS - PLANNERS - SURVEYORS**

452 ELLIS STREET, AUGUSTA, GEORGIA 30901
POST OFFICE BOX 2546, AUGUSTA, GEORGIA 30903
TELEPHONE 706-722-1588
FACSIMILE 706-722-8379
mail@cranstonengineering.com

**ENVIRONMENTAL CONSULTANTS:
SIMKINS ENVIRONMENTAL CONSULTING, LLC
BEAUFORT, SOUTH CAROLINA**

MASTER WETLANDS PLAN
WARREN LAKE DREDGING
AUGUSTA, RICHMOND COUNTY, GEORGIA



COVER SHEET

APRIL 15, 2011

SHEET 1 OF 29

PROJECT DATA

	<u>WARREN LAKE</u>	<u>UPPER LAKE OLMSTEAD</u>	<u>LOWER LAKE OLMSTEAD</u>	<u>BORROW PIT</u>	<u>TOTAL</u>
TOTAL PROJECT AREA	31.91 AC.	28.92 AC.	21.70 AC.	44.36 AC.	126.89 AC.

WATERS OF THE U.S.

A. JURISDICTIONAL WETLANDS

	<u>WARREN LAKE</u>	<u>UPPER LAKE OLMSTEAD</u>	<u>LOWER LAKE OLMSTEAD</u>	<u>BORROW PIT</u>	<u>TOTAL</u>
TOTAL AREA	17.17 AC.	3.37 AC.	3.31 AC.	5.54 AC.	29.39 AC.
PERENNIAL STREAMS	-	-	-	125 LF	125 LF
INTERMITTENT STREAMS	-	-	-	-	-
JURISDICTIONAL DITCH (LF) (AC)	-	-	-	925 LF 0.41 AC.	925 LF 0.41 AC.

B. OPEN WATERS

	<u>WARREN LAKE</u>	<u>UPPER LAKE OLMSTEAD</u>	<u>LOWER LAKE OLMSTEAD</u>	<u>BORROW PIT</u>	<u>TOTAL</u>
TOTAL AREA	5.29 AC.	6.83 AC.	12.01 AC.	18.79 AC.	42.92 AC.

C. TOTAL

	<u>WARREN LAKE</u>	<u>UPPER LAKE OLMSTEAD</u>	<u>LOWER LAKE OLMSTEAD</u>	<u>BORROW PIT</u>	<u>TOTAL</u>
	17.17 AC.	10.20 AC.	15.32 AC.	24.33 AC.	67.02 AC.

WETLAND IMPACTS

	<u>WARREN LAKE</u>	<u>UPPER LAKE OLMSTEAD</u>	<u>LOWER LAKE OLMSTEAD</u>	<u>BORROW PIT</u>	<u>TOTAL</u>
DREDGING	109,500 CY	90,200 CY	37,500 CY	-	237,200 CY
FILL (PERMANENT)	5500 CY (1.12 AC.)	-	-	199,700 CY	205,200 CY
FILL (TEMPORARY)	250 CY	-	-	-	250 CY
AREA OF IMPACTS	3.31 AC.	-	-	-	3.31 AC.

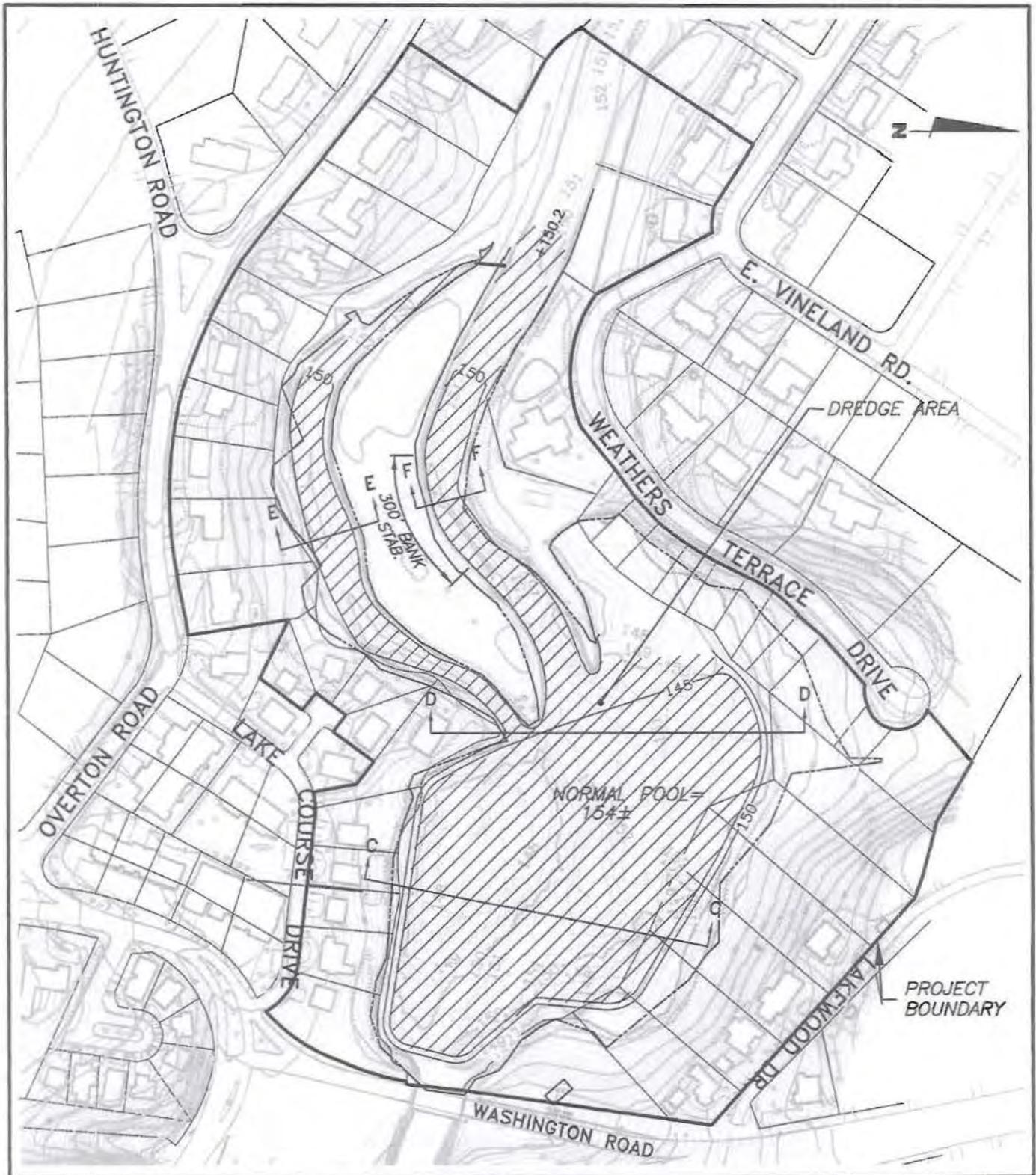
OPEN WATER IMPACTS

	<u>WARREN LAKE</u>	<u>UPPER LAKE OLMSTEAD</u>	<u>LOWER LAKE OLMSTEAD</u>	<u>BORROW PIT</u>	<u>TOTAL</u>
TOTAL AREA	5.29 AC.	9.01 AC.	5.78 AC.	24.33 AC.	44.41 AC.

MITIGATION

	<u>WARREN LAKE</u>	<u>UPPER LAKE OLMSTEAD</u>	<u>LOWER LAKE OLMSTEAD</u>	<u>BORROW PIT</u>	<u>TOTAL</u>
LITTORAL SHELF	0.94 AC.	-	-	-	0.94 AC.
BANK CREDITS	7.0	-	-	-	7.0





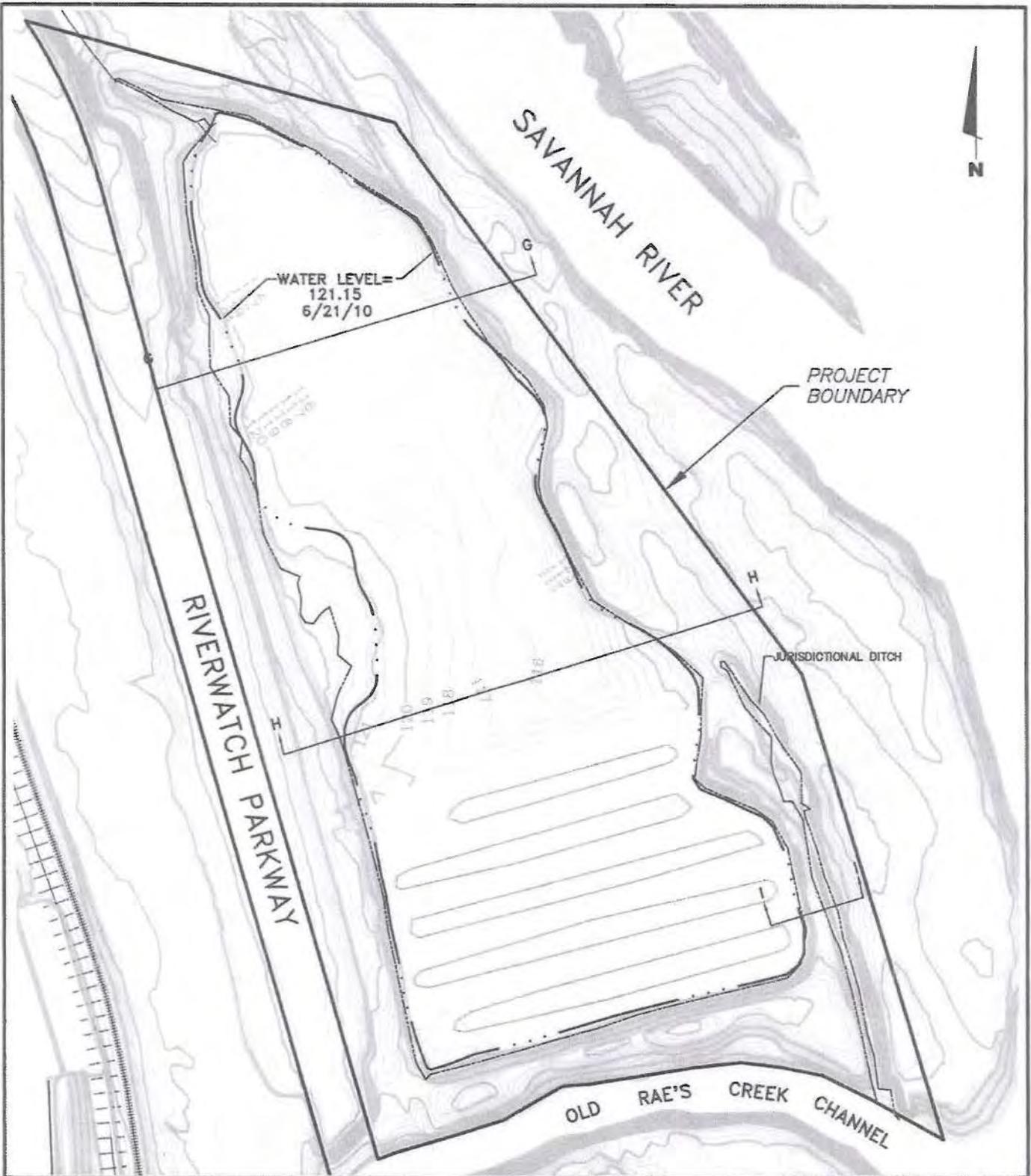
MASTER WETLANDS PLAN
WARREN LAKE DREDGING
 AUGUSTA, RICHMOND COUNTY, GEORGIA



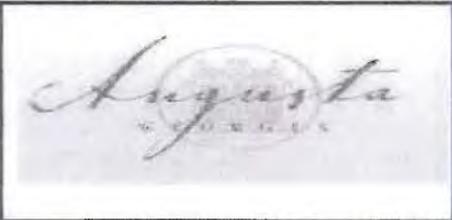
UPPER LAKE
 OLMSTEAD GRADING
 PLAN

SCALE: 1" = 200'
 APRIL 15, 2011

SHEET 16 OF 29



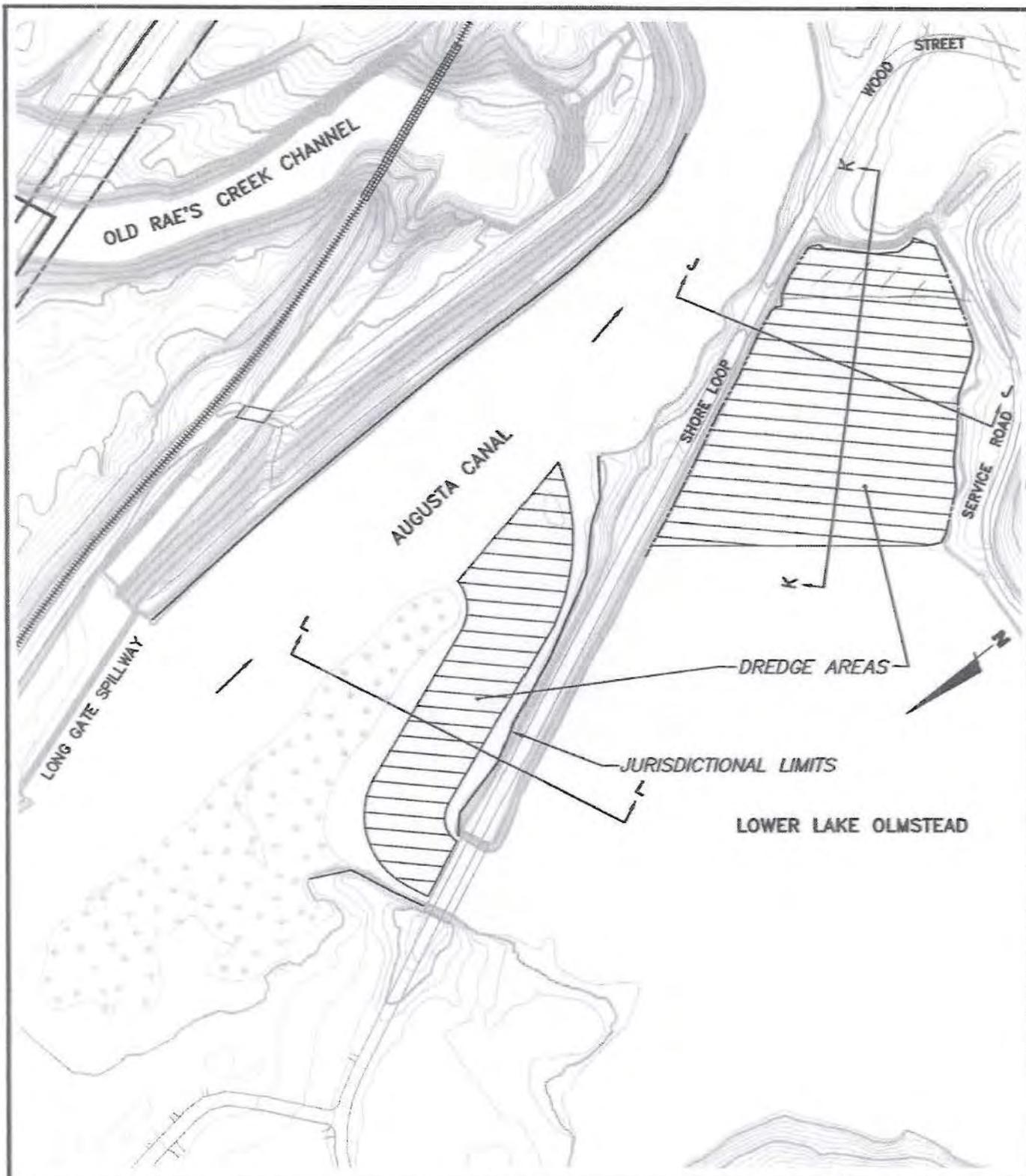
MASTER WETLANDS PLAN
WARREN LAKE DREDGING
 AUGUSTA, RICHMOND COUNTY, GEORGIA



BORROW PIT
 WETLANDS
 DELINEATION

SCALE: 1" = 250'
 APRIL 15, 2011

SHEET 17 OF 29



MASTER WETLANDS PLAN
WARREN LAKE DREDGING
 AUGUSTA, RICHMOND COUNTY, GEORGIA



LOWER LAKE
 OLMSTEAD WETLANDS
 DELINEATION

SCALE: 1" = 200'
 APRIL 15, 2011

SHEET 18 OF 29

**WETLANDS
MASTER PLAN
FOR
AUMOND LAKE &
HEIRS POND DREDGING**
AUGUSTA, RICHMOND COUNTY, GEORGIA

PREPARED FOR
**THE CITY OF AUGUSTA
ENGINEERING DEPARTMENT
AUGUSTA, RICHMOND COUNTY, GEORGIA**



PREPARED BY
Cranston Engineering Group, P.C.

ENGINEERS - PLANNERS - SURVEYORS

432 ELLIS STREET, AUGUSTA, GEORGIA 30601
POST OFFICE BOX 2546, AUGUSTA, GEORGIA 30603
TELEPHONE 706-722-1555
FACSIMILE 706-722-8379
mail@cranstonengineering.com

**ENVIRONMENTAL CONSULTANTS:
SIMKINS ENVIRONMENTAL CONSULTING, LLC
BEAUFORT, SOUTH CAROLINA**

MASTER WETLANDS PLAN
AUMOND LAKE DREDGING
AUGUSTA, RICHMOND COUNTY, GEORGIA



COVER SHEET

OCTOBER 1, 2011
SHEET 1 OF 15

PROJECT DATA

	<u>AUMOND LAKE</u>	<u>HIERS POND</u>	<u>TOTAL</u>
TOTAL PROJECT AREA	14.00 AC.	4.62 AC.	18.62 AC.

WATERS OF THE U.S.

A. JURISDICTIONAL WETLANDS

	<u>AUMOND LAKE</u>	<u>HIERS POND</u>	<u>TOTAL</u>
TOTAL AREA	NONE	NONE	0 AC.
PERENNIAL STREAMS			
INTERMITTENT STREAMS			

B. OPEN WATERS

	<u>AUMOND LAKE</u>	<u>HIERS POND</u>	<u>TOTAL</u>
TOTAL AREA	11.05 AC.	3.66 AC.	14.71 AC.

C. TOTAL

	<u>AUMOND LAKE</u>	<u>HIERS POND</u>	<u>TOTAL</u>
	AC.	AC.	AC.

WETLAND IMPACTS

	<u>AUMOND LAKE</u>	<u>HIERS POND</u>	<u>TOTAL</u>
DREDGING	CY	CY	CY
FILL (PERMANENT)			CY
FILL (TEMPORARY)			CY
AREA OF IMPACTS	11.05 AC.	3.66 AC.	14.71 AC.

OPEN WATER IMPACTS

	<u>AUMOND LAKE</u>	<u>HIERS POND</u>	<u>TOTAL</u>
TOTAL AREA	11.05 AC.	3.66 AC.	14.71 AC.

MITIGATION

	<u>AUMOND LAKE</u>	<u>HIERS POND</u>	<u>TOTAL</u>
--	--------------------	-------------------	--------------

G:\auser\edf\jw\21009\21009.dwg, Warren Lake Dredging, C:\Program Files\Autodesk\AutoCAD 2011\AutoCAD.exe, 10/1/2011 3:24:20 PM, DWG To PDF.pc3

MASTER WETLANDS PLAN
AUMOND LAKE DREDGING
AUGUSTA, RICHMOND COUNTY, GEORGIA

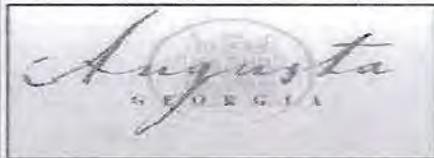


PROJECT DATA

OCTOBER 1, 2011
SHEET 6 OF 15



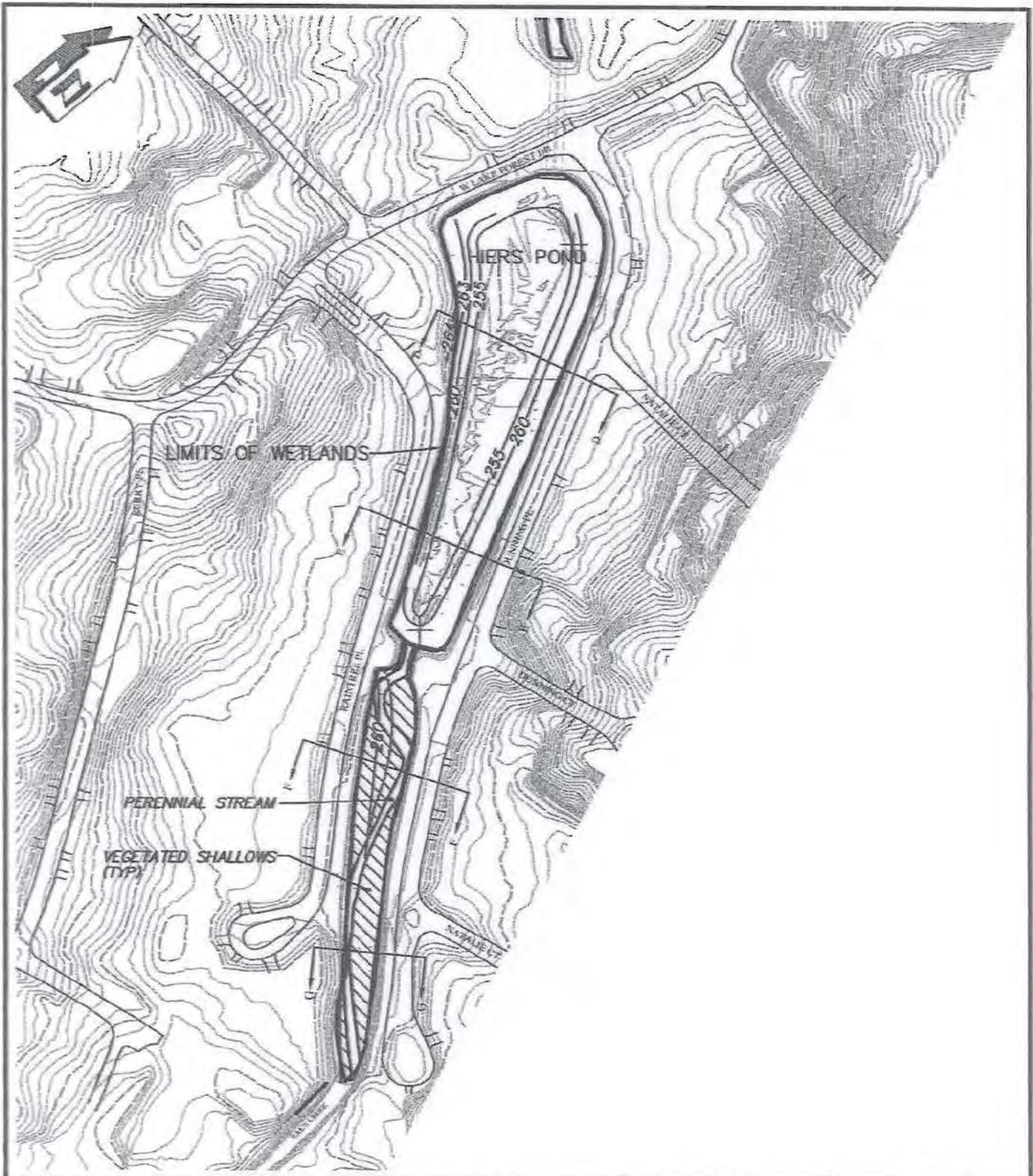
MASTER WETLANDS PLAN
AUMOND LAKE DREDGING
 AUGUSTA, RICHMOND COUNTY, GEORGIA



AUMOND LAKE
PLAN

SCALE: 1" = 200'
 OCTOBER 1, 2011

SHEET 11 OF 15



MASTER WETLANDS PLAN
AUMOND LAKE DREDGING
 AUGUSTA, RICHMOND COUNTY, GEORGIA



HEIRS POND
 CROSS-SECTIONS
 SCALE: 1" = 200'
 OCTOBER 1, 2011

SHEET 12 OF 15

3.3 Exceedances

The tables below list the samples where one or more concentration exceeded the TEL, PEL and/or the FSSB SQGs. Samples where concentrations were detected, but do not have SQGs are listed below the table. Samples with a J-flag or N-flag are estimated values.

Warren Lake

Constituent	Sample ID	Concentration	Depth	TEL Exceeded (Y or N)	PEL Exceeded (Y or N)	FSSB Exceeded (Y or N)
Manganese	ADSS01-00	545 mg/kg	0	n/a	n/a	Y
	ADSS12-00	575 mg/kg	0	n/a	n/a	Y
	ADSS02-13	1070 mg/kg	13	n/a	n/a	Y
	ADSS13-13	1110 mg/kg	13	n/a	n/a	Y
Selenium	ADSS02-13	2.38N mg/kg	13	n/a	n/a	Y
	ADSS13-13	2.52N mg/kg	13	n/a	n/a	Y
Zinc	ADSS01-00	150 mg/kg	0	Y	N	Y
	ADSS12-00	147 mg/kg	0	Y	N	Y
Chlordane	ADSS01-00	9.8j ug/kg	0	Y	Y	Y
	ADSS12-00	11j ug/kg	0	Y	Y	Y

Detected: Barium, trans-Nonachlor, cis-Nonachlor, 2,4'-DDE, 4,4'-DDE, Endosulfan I, Oxychlordane, Endrin ketone, alpha chlordane, gamma chlordane, gamma BHC (Lindane)

Lower Lake Olmstead

Constituent	Sample ID	Concentration	Depth	TEL Exceeded (Y or N)	PEL Exceeded (Y or N)	FSSB Exceeded (Y or N)
Arsenic	ADSS03-00	6.64 mg/kg	0	Y	N	N
	ADSS14-00	7.04 mg/kg	0	Y	N	N
Cadmium	ADSS03-00	0.839 mg/kg	0	Y	N	N
	ADSS14-00	0.859 mg/kg	0	Y	N	N
Copper	ADSS03-00	35 mg/kg	0	N	N	Y
	ADSS14-00	36.3 mg/kg	0	Y	N	Y
Lead	ADSS03-00	41.3 mg/kg	0	Y	N	Y
	ADSS14-00	45.4 mg/kg	0	Y	N	Y
Manganese	ADSS03-00	704 mg/kg	0	n/a	n/a	Y
	ADSS14-00	721 mg/kg	0	n/a	n/a	Y
	ADSS04-08	1620 mg/kg	8	n/a	n/a	Y
	ADSS15-08	1470 mg/kg	8	n/a	n/a	Y
Selenium	ADSS03-00	2.76N mg/kg	0	n/a	n/a	Y
	ADSS14-00	2.82N mg/kg	0	n/a	n/a	Y
	ADSS04-08	2.85N mg/kg	8	n/a	n/a	Y
	ADSS15-08	2.71 mg/kg	8	n/a	n/a	Y
Zinc	ADSS03-00	222 mg/kg	0	Y	N	Y
	ADSS14-00	233 mg/kg	0	Y	N	Y

Detected: - Barium, 2,4'-DDD, Endrin aldehyde, 4,4'-DDD, 4,4'-DDE, Heptachlordane

Upper Lake Olmstead

Constituent	Sample ID	Concentration	Depth	TEL Exceeded (Y or N)	PEL Exceeded (Y or N)	FSSB Exceeded (Y or N)
Manganese	ADSS06-05	733 mg/kg	5	n/a	n/a	Y
	ADSS17-05	632 mg/kg	5	n/a	n/a	Y
Selenium	ADSS06-05	2.92N mg/kg	5	n/a	n/a	Y
	ADSS17-05	2.87N mg/kg	5	n/a	n/a	Y
Zinc	ADSS05-00	175 mg/kg	0	Y	N	Y
	ADSS16-00	162 mg/kg	0	Y	N	Y
Chlordane	ADSS05-00	23 ug/kg	0	Y	Y	Y
	ADSS16-00	30 ug/kg	0	Y	Y	Y
	ADSS06-05	7.7j ug/kg	5	Y	N	Y
	ADSS17-05	7.2j ug/kg	5	Y	N	Y
Endosulfan I	ADSS05-00	5.4 ug/kg	0	n/a	n/a	Y
	ADSS16-00	2.9 ug/kg	0	n/a	n/a	Y
4,4'-DDE	ADSS16-00	1.7 ug/kg	0	Y	N	n/a

Detected: - Barium, trans-Nonachlor, cis-Nonachlor, 2,4'-DDD,4,4'-DDT, 4,4'-DDD, Aldrin, gamma-BHC (Lindane)

Hiers Pond

Constituent	Sample ID	Concentration	Depth	TEL Exceeded (Y or N)	PEL Exceeded (Y or N)	FSSB Exceeded (Y or N)
Zinc	ADSS07-00	153 mg/kg	0	Y	N	Y
	ADSS18-00	173 mg/kg	0	Y	N	Y
Chlordane	ADSS07-00	18 ug/kg	0	n/a	n/a	Y
	ADSS18-00	23 ug/kg	0	n/a	n/a	Y
	ADSS08-03	27 ug/kg	3	n/a	n/a	Y
	ADSS19-03	28 ug/kg	3	n/a	n/a	Y
4,4'-DDE	ADSS08-03	2.7 ug/kg	3	Y	N	n/a
	ADSS19-03	2.3 ug/kg	3	Y	N	n/a
DDT/DDE/DDD, total	ADSS08-03	5.75 ug/kg	3	n/a	n/a	Y
Toxaphene	ADSS19-03	18 ug/kg	3	n/a	n/a	Y

Detected: - Barium, 2,4'-DDT, trans-Nonachlor, cis-Nonachlor, 2,4'-DDE, Oxychlordane, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane, 2,4'-DDD, methoxychlor, 4,4'-DDD, Endrin, Dieldrin, Endosulfan I, Aldrin, Heptachlor, gamma-BHC (Lindane)

Lake Aumond

Constituent	Sample ID	Concentration	Depth	TEL Exceeded (Y or N)	PEL Exceeded (Y or N)	FSSB Exceeded (Y or N)
Selenium	ADSS10-03	2.58N mg/kg	3	n/a	n/a	Y
	ADSS21-03	2.52N mg/kg	3	n/a	n/a	Y
Zinc	ADSS09-00	149 mg/kg	0	Y	N	Y
	ADSS20-00	151 mg/kg	0	Y	N	Y
Chlordane	ADSS09-00	11j ug/kg	0	Y	Y	Y
	ADSS20-00	12j ug/kg	0	Y	Y	Y
	ADSS10-03	5.7 ug/kg	3	Y	N	Y
	ADSS21-03	7.1 ug/kg	3	Y	N	Y
4,4'-DDE	ADSS09-00	2.3 ug/kg	0	Y	N	n/a
	ADSS20-00	2 ug/kg	0	Y	N	n/a
	ADSS10-03	1.8 ug/kg	3	Y	N	n/a
	ADSS21-03	2 ug/kg	3	Y	N	n/a
DDT/DDE/DDD Total	ASDD09-00	7.09 ug/kg	0	n/a	n/a	Y
	ADSS20-00	6.09 ug/kg	0	n/a	n/a	Y

Detected: - Barium, 2,4'-DDT, trans-Nonachlor, 2,4'-DDD, 2,4'-DDE, Oxychlordane, 4,4'-DDT, Endrin aldehyde, 4,4'-DDD, alpha-Chlordane, gamma-Chlordane, Dieldrin, Endosulfan I, gamma-BHC (Lindane)

The laboratory reports are provided in **Appendix D**.