

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST REGIONAL OFFICE
20 RIVERSIDE DRIVE, LAKEVILLE, MA 02347 508-946-2700

MITT ROMNEY
Governor

STEPHEN R. PRITCHARD
Secretary

KERRY HEALEY
Lieutenant Governor

ROBERT W. GOLLEDGE, Jr.
Commissioner

PERMIT NO. 11441

Name and Address of Permittee:

Marina Harbor II Corporation
239 Dike Road
Green Harbor, MA 02041

ISSUED: August 2, 2006
EXPIRES: August 2, 2016

Permission is hereby given by the Department of Environmental Protection to: perform maintenance dredging of approximately 8,500 cubic yards of sediment from the marina mooring basin in the waters of the Green Harbor River. The dredged material shall be disposed at the Cape Cod Bay Disposal Site or at the Town of Marshfield designated dredge spoils area off Joseph Dribebeck Way.


All work authorized herein shall be in the location shown and to the dimensions and depths indicated in the permit plans titled: "Maintenance Dredging, Green Harbor River, Marshfield, Application by Marina Harbor II Corporation", dated August 8, 2003 (5 sheets) and "Town Pier Road De-watering Site 2, Plan showing the existing Town of Marshfield's de-watering basin for dredged materials", dated December, 2003 (1 sheet).

STANDARD WATERWAYS PERMIT CONDITIONS

1. Acceptance of this Waterways Permit shall constitute an agreement by the Permittee to conform to all terms and conditions stated herein.

This information is available in alternate format. Call Donald M. Gomes, ADA Coordinator at 617-556-1057. TDD Service - 1-800-298-2207.

DEP on the World Wide Web: <http://www.mass.gov/dep>

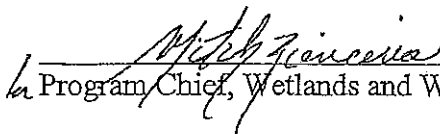
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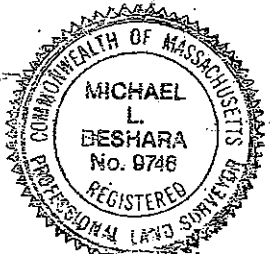
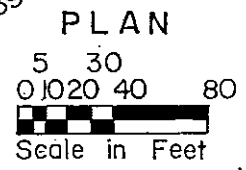
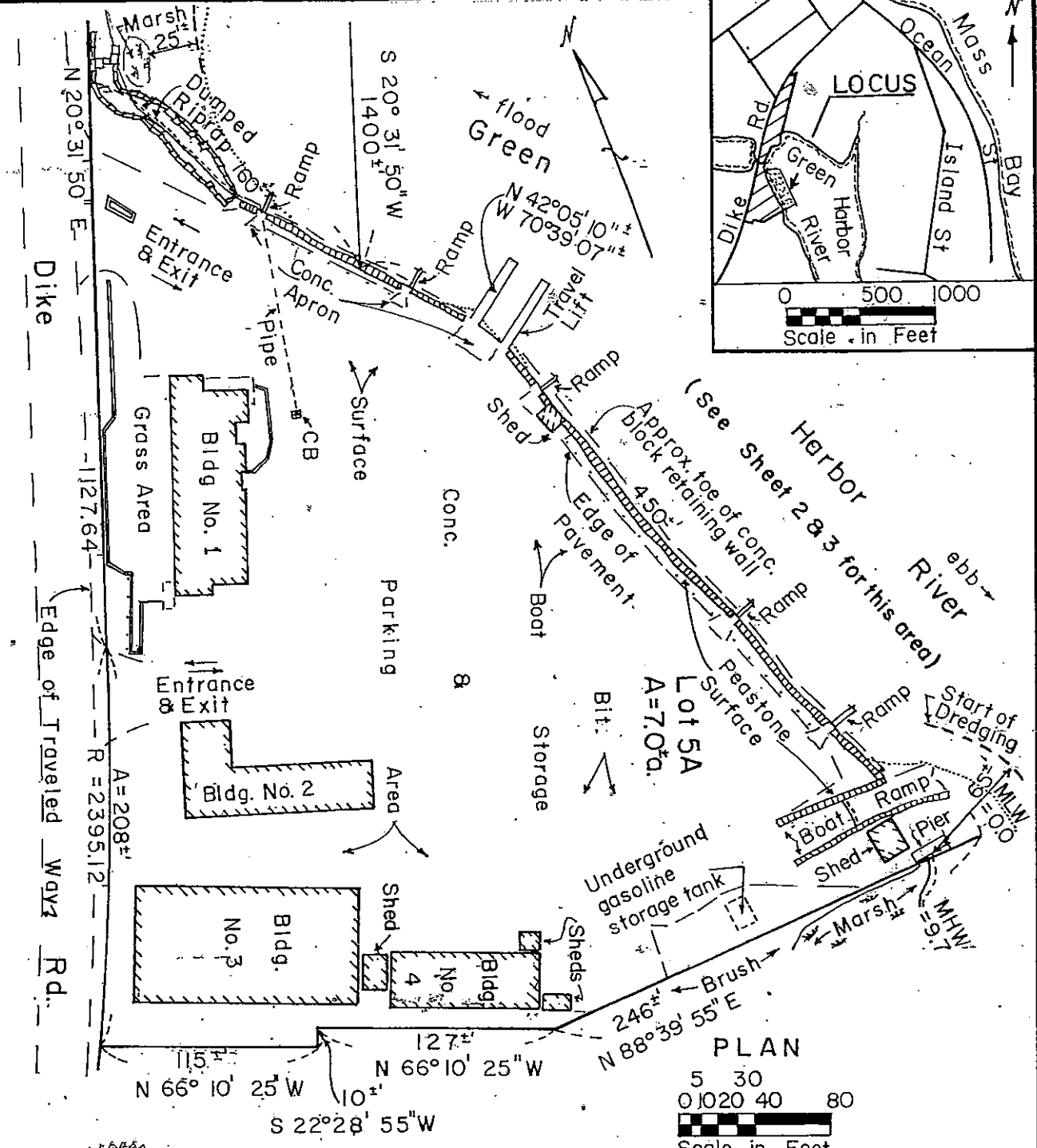
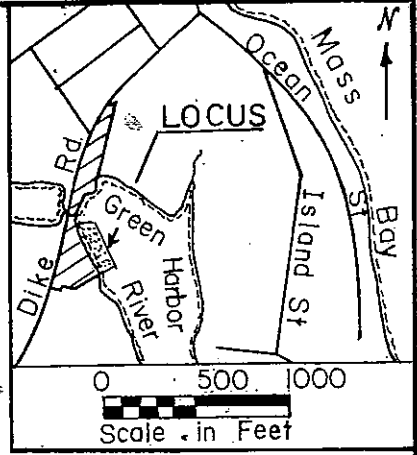
2. This Waterways Permit is issued upon the express condition that any and all other applicable authorizations necessitated due to the provisions hereof shall be secured by the Permittee prior to the commencement of any activity authorized pursuant to this Permit.
3. This Waterways Permit shall be revocable by the Department for noncompliance with the terms and conditions set forth herein. This Permit may be revoked after the Department has given written notice of the alleged noncompliance to the Permittee, or his/her agent, and those persons who have filed a written request, with the Department, for such notice and has afforded the Permittee a reasonable opportunity to correct said noncompliance. Failure to correct said noncompliance after the issuance of a written notice by the Department shall render this Waterways Permit void.
4. This Waterways Permit is issued subject to all applicable federal, state, county, and municipal laws, ordinances, by-laws, and regulations, including but not limited to, a valid Order of Conditions issued pursuant to the Wetlands Protection Act, M.G.L. Chapter 131, s.40. In particular, this issuance is subject to the provisions of Sections 52 to 56, inclusive of Chapter 91 of the General Law and its Regulations 310 CMR 9.40(5), which provides, in part, that the transportation and dumping of dredge material shall be done under the supervision of the Department, and, when required, the Permittee shall provide at his/her expense a dredge inspector approved by the Department.
5. This Waterways Permit is issued upon the express condition that dredging and transportation and disposal of dredge material shall be in strict conformance with the Water Quality Certification issued by the Department of Environmental Protection.
6. All subsequent maintenance dredging and transportation and disposal of this dredge material, during the term of this Permit, shall conform to all standards and conditions applied to the original dredging operation performed under this Permit.
7. After completion of the work authorized, the Permittee shall furnish to the Department a suitable plan showing the depths at mean low water over the area dredged. Dredging under this Permit shall be conducted so as to cause no unnecessary obstruction of the free passage of vessels, and care shall be taken to cause no shoaling. If, however, any shoaling is caused, the Permittee shall, at his/her expense, remove the shoal areas. The Permittee shall pay all costs of supervision, and if at any time the Department deems necessary a survey or surveys of the area dredged, the Permittee shall pay all costs associated with such work. Nothing in this Permit shall be construed to impair the legal rights of any persons, or to authorize dredging on land not owned by the Permittee without consent of the owner(s) of such property.
8. The Permittee shall assume and pay all claims and demands arising in any manner from the work authorized herein, and shall save harmless and indemnify the Commonwealth of Massachusetts, its officers, employees, and agents from all claims, audits, damages, costs and expenses incurred by reason thereof.
9. The Permittee shall, at least three days prior to the commencement of any dredging in tide water, give written notice to the Department of the time, location and amount of the proposed work.
10. Whosoever violates any provisions of this Permit shall be subject to a fine of \$25,000 per day for each day such violation occurs or continues, or by imprisonment for not more than one year, or both such fine and imprisonment; or shall be subject to civil penalty not to exceed \$25,000 per day for each day such violation occurs or continues.

SPECIAL WATERWAYS PERMIT CONDITIONS

1. Dredging may be performed by either hydraulic or mechanical methods.
2. Dredging shall be to a maximum of 5.0 feet below the mean low water (MLW) datum with an allowable one (1) foot over-dredge.
3. No dredging shall occur from February 1st to July 31st of any year.
4. Dredge material shall be disposed at the Cape Cod Bay Disposal Site or at the Town of Marshfield designated dredge spoils area off Joseph Dribeeck Way.
5. Maintenance dredging may be performed for a period of ten (10) years subsequent to the date of issuance of this permit.
6. No dredge material shall be disposed at the Marshfield designated dredge spoils area until the 401 Water Quality Certification, issued by the MassDEP on April 20, 2005, is amended to include this disposal option or that a new 401 Water Quality Certification is issued approving said disposal.
7. After completion of the work authorized, the Permittee shall furnish to the Department a suitable plan showing the depths at mean low water over the area dredged within 90 days of completion of dredging.

DEPARTMENT OF ENVIRONMENTAL PROTECTION


Program Chief, Wetlands and Waterways

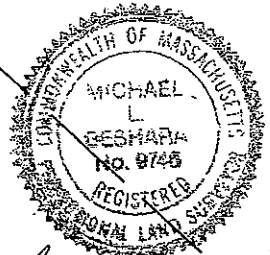
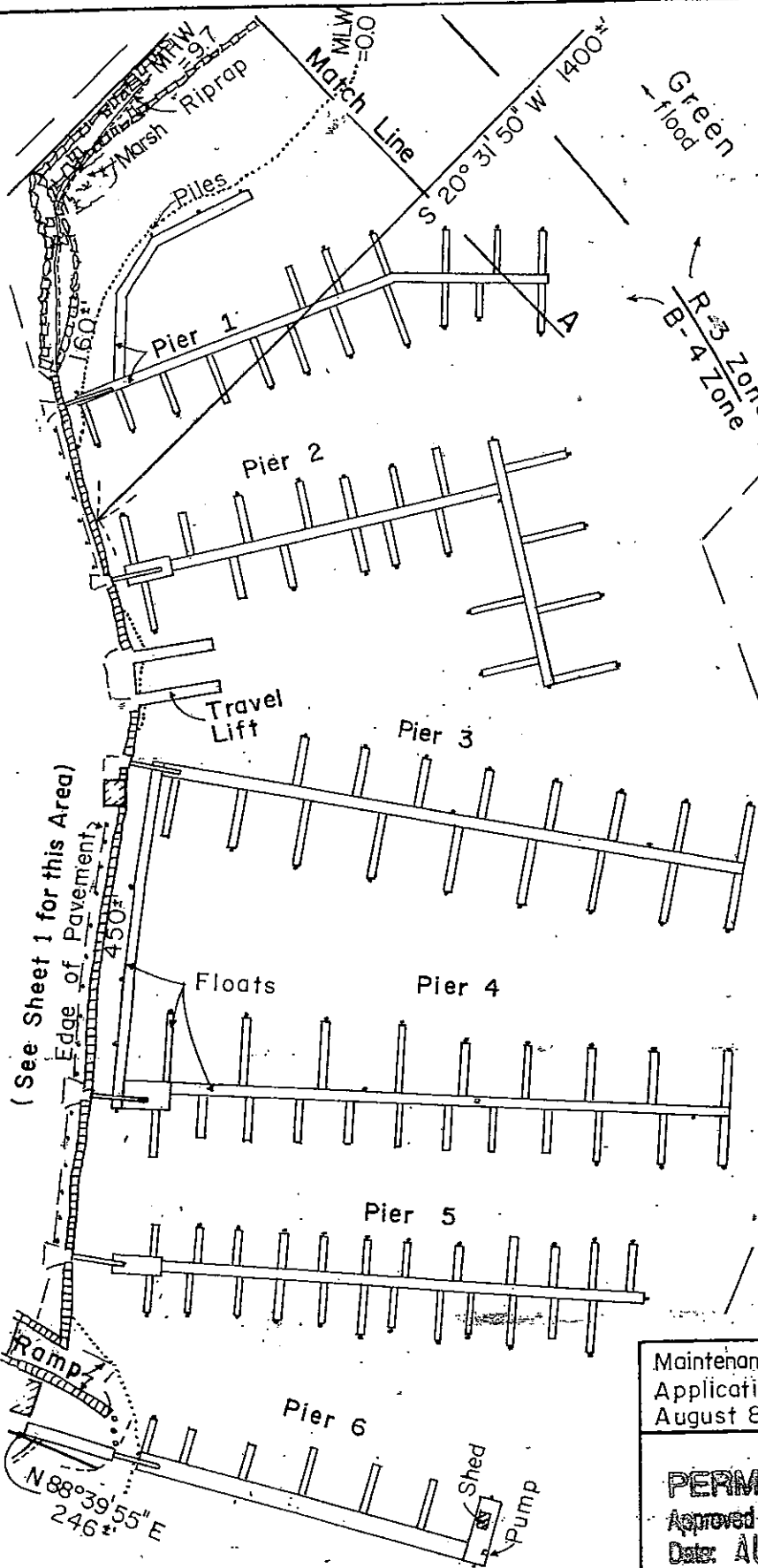
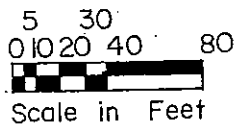


Michael L. Beshara

Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 1 of 5 Sheets

PERMIT NO. 11441
 Approved by Department of Environmental Protection
 Date: **AUG 02 2006**

PLAN



Michael L. Beshara

(See Sheet 1 for this Area)
Edge of Pavement
450'

Approximate location of the remaining Federal Channel and Turning Basin as determined from plans prepared by the USAC of E dated 5/21/02 and redesignated as an anchorage area

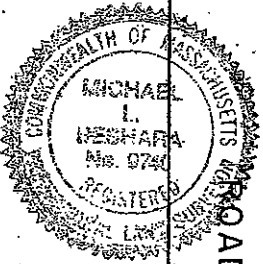
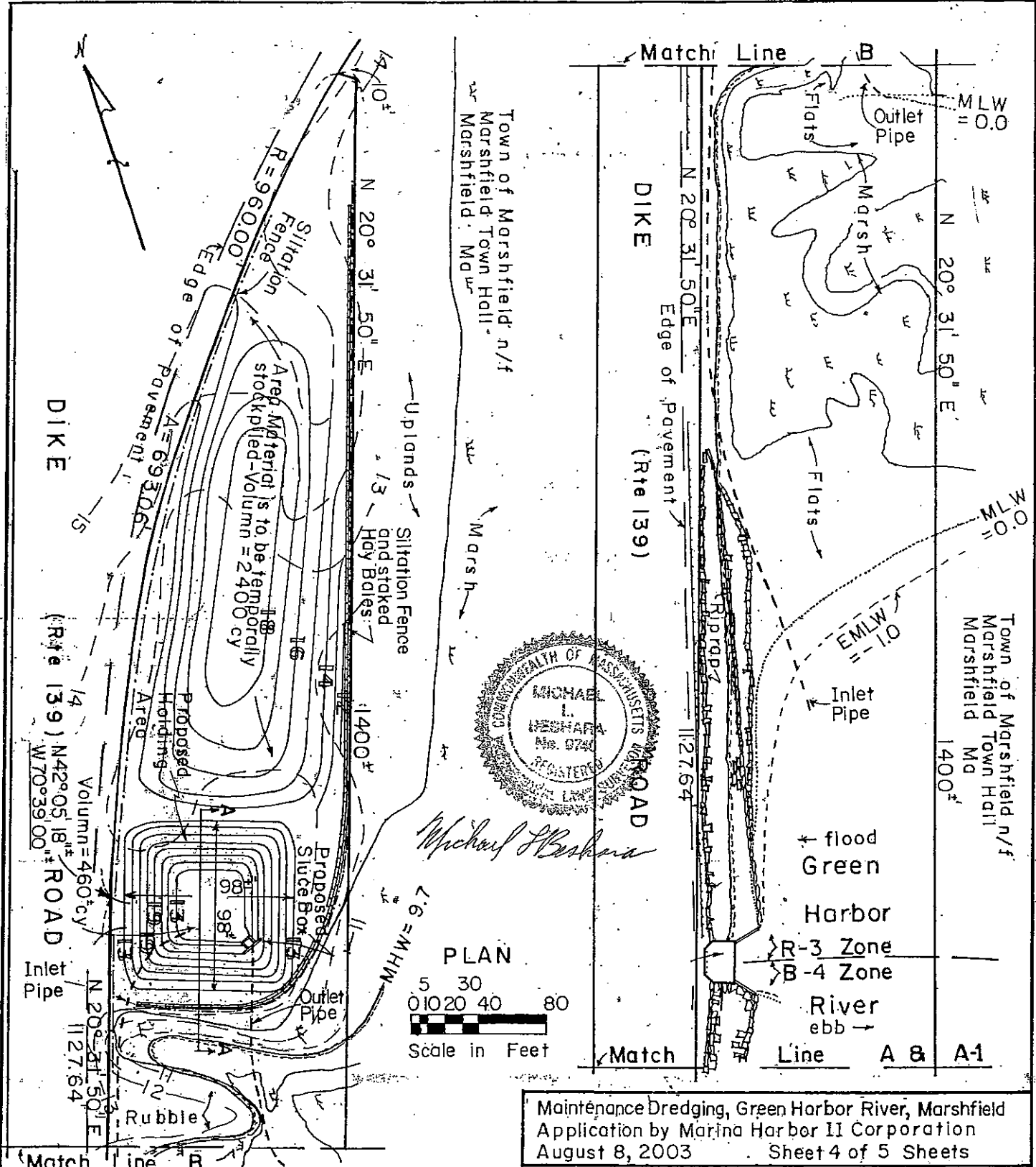
Sheet 2 of 5 Sheets

Maintenance Dredging, Green Harbor River, Marshfield
Application by Marina Harbor II Corporation
August 8, 2003 Sheet 2 of 5 Sheets

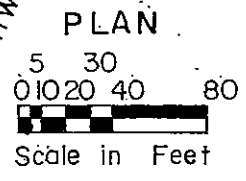
PERMIT NO. 11441

Approved by Department of Environmental Protection

Date: AUG 02 2006

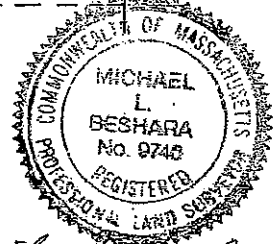
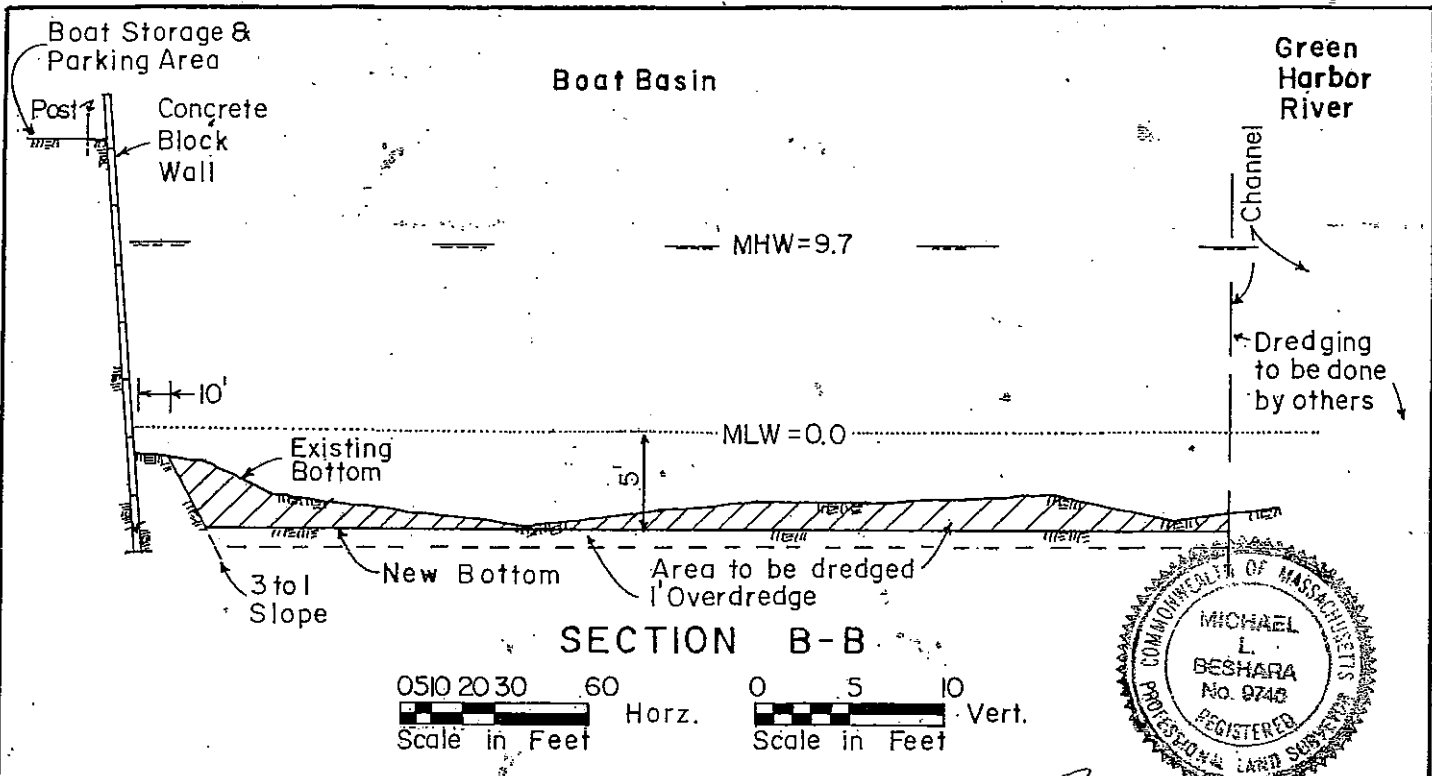


Michael Meskapa



Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 4 of 5 Sheets

PERMIT NO. 11441
 Approved by Department of Environmental Protection
 Date: **AUG 02 2006**



Notes: *Michael L. Beshara*
 These plans have been prepared for permit purposes for the dredging and disposal

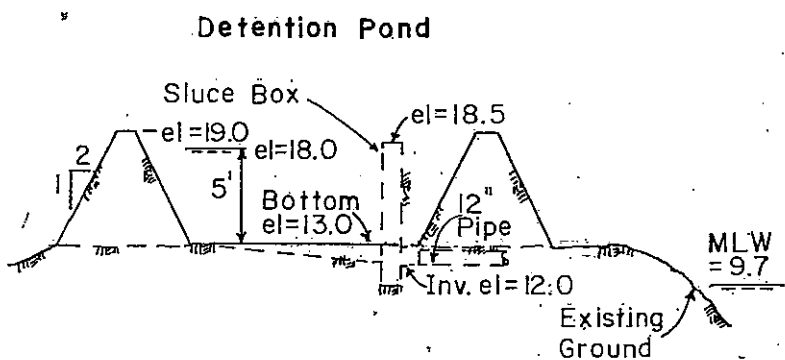
The property lines shown on these plans are not the result of an actual on the ground survey. The lines of ownership have been compiled from plans and deeds of record.

The dredging area is located in A-2, 100 year FEMA Flood Plan els= 10 & 11, NGVD, (14.8 & 15.8 mlw) and the detention area is located in the A-2, el= 10, zone.

Elevations are based on Mean Low Water.

Approximately 8,500[±]cy of material is to be dredged to -5 mlw.

Dredging to be done by either mechanical or hydraulic method



SECTION A-A

Notes Cont.

Test Samples, TP-1 thru 7, as shown on Sheet 4 were taken on 7/16/03. Results are attached, 14 pages.

Dredging envelope area = 4.1 acres
 Dredging volume to -5.0 mlw = 8,500[±]cy
 Dredging volume to -6.0 mlw = 15,100[±]cy to a 1' overdredge depth

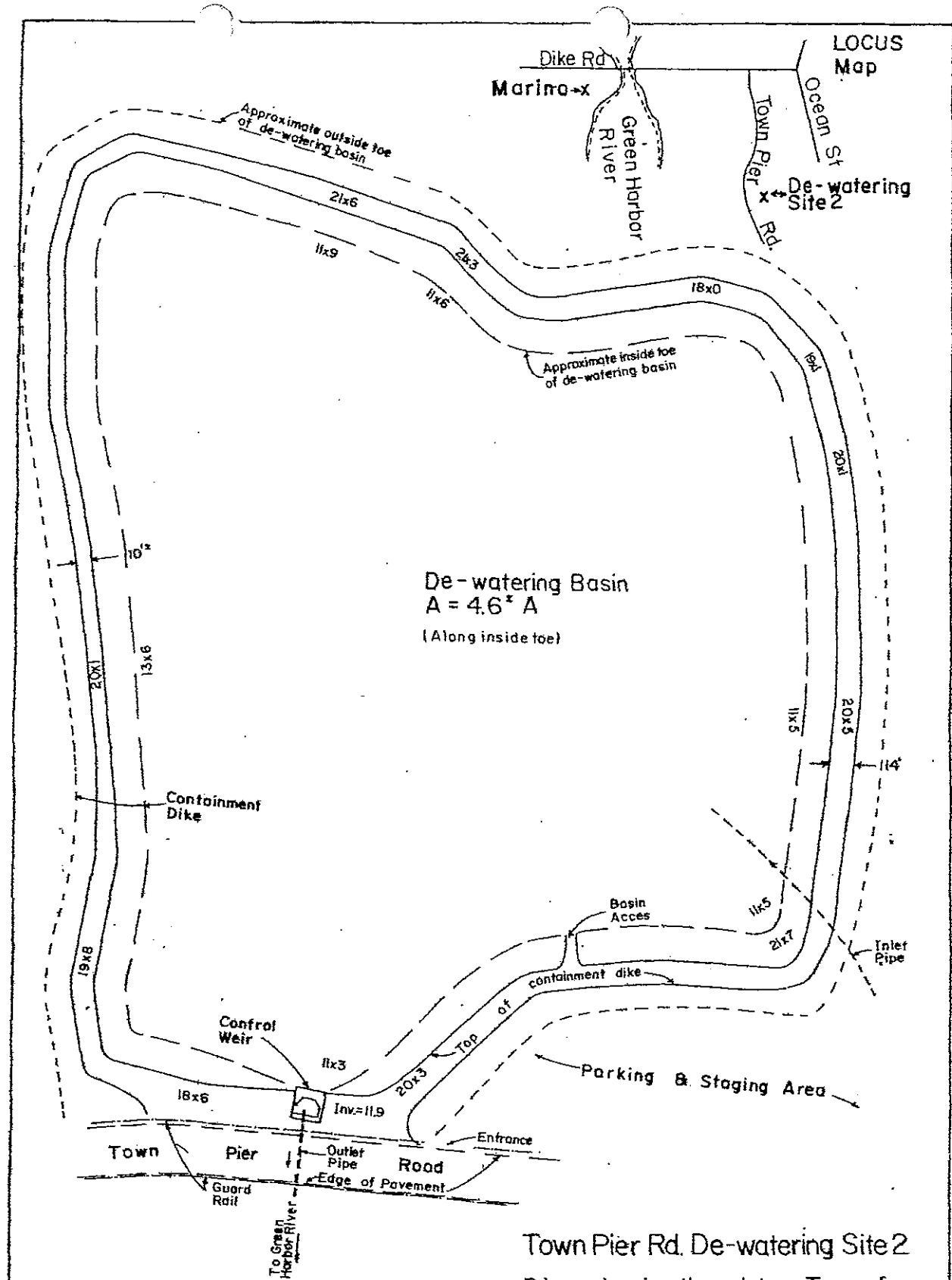
Marina References
 Licenses Nos. 497, 4187 & 5552
 Permit Nos. 66 & 221

Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 5 of 5 Sheets

PERMIT NO. 11441

Approved by Department of Environmental Protection

Date: **AUG 02 2006**



PERMIT NO. 11441

Approved by Department of Environmental Protection

Date: **AUG 02 2006**

Town Pier Rd. De-watering Site 2

Plan showing the existing Town of Marshfield's de-watering basin for dredged materials

Scale 1" = 60'

12/2003

This plan is intended to show the approximate size and shape of the Town of Marshfield's de-watering basin off of Town Pier Road

(06) 10 yr. _____ (01) 30yr _____ (02A) 99yr. _____ (02) INTERIM 30yr _____ (05) CERTOFCOOMP
Disp. None _____ \$2cy (between) ML-MH _____ \$2cy. _____ None

LICENSE AND AMNESTY APPLICATION STATUS SHEET

APPLICATION NO. WW03-0934

REVIEWER DH

TRANSMITTAL NO. W044463

DATE ASSIGNED 12/19/03

RECEIVED 12/11/03

APPL. FEES _____

INSPECTION DATE _____

PERMIT # 11441

PROCESSING:

- 1. NOTICE MAILED 12/31/03
SE 42-1513
- 2. CONS. COMMISSION 12/5/03
- 3. CLERK CERTIFICATION 6/13/06
- 4. PLAN. BOARD NOTIF. 6/12/06
- 5. NEWS AD (JOURN WAC) 1/16/04

- 1. TO PROG. MGR. _____
- 2. GOV. ? Y/N _____
- 3. NOTIFY FEE _____
- 4. FEE REC'D _____
- 5. LIC. ISSUED AUG 02 2006

- 6. WATER QUAL. CERT. 4/20/05
- 7. MEPA COMPLETE OK # 13/46, 1/22/04
- 8. PROOF OF EXISTENCE PRIOR TO 1/1/84 _____

BACK FROM GOV _____

- 9. LATERAL ACCESS Y/N
- 10. ACEC Y/N
- 11. OCEAN SANCT. Y/N
- 12. ABUTTER APPROV. Y/N
- 13. EPA Y/N
- 14. HARBOR LINE Y/N
- 15. GREAT POND Y/N
- 16. RIVER/STREAM Y/N
- 17. WETLAND RESTRICTION Y/N
- 18. AMNESTY Y/N
- 19. MYLARS (Rec. 2/1/05)

COMMENTS:

- sent PNT Monitor 12/31/03
- sent comment acknowledge 2/6/04
- issue as "draft" ?
- info. rec. 6/14/06 file complete
- No draft, copy of Permit to Lawrence Fatch

*old permit included 221
8,500 to 15,460 cy dredge*

Kevin Maguire
(781) 878-6774

45 DAYS FROM TRACKING
WATER DEFICIENCY FILE

Event	ACTUAL DATE	DEFICIENCY
DIST. RECEIVES COMPLETE APP. & FEE		
CLOCK STARTS (1 cal day after above date)		
EA ASSIGNS FILE # & MAILS LETTER (within 30 of clock starting) FILE ASSIGNED (within 30 of # assigned)		
FILE WITH CREW OF ENG OR ETR		
PUBLIC HEARING PERIOD (within 30 of latest above)		
NOTIFICATION DATE (EN + 15)		
PUBLIC HEARING (within 90 of ND)		
PUBLIC COMMENT PERIOD CLOSES License = ND+30 Permit = ND+15 Hearing = Date of hearing +10 Hearing = ND + 100 (Only if Hearing Date not specified)		
DEFICIENCY NOTICE TO SUPERVISOR (within 30 of close of Pub. Com)		
SUPERVISOR RETURNS TO REVIEWER (within 15 of receipt) REVIEWER MAILS DEFICIENCY NOTICE (within 60 of close of Pub. Com)		
RESPONSE RECEIVED TO REQUEST (within 180 of mailing)		
2nd DEFICIENCY NOT. TO SUPERVISOR (within 30 of response rec'd)		
SUPERVISOR RETURNS TO REVIEWER (within 15 of receipt)		
REVIEWER MAILS 2nd DEFICIENCY NOT. (within 60 of response rec'd)		
FILE IS COMPLETE		
REVIEWER SUBMITS LICENSE TO S.C. (within 60 of complete file)		
LICENSE ISSUED		
COMMENTS: _____		



Enter your transmittal number

W 044463

Transmittal Number

Your unique Transmittal Number can be accessed online: <http://www.state.ma.us/scripts/dep/trasmfrm.stm> or call DEP's InfoLine at 617-338-2255 or 800-462-0444 (from 508, 781, and 978 area codes).

Massachusetts Department of Environmental Protection Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. Copy 2 must accompany your fee payment. Copy 3 should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

DEP
P.O. Box 4062
Boston, MA
02211

* Note:
For BWSC Permits, enter the LSP.

A. Permit Information

BRP WW 01b

Other (Maintenance Dredging)

1. Permit Code: 7 or 8 character code from permit instructions

2. Name of Permit Category

Maintenance Dredging

3. Type of Project or Activity

B. Applicant Information - Firm or Individual

Marina Harbor II Corporation dba Green Harbor Marina

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

N/A

N/A

N/A

2. Last Name of Individual

3. First Name of Individual

4. MI

239 Dike Road (Rte 139)

5. Street Address

Green Harbor

MA

02041

781 837-1181

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

Daniel Vigneau, Treasurer

11. Contact Person

12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Marina Harbor II Corporation dba Green Harbor Marina

1. Name of Facility, Site Or Individual

239 Dike Road (Rte 139)

2. Street Address

Green Harbor

MA

02041

781 837-1181

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

1. Name of Firm Or Individual

2. Address

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. Contact Person

9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

1. Is this project subject to MEPA review? yes no
If yes, enter the project's EOE file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

Special Provisions:

1. Fee Exempt (city, town or municipal housing authority)(state agency if fee is \$100 or less).
There are no fee exemptions for BWSC permits, regardless of applicant status.
2. Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. Homeowner (according to 310 CMR 4.02).

DEP Use Only

Permit No:

Rec'd Date:

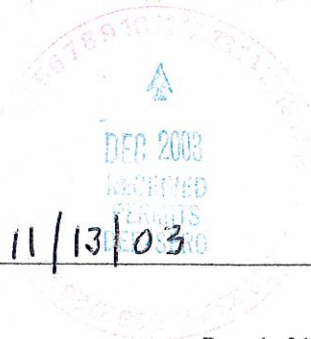
Reviewer:

001811
Check Number

\$270.00
Dollar Amount

Date

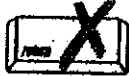
11/13/03



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Waterways Regulation Program
Chapter 91 Waterways License Application - 310 CMR 9.00
 Simplified, Water-Dependent, Nonwater-Dependent, Amendment

W 044463
 Transmittal No.

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



For assistance in completing this application, please see the "Instructions".

A. Application Information (Check one)

Name (Complete Application Sections)	Check One	Fee	Application #
SIMPLIFIED -			
Water-dependent and Nonwater-dependent (A-E)	<input type="checkbox"/> Residential with ≤ 4 units	\$55.00	BRP WW06a
	<input type="checkbox"/> Other	\$55.00	BRP WW06b
WATER-DEPENDENT -			
General (A-H)	<input type="checkbox"/> Residential with ≤ 4 units	\$125.00	BRP WW01a
	<input checked="" type="checkbox"/> Other	\$250.00	BRP WW01b
	<input type="checkbox"/> Extended Term	\$2500.00	BRP WW01c
Amendment (A-H)	<input type="checkbox"/> Residential with ≤ 4 units	\$60.00	BRP WW03a
	<input type="checkbox"/> Other	\$100.00	BRP WW03b
NONWATER-DEPENDENT -			
Full (A-H)	<input type="checkbox"/> Residential with ≤ 4 units	\$500.00	BRP WW15a
	<input type="checkbox"/> Other	\$1500.00	BRP WW15b
	<input type="checkbox"/> Extended Term	\$2500.00	BRP WW15c
Partial (A-H)	<input type="checkbox"/> Residential with ≤ 4 units	\$500.00	BRP WW14a
	<input type="checkbox"/> Other	\$1500.00	BRP WW14b
	<input type="checkbox"/> Extended Term	\$2500.00	BRP WW14c
Municipal Harbor Plan (A-H)	<input type="checkbox"/> Residential with ≤ 4 units	\$500.00	BRP WW16a
	<input type="checkbox"/> Other	\$1500.00	BRP WW16b
	<input type="checkbox"/> Extended Term	\$2500.00	BRP WW16c
Joint MEPA/EIR (A-H)	<input type="checkbox"/> Residential with ≤ 4 units	\$500.00	BRP WW17a
	<input type="checkbox"/> Other	\$1500.00	BRP WW17b
	<input type="checkbox"/> Extended Term	\$2500.00	BRP WW17c
Amendment (A-H)	<input type="checkbox"/> Residential with ≤ 4 units	\$310.00	BRP WW03c
	<input type="checkbox"/> Other	\$750.00	BRP WW03d
	<input type="checkbox"/> Extended Term	\$1000.00	BRP WW03e

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Waterways Regulation Program W 044463
Chapter 91 Waterways License Application 310 CMR 9.00
Simplified, Water-Dependent, Nonwater-Dependent, Amendment Transmittal No.

B. Applicant Information Proposed Project/Use Information

Note: Please refer to the "Instructions"

1. Applicant
Marina Harbor II Corp. d/b/a Green Harbor Marina
 Name
P.O. Box 338 239 Dike Road
 Mailing Address
Green Harbor MA 02041
 City/Town State Zip Code
(781) 837-1181 (781) 834-0163
 Telephone Number Fax Number

2. Authorized Agent (if any):
Daniel Vigneau, Treasurer
 Name
P.O. Box 338 239 Dike Road
 Mailing Address
Green Harbor MA 02041
 City/Town State Zip Code
(781) 837-1181 (781) 834-0163
 Telephone Number Fax Number

C. Proposed Project/Use Information

1. Property Information (all information must be provided):
Marina Harbor II Corporation d/b/a Green Harbor Marina
 Owner Name (if different from applicant)
M-6 Block B Lot 5A N 42-05-10 W 70-39-07
 Tax Assessor's Map and Parcel Numbers Latitude
239 Dike Road (Rte 139) Green Harbor MA 02041
 Street Address and City/Town State Zip Code

2. Registered Land Yes No

3. Name of the water body where the project site is located:
Green Harbor River

4. Description of the water body in which the project site is located (check all that apply):

Type	Nature	Designation
<input type="checkbox"/> Nontidal river/stream	<input checked="" type="checkbox"/> Natural	<input type="checkbox"/> Area of Critical Environmental Concern
<input checked="" type="checkbox"/> Flowed tidelands	<input type="checkbox"/> Enlarged/dammed	<input type="checkbox"/> Designated Port Area
<input checked="" type="checkbox"/> Filled tidelands	<input type="checkbox"/> Uncertain	<input type="checkbox"/> Ocean Sanctuary
<input type="checkbox"/> Great Pond		<input type="checkbox"/> Uncertain
<input type="checkbox"/> Uncertain		

C. Proposed Project/Use Information (cont.)

Select use(s) from Project Type Table on pg. 2 of the "Instructions"

5. Proposed Use/Activity description
 Proposed maintenance dredging to improve navigation in and around the Marina and to improve the berthing area at the Marina

6. Is the project a pre-1984 existing structure AND less than 600 square feet?

Yes No

7. Is the project a post-1984 existing or new structure, less than 300 square feet AND water dependent?

Yes No

8. What is the estimated total cost of proposed work (including materials & labor)?

\$70,000.00 +/-

9. List the name & complete mailing address of each abutter (attach additional sheets, if necessary). An abutter is defined as the owner of land that shares a common boundary with the project site, as well as the owner of land that lies within 50' across a waterbody from the project.

See Attached List

Name	Address

D. Project Plans

1. I have attached plans for my project in accordance with the instructions contained in (check one):

Appendix A (License plan) Appendix B (Simplified License plan) Appendix C (Permit plan)

2. Other State and Local Approvals/Certifications

401 Water Quality Certificate

Date of Issuance

Wetlands

SE 42-1813
 File Number

Jurisdictional Determination

JD-
 File Number

MEPA

File Number

EOE Secretary Certificate

Date

21E Waste Site Cleanup

RTN Number

E. Certification

All applicants, property owners and authorized agents must sign this page. All future application correspondence may be signed by the authorized agent alone.

"I hereby make application for a permit or license to authorize the activities I have described herein. Upon my signature, I agree to allow the duly authorized representatives of the Massachusetts Department of Environmental Protection and the Massachusetts Coastal Zone Management Program to enter upon the premises of the project site at reasonable times for the purpose of inspection."

"I hereby certify that the information submitted in this application is true and accurate to the best of my knowledge."

Applicant's signature



Date

12-10-03

Marina Harbor II Corporation d/b/a Green Harbor Marina
Property Owner's signature (if different than applicant)

Date

Agent's signature (if applicable)

Date

APPLICANTS FILING A SIMPLIFIED APPLICATION STOP HERE

F. Waterways Dredging Addendum

1. Provide a description of the dredging project

Maintenance Dredging (include last dredge date & permit no.) Improvement Dredging

To improve navigation in and around the Marina and to improve the berthing area at the Marina
Purpose of Dredging

2. What is the volume (cubic yards) of material to be dredged?

8,500 to -5 mlw & 15,400 to
-6 mlw (1' Overdredge)

3. What method will be used to dredge?

Hydraulic

Mechanical

Other

4. Describe disposal method and provide disposal location (include separate disposal site location map)

For hydraulic dredging's upland disposal, see Sheet 4 of Project Plans and Page 1 of Appendix B.
For mechanical dredging, see Pages 2 & 3 of Appendix B for the Mass Bay & Cape Cod Disposal
Sites

5. Provide copy of grain size analysis. If grain size is compatible for beach nourishment purposes, the Department recommends that the dredged material be used as beach nourishment for public beaches. **Note:** In the event beach nourishment is proposed for private property, pursuant to 310 CMR 9.40(4)(a)1, public access easements below the existing high water mark shall be secured by applicant and submitted to the Department.

See attached Laboratory Report from SP Engineering
Technology, dated 9/5/03

G. Municipal Zoning Certificate

Marina Harbor II Corporation d.b.a. Green Harbor Marina

Name of Applicant

239 Dike Road Green Harbor, MA

Project street address

Green Harbor River

Waterway

Marshfield

City/Town

Description of use or change in use:

To perform maintenance dredging with upland disposal and/or disposal at sea. Dredging to be to -5 MLW with a volume of 8,500+/- cy., with a permitted one foot overdredge to -6 MLW with a total volume of 15,400 +/- cy.

To be completed by municipal clerk or appropriate municipal official:

"I hereby certify that the project described above and more fully detailed in the applicant's waterways license application and plans is not in violation of local zoning ordinances and bylaws."

Michael J Clancy

Printed Name of Municipal Official

Michael J Clancy

Signature of Municipal Official

Dwight Commissioner

Title

6-13-06

Date

Marshfield

City/Town

H. Municipal Planning Board Notification

Notice to Applicant:

Section H should be completed and submitted along with the original application material.

Marina Harbor II Corporation d.b.a. Green Harbor Marina
 Name of Applicant
239 Dike Road Green Harbor, MA Green Harbor River Marshfield
 Project street address Waterway City/Town

Description of use or change in use:

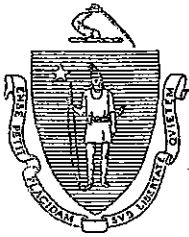
To perform maintenance dredging with upland disposal and/or disposal at sea. Dredging to be to -5 MLW with a volume of 8,500+/- cy., with a permitted one foot overdredge to -6 MLW with a total volume of 15,400+/- cy.

To be completed by municipal clerk or appropriate municipal official:

"I hereby certify that the project described above and more fully detailed in the applicant's waterways license application and plans have been submitted by the applicant to the municipal planning board."

Paul Halkiotis 6/12/06
 Printed Name of Municipal Official Date
Paul Halkiotis Town Planner Marshfield
 Signature of Municipal Official Title City/Town

Note: Any comments, including but not limited to written comments, by the general public, applicant, municipality, and/or an interested party submitted after the close of the public comment period pertaining to this Application shall not be considered, and shall not constitute a basis for standing in any further appeal pursuant to 310 CMR 9.13(4) and/or 310 CMR 9.17.



The Commonwealth of Massachusetts

Executive Office of Environmental Affairs

251 Causeway Street, Suite 900

Boston, MA 02114-2119

MITT ROMNEY
GOVERNOR

KERRY HEALEY
LIEUTENANT GOVERNOR

ELLEN ROY HERZFELDER
SECRETARY

Tel. (617) 626-1000
Fax (617) 626-1181
<http://www.mass.gov/envir>

January 22, 2004

**CERTIFICATE OF THE SECRETARY OF ENVIRONMENTAL AFFAIRS
ON THE
ENVIRONMENTAL NOTIFICATION FORM**

PROJECT NAME : Green Harbor Marina Dredging Project
PROJECT MUNICIPALITY : Marshfield
PROJECT WATERSHED : South Coastal
EOEA NUMBER : 13146
PROJECT PROPONENT : Marina Harbor II Corporation
DATE NOTICED IN MONITOR : November 26, 2003

Pursuant to the Massachusetts Environmental Policy Act (G. L., c. 30, ss. 61-62H) and Section 11.06 of the MEPA regulations (301 CMR 11.00), I determine that this project **does not require** the preparation of an Environmental Impact Report (EIR).

As described in the Environmental Notification Form (ENF), the proposed project involves the hydraulic maintenance dredging of approximately 15,000 cubic yards (c.y.) of dredge spoils from approximately 4.1 acres (164,340 square feet (sf)) of an existing marina located in the Green River Harbor in Marshfield. The project may also involve modifications to the existing floating dock configuration. The proposed maintenance dredging project is being proposed in conjunction with the hydraulic maintenance dredging of the Green River and boat basins to be completed by the Corps of Engineers and the Town of Marshfield, anticipated for the Fall of 2004.

The proponent has identified two previously-used locations for the dewatering and temporary storage of the project's dredged sediment: on property owned by the proponent and located across from the marina on the northerly side of the Green River (Dewatering Area 1), or on Town of Marshfield property also located across from the marina on the northerly side of the Green River (Dewatering Area 2).

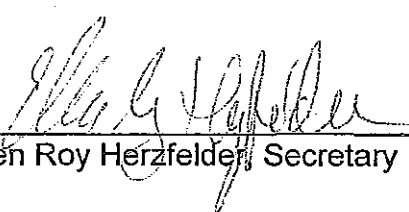
The project is undergoing review pursuant to section 11.03 (3)(b)(3) of the MEPA regulations, because the project requires state permitting and results in the dredging of 10,000 or more (approximately 15,000 cy total) cubic yards of material. The project will require a Chapter 91 License and a Water Quality Certificate from the Department of Environmental Protection (DEP) and an Order of Conditions from the Marshfield Conservation Commission (and hence a Superseding Order of Conditions from DEP if the local Order is appealed). The project will also require a 401 Water Quality Certification from DEP and a General Program Category I Permit from the U.S. Army Corps of Engineers. The project may require a Consistency Review by the Office of Coastal Zone Management (CZM).

The proponent is not seeking state funding or financial assistance for the proposed project. MEPA jurisdiction therefore is limited to those aspects of the project within the subject matter of any required or potentially required state permits that have the potential to produce significant damage to the environment (wetlands and water quality).

I conclude that no further MEPA review is required. The review of the ENF has served to demonstrate that the impacts of the project do not warrant the preparation of an EIR. However, the proponent needs to address the comments from DEP with respect to the proponent's existing floating dock configuration.

The remaining issues associated with the proposed maintenance dredging process, and sediment analysis can be resolved with the state permitting agencies as the project progresses into the permitting process.

January 22, 2004
DATE


Ellen Roy Herzfelder Secretary

Comments received:

01/12/04 Massachusetts Department of Environmental Protection - Boston

ENF# 13146
ERH/NCZ/ncz

DEP File Number



WPA Form 5 Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

SE42-1813
Watershed SOUTH COASTAL
Town MARSHFIELD
Applicant GR.HARBOR MARJNA

Applicant Information

From: **Marshfield Conservation Commission**

To GREEN HARBOR MARINA MARINA HARBOR II CORPORATION
Applicant Name Property Owner Name

Address: 239 Dike Road, Green Harbor, MA 02041 Address: P.O. Box 338, Green Harbor, MA 02041

This Order is issued to the applicant or representative as follows:

by hand delivery to applicant or representative on December 5, 2003 (date)

by certified mail, return receipt requested _____ (date)

The project site is located at: 239 DIKE ROAD, GREEN HARBOR, MA 02041 Assessors # M6-8-5a

and the property is recorded at the Registry of Deeds: Plymouth County, Book 6544 Page 96

or if registered land as Land Court Certificate # _____

The Notice of Intent for this project was filed on October 21, 2003 (date)

The public hearing was closed on November 5, 2003 (date)

This Order expires on December 5, 2006 (date). (Extension must be requested 30 days prior.)

Findings Findings pursuant to the Massachusetts Wetlands Protection Act:

Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the area in which work is proposed is significant to the following interests of the Wetlands Protection Act:

- | | | |
|---|--|--|
| <input type="checkbox"/> Public Water Supply | <input checked="" type="checkbox"/> Flood Control | <input checked="" type="checkbox"/> Storm Damage Prevention |
| <input type="checkbox"/> Private Water Supply | <input type="checkbox"/> Land Containing Shellfish | <input checked="" type="checkbox"/> Prevention of Pollution |
| <input type="checkbox"/> Groundwater Supply | <input checked="" type="checkbox"/> Fisheries | <input checked="" type="checkbox"/> Protection of Wildlife Habitat |

Furthermore, the Marshfield Conservation Commission hereby finds that the project, as proposed, is **Approved** subject to the following conditions which are necessary, in accordance with the performance standards set forth in the wetlands regulations, to protect those interests checked above. This Commission orders that all the work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.

General Conditions

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. This Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state or local statutes, ordinances, by-laws or regulations.



WPA Form 5 Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B Findings (cont.)

4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - (a) the work is a maintenance dredging project as provided for in the Act; or
 - (b) the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance, if this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. Any fill used in connection with this project shall be clean fill, containing no trash, refuse, rubbish or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles or parts of any of the foregoing.
7. No work shall be undertaken until all administrative appeal periods from this Order have elapsed or, if such an appeal has been filed, until all proceedings before the Department have been completed.
8. No work shall be undertaken until the Final Order has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is to be done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to commencement of the work.
9. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words, "Massachusetts Department of Environmental Protection", [or, "MA DEP"]
"File Number SE 42-1813."
10. Where the Department of Environmental Protection is requested to make a determination and to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before the Department.
11. Upon completion of the work described herein, the applicant shall forthwith request in writing in the form of a Request for Certificate of Compliance (WPA 8A) submitted to the Conservation Commission that a Certificate of Compliance be issued stating that the work has been satisfactorily completed.
12. The work shall conform to the following plans and special conditions:

Final Approved Plans:

Title Dated Signed and Stamped by:
Maintenance Dredging, Green Harbor River, Marshfield.
Application by Marina Harbor 11 Corporation, dated 8/8/03.
Signed and sealed by Michael Beshara, RPLS.

On File with:
Marshfield Conservation Commission

SPECIAL CONDITIONS:

13. Any changes to the plans identified in Condition #12 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
14. The Agent or members of the Conservation Commission and Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
15. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.



WPA Form 5 Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B Findings (cont.)

SPECIAL CONDITIONS:

- a. All work shall be done in accordance with final plans August 8, 2003. There shall be **no deviation from this plan** unless written approval from the Commission is obtained prior to implementing the changes desired.
- b. The Conservation Administrator will be the overseer of all work on this project for the Conservation Commission.
- c. The applicant shall be responsible for informing the contractor of the conditions of this Order and ensuring compliance.
- d. The Commission approves either method of dredging, mechanical or hydraulic to the design depth of -5 feet, MLW with allowance for a 1-foot overdredge. Either upland disposal or disposal at sea in an approved dredge disposal site is permitted.
- e. Dredging operations shall not occur during the spring herring run and shall not occur during the winter flounder spawning season or the months of February through May, inclusive.



WPA Form 5 Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B Findings (cont.) This Order is issued by the Marshfield Conservation Commission.

Signatures

Henry E. Lane
Linda Varraso
John Zimmer

Joan E. H. Kyler
Paul Halkiotis
Jean C. Stewart
Frederick Wasti

Joan E. H. Kyler, Chairman
Paul Halkiotis
Jean C. Stewart
Frederick Wasti

This Order must be signed by the majority of the Conservation Commission.

On this 5th day of November 2003 before me personally appeared the above persons to me known to be the person described in and who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed.

Notary Public: Kathleen D. Ramsey *Kathleen D. Ramsey* My Commission expires: 9/24/2004

C Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the town in which such land is located, are hereby notified of their right to request the appropriate Department of Environmental Protection Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Appendix E: Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, §40 and is inconsistent with the wetlands regulations (310 CMR 10.00).

D Recording Information

This Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information shall be submitted to the Marshfield Conservation Commission on the form below, which must be stamped by the Registry of Deeds.

Detach on dotted line and submit to the Marshfield Conservation Commission

To: Marshfield Conservation Commission

Please be advised that the Order of Conditions for the project at: 239 Dike Road, Marshfield, MA (location)

DEP File Number SE42-1813 has been recorded at the Plymouth Registry of Deeds

And has been noted in the chain of title of the affected property in Book _____ Page _____

In accordance with the Order of Conditions issued on _____ (date)

If recorded land, the instrument number which identifies this transaction is _____ (Instrument #)

If registered land, the document number which identifies this transaction is _____ (Document #)

Signature of Applicant _____ (S)

legged premises located at 13 Salt Meadow Way, Marshfield, Plymouth County, Massachusetts, all and singular the premises described in said mortgage.

TO WIT:

Property Address: 13 Salt Meadow Way, Marshfield, Massachusetts 02050

The land with the buildings thereon, situated on the north-easterly side of Salt Meadow Way, in Marshfield, Plymouth County, Massachusetts, being Lot 23 as shown on a plan entitled, "Salt Meadow Village, South River Street & Hayes Way Marshfield, Mass.", dated May 10, 1972, by Robert C. Bailey, Reg. Land Surveyor, which plan is recorded in Plymouth County Registry of Deeds as Plan No. 735 of 1972 in Plan Book 16, Page 813-814, bounded and described according to said plan as follows,

recorded with Plymouth County Registry of Deeds in Book 17694, Page 215.

These premises will be sold and conveyed subject to and with the benefit of all rights, rights of way, restrictions, easements, covenants, liens or claims in the nature of liens, improvements, public assessments, any and all unpaid taxes, tax titles, tax liens, water and sewer liens and any other municipal assessments or liens or existing encumbrances of record which are in force and are applicable, having priority over said mortgage, whether or not reference to such restrictions, easements, improvements, liens or encumbrances is made in the deed.

TERMS OF SALE:

A deposit of Five Thousand (\$5,000.00) Dollars by certified or bank check will be required to be paid by the purchaser at the time and place of sale. The balance is to be paid by certified or bank check at Harmon Law

REPUBLICAN

By its Attorneys,
HARMON LAW OFFICES,
P.C.
Allison West Dalton, Esquire
150 California Street
Newton, MA 02458
(617) 558-0500

AD#403286

(Marshfield Mariner 12/31, 1/7, 1/14/04)

**MAINTENANCE
DREDGING**

**LEGAL NOTICE
DEPARTMENT OF
ENVIRONMENTAL
PROTECTION**

**Joint 401 WQC and
Chapter 91 Public Notice**

**Notification Date: January 16,
2004**

Pursuant to 33 U.S.C. 1341 and M.G.L. c. 21 43, notice is given of a 401 Water Quality Certification (WQC) Application and M.G.L. Chapter 91, 310 CMR 9.00 Waterways Application by the

thirty-one (31) days of this notice to:

Department of Environmental Protection
Division of Wetlands and Waterways
1 Winter Street
Boston, MA 02108

Written comments on the Chapter 91 Dredge Permit must be sent within **fifteen (15) days of this notice to:**

Department of Environmental Protection
Wetlands and Waterways Program
20 Riverside Drive
Lakeville, MA 02347

Any group of ten persons, any aggrieved person, or any governmental body or private organization with a mandate to protect the environment who submits written comments may appeal the Department's Certification and Dredge Permit. Failure to submit written comments before the end of the

NOTICE

To all above information that Atlantic Dredging

IF YOU
OTHER
ATTORNEY
WRITING
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7:50 p.m. Moraine St., suspicious internet comments.
 9:55 p.m. Plain St. eastbound, erratic operation of motor vehicle.
 10:54 p.m. Dog Lane and Pleasant St., speeding motor vehicles.
TUESDAY, DEC. 23
 1:38 a.m. Tower Ave., well being check.
 2:53 a.m. Blue Heron St., summons served.
 7:01 a.m. Old Plain St., body found.
 7:12 a.m. Puritan Lane, missing son.
 11:49 a.m. Plain St., minor rear-end

4:32 p.m. Plain St., erratic operation of motor vehicle.
 4:50 p.m. Ocean St., animal call, dog hit by car.
 5:45 p.m. Highland Ave., ambulance call.
 6:23 p.m. Walnut St., stolen Christmas ornaments.
 8:04 p.m. Church St., cruiser hit deer.
 9:19 p.m. Main St., general complaint.
THURSDAY, DEC. 25
 12:16 a.m. 13th Road, missing person.
 12:50 a.m. Plain St., loud kids.

arrest of Stephen Vining, 51, 79 Donald Road, Marshfield, emergency 209A order.
 2:28 p.m. Careswell St., ambulance call.
 3:10 p.m. Pine and Forest Sts., paint ball incident.
 4:15 p.m. Wheelers Pit, dirt bikes in pit.
 6:38 p.m. Ferry and Waltham Sts., animal call.
 8:35 p.m. Plain St., ambulance call.
 7:39 p.m. Arrowhead area, suspicious motor vehicle.
 9:08 p.m. Frisbie Road, damage to lawn ornaments.

Friday, one hour after 9 a.m. daily Mass.
 St. Ann's crafters meet on Tuesday mornings in the parish center. Come join us, have a social morning and help make crafts at the same time — come to the hall at 9:30 a.m. on Tuesdays. If you are praying for a special intention and would like others to pray for your intention, you can call

LEGAL NOTICES

**DAVIS
 LEGAL NOTICE
 NOTICE OF
 MORTGAGEE'S SALE
 OF REAL ESTATE**

By virtue and in execution of the Power of Sale contained in a certain mortgage given by Kenneth G. Davis and Kathleen Grable Davis to Old Colony Mortgage Corporation, dated July 23, 1999 and recorded with the Plymouth County Registry of Deeds at Book 17694, Page 216, of which mortgage Mortgage Electronic Registration Systems, Inc. is the present holder, for breach of the conditions of said mortgage and for the purpose of foreclosing, the same will be sold at Public Auction at 11:00 a.m. on January 22, 2004, on the mortgaged premises located at 13 Salt Meadow Way, Marshfield, Plymouth County, Massachusetts, all and singular the premises described in said mortgage,

TO WIT:

**Property
 Address: 13 Salt Meadow
 Way, Marshfield,
 Massachusetts 02050**

The land with the buildings thereon, situated on the northeasterly side of Salt Meadow Way, in Marshfield, Plymouth County, Massachusetts, being Lot 23 as shown on a plan entitled, "Salt Meadow Village, South River Street & Hayes Way Marshfield, Mass.", dated May 10, 1972, by Robert C. Bailey, Reg. Land Surveyor, which plan is recorded in Plymouth County Registry of Deeds as Plan No. 735 of 1972 in Plan Book 16, Page 813-814, bounded and described according to said plan as follows,

SOUTHWESTERLY by the Northeasterly sideline of said Salt Meadow Way measuring on the curving line thereof, 119.37 feet;
NORTHWESTERLY by land of Alfonso Realty trust, 146.50 feet;

NORTHEASTERLY by land of Estate of Clara C. Jordon, 190.00 feet; and

SOUTHEASTERLY by lot 22, 187.58 feet.

Said Lot containing 21,479 square feet according to said plan.

A deed from Leo J. McDonough to be recorded.

For mortgagors' title see deed recorded with Plymouth County Registry of Deeds in Book 17694, Page 215.

These premises will be sold and conveyed subject to and with the benefit of all rights, rights of way, restrictions, easements, covenants, liens or claims in the nature of liens, improvements, public assessments, any and all unpaid taxes, tax titles, tax liens, water and sewer liens and any other municipal assessments or liens or existing encumbrances of record which are in force and are applicable, having priority over said mortgage, whether or not reference to such restrictions, easements, improvements, liens or encumbrances is made in the deed.

TERMS OF SALE:

A deposit of Five Thousand (\$5,000.00) Dollars by certified or bank check will be required to be paid by the purchaser at the time and place of sale. The balance is to be paid by certified or bank check at Harmon Law

Offices, P.C., 150 California Street, Newton, Massachusetts 02458, or by mail to P.O. Box 610389, Newton Highlands, Massachusetts 02461-0389, within thirty (30) days from the date of sale. Deed will be provided to purchaser for recording upon receipt in full of the purchase price. The description of the premises contained in said mortgage shall control in the event of an error in this publication.

Other terms, if any, to be announced at the sale.

**MORTGAGE
 ELECTRONIC
 REGISTRATION
 SYSTEMS, INC.**
 Present holder of
 said mortgage

By its Attorneys,
HARMON LAW OFFICES,
 P.C.
 Allison West Dalton, Esquire
 150 California Street
 Newton, MA 02458
 (617) 558-0500

AD#403286
 (Marshfield Mariner 12/31, 1/7, 1/14/04)

**MAINTENANCE
 DREDGING**

**LEGAL NOTICE
 DEPARTMENT OF
 ENVIRONMENTAL
 PROTECTION
 Joint 401 WQC and
 Chapter 91 Public Notice**

**Notification Date: January 16,
 2004**

Pursuant to 33 U.S.C. 1341 and M.G.L. c. 21 43, notice is given of a 401 Water Quality Certification (WQC) Application and M.G.L. Chapter 91, 310 CMR 9.00 Waterways Application by the

Marina Harbor II Corp., d/b/a Green Harbor Marina, 239 Dike Road (Rte. 139), Green Harbor, MA, to perform maintenance dredging of approximately 15,100 cubic yards of sediments from the marina berthing basin, in the municipality of Marshfield, in and over flowed tidelands of Green Harbor. The proposed project has been determined to be water-dependent pursuant to 310 CMR 9.12(2)(a). Additional information about this project may be obtained from Marina Harbor II Corporation, P.O. Box 338, Green Harbor, MA 02041, Contact Person: Daniel Vigneau, Treasurer, (781) 837-1181.

Written comments on the 401 WQC must be sent within **twenty-one (21) days of this notice to:**

Department of Environmental Protection
 Division of Wetlands and Waterways
 1 Winter Street
 Boston, MA 02108

Written comments on the Chapter 91 Dredge Permit must be sent within **fifteen (15) days of this notice to:**

Department of Environmental Protection
 Wetlands and Waterways Program
 20 Riverside Drive
 Lakeville, MA 02347

Any group of ten persons, any aggrieved person, or any governmental body or private organization with a mandate to protect the environment who submits written comments may appeal the Department's Certification and Dredge Permit. Failure to submit written comments before the end of the

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AL NOTICES

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Wetlands and Waterways Program
20 Riverside Drive
Lakeville, MA 02347

Any group of ten persons, any aggrieved person, or any governmental body or private organization with a mandate to protect the environment who submits written comments may appeal the Department's Certification and Dredge Permit. Failure to submit written comments before the end of the

public comment period may result in the waiver of any right to an adjudicatory hearing.

AD#409907
(Marshfield Mariner 1/7/04)

**MCCARTHY ESTATE
LEGAL NOTICE
Commonwealth of
Massachusetts
The Trial Court
Probate and Family
Court Department**

**PLYMOUTH Division
Docket No. 03P2125-AD1**

In the Estate of LEO J. MCCARTHY Also Known As LEO JOHN MCCARTHY Late of MARSHFIELD In the County of PLYMOUTH Date of Death October 15, 2003

**NOTICE OF PETITION
FOR APPOINTMENT
OF ADMINISTRATOR**

To all persons interested in the above captioned estate, a petition has been presented praying that ANN M. MCCARTHY of NATICK in the County of MIDDLESEX be appointed administrator of said estate to serve without surety.

IF YOU DESIRE TO OBJECT THERETO, YOU OR YOUR ATTORNEY MUST FILE A WRITTEN APPEARANCE IN SAID COURT AT PLYMOUTH ON OR BEFORE TEN O'CLOCK IN THE FORENOON (10:00 AM) ON JANUARY 28, 2004.

WITNESS, HON. CATHERINE P. SABAITIS, ESQUIRE, First Justice of said Court at PLYMOUTH this day, December 30, 2003.

Robert E. McCarthy
Register of Probate

Bookstore hours: Tuesday through Friday, 10 a.m.-4 p.m.

AD#411045
(Marshfield Mariner 1/7/04)

**PARAMEDIC
AMBULANCE BID
LEGAL NOTICE
TOWN OF MARSHFIELD
EMERGENCY
MEDICAL VEHICLE**

Sealed bids will be received and publicly opened and read on **Monday January 26, 2004** at 10:00 a.m. in Hearing room 3, Town Hall, Marshfield, Massachusetts 02050 for **One Class I, Type I AMBULANCE and Equipment.**

Specifications may be obtained from the Office of Fire Chief between the hours of 9:00 a.m. and 4:00 p.m. Monday to Friday.

The Town Administrator reserves the right to accept or reject any bid, to waive any informalities, to divide the award and to accept any bid deemed in the best interest of the Town of Marshfield.

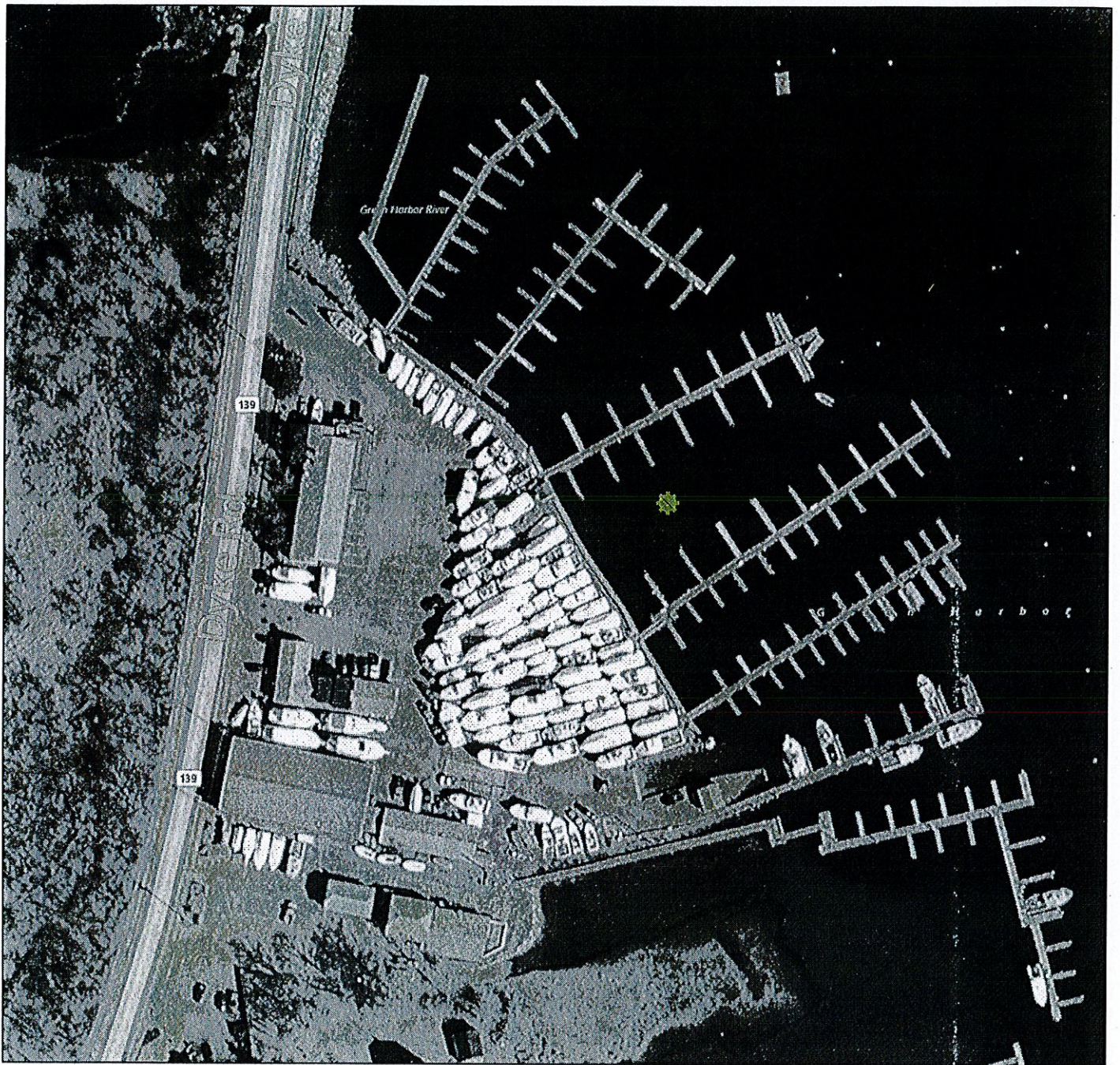
Bids should be returned to Board of Selectmen 870 Moraine Street Marshfield, MA 02050 and be plainly marked: **Paramedic Ambulance Bid**

John Clifford
Town Administrator

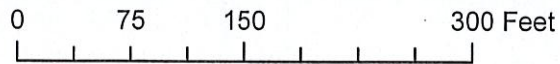
AD#411047
(Marshfield Mariner 1/7/04)

**To place your legal notice
call Eve Connell
at 781-433-7959 or fax
781-453-6650**





Permit No. 11441



*"For Intra-Agency Policy
Deliberations Only"*

*All data subject to revision
2008/2009 MassGIS Color Orthos*

JUNE.2012 AB

Legend

- * CH91_CF
- CH91_UC



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST REGIONAL OFFICE
20 RIVERSIDE DRIVE, LAKEVILLE, MA 02347 508-946-2700

MITT ROMNEY
Governor

KERRY HEALEY
Lieutenant Governor

STEPHEN R. PRITCHARD
Secretary

ROBERT W. GOLLEDGE, Jr.
Commissioner

AUG 02 2006

Marina Harbor II Corporation
c/o Daniel Vigneau, Treasurer
P.O. Box 338
Green Harbor, MA 02041

RE: Waterways Application No. W03-0934 / Permit No. 11441
Green Harbor River, Marshfield, Plymouth County

Dear Sir or Madam:

Following an in-depth review of the referenced file, the Department of Environmental Protection has approved the attached permit authorizing you to perform maintenance dredging pursuant to M.G.L. Chapter 91 and Regulations 310 CMR 9.00.

This permit decision may be appealed by the Permittee within twenty-one (21) days of the date of permit issuance, pursuant to 310 CMR 9.17(1)(a) and 9.17(2).

Notice of Appeal Rights:

A) Appeal Rights and Time Limits

The following persons shall have the right to an adjudicatory hearing concerning this decision by the Department to grant or deny a license or permit: (a) an applicant who has demonstrated property rights in the lands in question, or which is a public agency; (b) any person aggrieved by the decision of the Department to grant a license or permit who has submitted written comments within the public comment period; (c) ten (10) residents of the Commonwealth, pursuant to M.G.L. c.30A, §10A, who have submitted written comments within the public comment period; (d) the municipal official in the affected municipality who has submitted written comments within the public comment period; (e) CZM, for any project in the coastal zone, if it has filed a

notice of participation within the public comment period; and (f) DCR, for any project in an Ocean Sanctuary, if it has filed a notice of participation within the public comment period. To request an adjudicatory hearing, a Notice of Claim must be made in writing and sent by certified mail or hand delivery to the Department with the appropriate filing fee specified within 310 CMR 4.10 along with a DEP Fee Transmittal Form, within twenty-one (21) days of the date of issuance of this decision and addressed to:

Case Administrator
 Department of Environmental Protection
 One Winter Street, 2nd Floor
 Boston, MA 02108.

A copy of the Notice of Claim must be sent at the same time by certified mail or hand delivery to the applicant, the municipal official of the city or town where the project is located, and the issuing office of the DEP at:

Department of Environmental Protection
 Wetlands and Waterways Program
 20 Riverside Drive
 Lakeville, MA 02347

B) Contents of Hearing Request

Under 310 CMR 1.01(6)(b), the Notice of Claim must state clearly and concisely the facts that are the grounds for the request and the relief sought. Additionally, the request must state why the decision is not consistent with applicable laws and regulations.

Pursuant to 310 CMR 9.17(3), any Notice of Claim for an adjudicatory hearing must include the following information:

- (a) the DEP Waterways Application File Number;
- (b) the complete name, address, fax number and telephone number of the applicant;
- (c) the address of the project;
- (d) the complete name, address, fax number, and telephone number of the party filing the request and, if represented by counsel, the name, address, fax number, and phone number of the attorney;
- (e) if claiming to be a person aggrieved, the specific facts that demonstrate that the party satisfies the definition of "person aggrieved" found in 310 CMR 9.02;
- (f) a clear statement that a formal adjudicatory hearing is being requested;
- (g) a clear statement of the facts which are the grounds for the proceedings, the specific objections to the DEP's written decision, and the relief sought through the adjudicatory hearing, including specifically the changes desired in the final written decision; and
- (h) a statement that a copy of the request has been sent to: the applicant and the municipal official of the city or town where the project is located.

C) Filing Fee and Address

A copy of the Notice of Claim along with a DEP Fee Transmittal Form and a valid check payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100) must be mailed to:

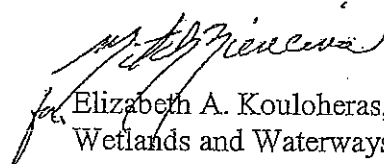
Commonwealth of Massachusetts
Department of Environmental Protection
Commonwealth Master Lockbox
P.O. Box 4062
Boston, Massachusetts 02211

The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or is granted a waiver. The filing fee is not required if the appellant is a city or town (or municipal agency), county, or district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department may waive the adjudicatory hearing filing fee pursuant to 310 CMR 4.06(2) for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file an affidavit setting forth the facts believed to support the claim of undue financial hardship together with the hearing request as provided above.

Please note that any unauthorized project change shall render it void. Therefore, it is recommended that you contact the Department prior to performing any alterations or use modifications for review and, if necessary, approval pursuant to M.G.L. Chapter 91.

If you have any questions concerning this permit, please contact David Hill at (508) 946-2730.

Very truly yours,


Elizabeth A. Kouloheras, Chief
Wetlands and Waterways Program

Enclosure

cc: w/enc. Waterways Regulation Program, DEP, Boston
Office of Coastal Zone Management
Marshfield Harbormaster
Laurie Futch

**SUPPLEMENTAL INFORMATION NOTIFICATION LIST
ENVIRONMENTAL NOTIFICATION FORM**

**MARINA HARBOR II CORPORATION
d/b/a The Green Harbor Marina
239 Dike Road Rte 139
Green Harbor, MA 02041**

Sylvia Hobbs
MPH DEMS OEMA
2 Boylston St., 3rd Fl.
Boston, MA 02116

ENVIRONMENTAL NOTIFICATION FORM, NOTIFICATION LIST

MARINA HARBOR II CORPORATION
d/b/a The Green Harbor Marina
239 Dike Road Rte 139
Green Harbor, MA 02041

Secretary Ellen Roy Herzfelder EOEA, MEPA Section 251 Causeway Street Boston, MA 02114	Department of Environmental Protection, Commissioner's Office One Winter Street Boston, MA 02108
Mass. Historical Commission Mass. Archives Building 220 Morrissey Boulevard Boston, MA 02125	Department of Environmental Protection SERO, MEPA Coordinator 20 Riverside Drive Lakeville, MA 02347
EOEA Attn. Karl Honkonen Water Policy Section 251 Causeway Street Boston, MA 02114	Department of Environmental Protection, Attn. Yvonne Unger Wetlands & Waterways Program One Winter Street Boston, MA 02108
Division of Marine Fisheries Attn. Environmental Reviewer 50 A Portside Drive Pocasset, MA 02559	Coastal Zone Management Attn. Project Review Coordinator 251 Causeway Street, Suit 500 Boston, MA 02114
EOTC Attn. Environmental Reviewer 10 Park Plaza, Room 3510 Boston, MA 02116-3969	Metropolitan Area Planning Council 60 Temple Place, 6th Floor Boston, MA 02111
Mass. Highway Department District 5 Office, Box 111 Attn. MEPA Coordinator 1000 County Way Taunton, MA 02780	Mass. Highway Department Public/Private Development Unit 10 Park Plaza, Room 3510 Boston, MA 02116
Town of Marshfield Board of Selectmen 870 Moraine Street Marshfield, MA 02050	Mass. Aeronautics Commission Attn. MEPA Coordinator 10 Park Plaza, Room 6620 Boston, MA 02116
Town of Marshfield Conservation Commission 870 Moraine Street Marshfield, MA 02050	Town of Marshfield Planning Board 870 Moraine Street Marshfield, MA 02050
Town of Marshfield Board of Health 870 Moraine Street Marshfield, MA 02050	Comm. of Mass. DEP, Wetlands & Waterways Section 20 Riverside Drive Lakeville, MA 02347

January 2, 2004

Re: Maintenance Dredging
Green Harbor Marina
Marshfield
EOEA No. 13146

Dear Sir or Madam:

On or about November 15, 2003, your Agency was notified under the provisions of 301 CMR 11.16, that we were filing an Environmental Notification Form, (ENF) regarding our intent to perform maintenance dredging at the Green Harbor Marina, in the Green Harbor River, in the Green Harbor Section of Marshfield.

On December 10, 2003, a MEPA Scoping Session was held to review the project. Resulting from that meeting, in order to provide certain supplemental information, we requested an extension of the Comment Period Time from December 16, 2003 to January 12, 2004.

For your review, we are enclosing a copy of the supplemental information requested to be addressed during the meeting.

Very truly yours,



Daniel Vigneau, Treasurer
Marina Harbor II Corporation
d/b/a Green Harbor Marina
239 Dike Rd. P.O. Box 338
Green Harbor, MA 02041
(781) 837-1181

Enclosures

MEMORANDUM

TO: Sharon Stone, SERO MEPA Coordinator

FROM: David Hill, for the Wetlands and Waterways Program

DATE: December 9, 2003

RE: ENF, EOE # 13146 – Marshfield – Green Harbor Marina
Maintenance Dredging

The following comment(s) are based on the review of the ENF.

- In the Department's review of the proposed dredging plans, it was noted that there are several deviations in the existing floating dock configuration as compared to the locations shown on the most recent Chapter 91 License, No. 497, issued in 1978. The Department recommends that these modifications be addressed in a new license application that could include the dredging component of the project and a delineated zone of reconfiguration in accordance with the Waterways Regulations at 310 CMR 9.39. Otherwise, the proponent shall return the floating docks to the size and location approved under License No. 497.



THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
OFFICE OF COASTAL ZONE MANAGEMENT
251 Causeway Street, Suite 900, Boston, MA 02114-2136
(617) 626-1200 fax: (617) 626-1240

EK → D.H.
FYI



MEMORANDUM

TO: Ellen Roy Herzfelder, Secretary, EOE
ATTN: Nicholas Zavolas, MEPA Unit
FROM: Tom Skinner, Director, CZM
DATE: January 20, 2004
RE: EOE# 13146 – Green Harbor Marina Maintenance Dredging Project;
Marshfield

The Massachusetts Office of Coastal Zone Management (CZM) has completed its review of the above-referenced Environmental Notification Form (ENF), noticed in the Environmental Monitor dated November 26, 2003. Due to questions raised at the Massachusetts Environmental Policy Act (MEPA) site visit on December 10, 2003, the proponent requested and received an extension of the MEPA review process in order to provide additional project information. Based on our review of the ENF, participation in the site visit, and review of supplemental information provided by the proponent, we recommend the issues identified below be addressed through a Single or Limited Environmental Impact Report (EIR) or through close coordination with agency representatives through the permitting process.

Project Description

The proposed project involves maintenance dredging of approximately 4.1 acres of land under the water to an elevation of -5 mean low water (MLW), with a one foot over-dredge. Dredge volumes will be 8,500 cy at -5 MLW and 15,100 cy including the over-dredge. Several dewatering and disposal options were identified in the proposal. If the project is to be piggy-backed with a larger town-sponsored harbor dredging project, material will be removed using a hydraulic dredge and dewatered at the Dike Road Dewatering Site (Site #1), owned by the proponent, or the Town of Marshfield Dewatering Site (Site #2). After dewatering, the material will be taken off-site by Durod Ltd. for final disposal. Alternatively, if the project is not piggy-backed with the municipal project, the proponent anticipates mechanical dredging of the project area with disposal of material at the Cape Cod Disposal Site.



Project Comments

Dike Road Dewatering Site #1

As described at the MEPA site visit, the Dike Road Dewatering Site (#1) consists of a low-lying bermed area adjacent to *Spartina* wetlands. Supplemental material provided by the proponent indicates that mean high water (MHW) at the project area is elevation 9.7 feet, the elevation of the bermed area is approximately 12.0, and the FEMA flood elevation is at an elevation of 15.8 (all elevations are from MLW). We are concerned that adjacent wetlands and water quality could be impacted should an astronomical or storm high tide event overtop the berm while dewatering or storage of dredged material is taking place. The potential for overtopping of the Dike Road dewatering site should be considered when evaluating the suitability of this site. A more detailed delineation of adjacent wetland resources may help to determine the potential for impact should dredged material be exported from the site by overtopping tide waters. In a letter to the Department of Environmental Protection (DEP), dated January 2, 2004, the proponent indicated that, should Site #1 be selected for use, that precautions to lessen storm damage, including closing the dewatering lagoon, removing inlet and outlet pipes, and increased siltation fencing, would be utilized. Our office would work with DEP to address these issues, should the proponent wish to pursue permitting of this option.

Supplemental materials provided indicate that an outlet weir consisting of a sluice box incorporating removable stop logs and outlet pipe will be used at the dewatering site. Preliminary sediment sample data from the project area indicates that approximately 30% of the dredged material is composed of silt and clay. We are concerned that the sluice box described in the plans will not be adequate to remove the high percentage of fine material described in the preliminary sample results and the effluent from the dewatering process may negatively impact water quality. A more adequate sediment sampling plan, as described by the Army Corps of Engineers, should be used to characterize the sediment and, based on the results of that sampling plan, the proponent should work with agency representatives to determine the most appropriate mechanism to protect water quality during the dewatering process.

The applicant also indicates that, due to the dewatering and storage volume limitations of Site #1, material will have to be removed several times during the project in order to provide adequate receiving volume for the ongoing dredging process. Dredged material with a 30% silt and clay component, hydraulically removed, may require extended settling time for the fine material to drop out of suspension. Therefore, the proponent should ensure that the receiving volume of Site #1 is adequate for the project based on anticipated dredge volumes using a hydraulic dredge.

Dewatering Site #2

As mentioned above, the proponent has identified the Town of Marshfield Dewatering Site (Site #2) located on Town Pier Road as a potential dewatering location for dredged material. At present, the Town is considering a larger municipally sponsored dredging project. In order for this location to be a viable dewatering site, the proponent will need to ensure that adequate volume exists to accommodate both projects. If sufficient volume is not available, or the

potential for sequencing dewatering operations proves prohibitive, an alternative plan will have to be considered.

Supplemental materials provided indicate that, as with Dewatering Site #1, an outlet weir consisting of a sluice box incorporating removable stop logs and outlet pipe will be used at this dewatering site as well. Our comments regarding the ability of this configuration to adequately protect receiving water quality apply to this site.

Sediment Characterization

The ENF provided some preliminary information regarding the physical and chemical characteristics of the dredged material. However, it is our understanding that individual sediment samples had been composited into a single sample and that the holding times on several analyses had been exceeded. As such, the Army Corps of Engineers has worked with the proponent to develop a sediment sampling plan for Green Harbor Marina. That plan, and any modifications to that plan requested by DEP, should be used to adequately describe the physical and chemical characteristics of the material in order to inform dredge and disposal options.

Material Disposal

Supplemental material provided by the proponent indicates that, once the dredged material has been adequately dewatered, it will be removed from the dewatering area by Durod Ltd., which will recycle the dredged material at its facility on Clay Pit Road in Marshfield. In a letter to Durod Ltd., DEP states that the material to be recycled is limited to clean asphalt, brick, and concrete only, and that no other construction and demolition material or other debris may be accepted or processed at the site without additional approvals from DEP. From this letter, it is unclear whether Durod Ltd. is permitted to perform the work described. The proponent and Durod Ltd. should work with DEP to determine, based on the physical and chemical characteristics of the dredged material, the applicability or provisions for a beneficial use determination for the dredged material. The proponent and Durod Ltd. should also work with DEP to ensure that Durod Ltd. has the required approvals to perform the work described.

Marine Resources

It is our understanding that the project area is spawning habitat for winter flounder and adjacent to an anadromous fish run. If this is the case, time-of-year restrictions for dredging will need to be considered as part of the permit process.

The proposed project may be subject to CZM federal consistency review, in which case the project must be found to be consistent with CZM's enforceable program policies. For further information on this process, please contact Jane W. Mead, Project Review Coordinator, at 617-626-1219 or visit the CZM web site at www.state.ma.us/czm/fcr.htm.

TWS/jdb

cc:

Norm Farris

U.S. Army Corps of Engineers

Elizabeth Kouloheras, Section Chief

Southeast Regional Office, MA DEP

Ben Lynch, Acting Section Chief

Waterways Program, MA DEP

Yvonne Unger

Division of Wetlands and Waterways, MA DEP

Vincent Malkoski

MA Division of Marine Fisheries

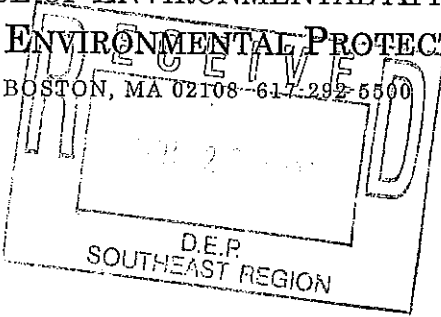
Jason D. Burtner,

CZM South Shore Regional Coordinator



COMMONWEALTH OF MASSACHUSETTS
 EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 ONE WINTER STREET, BOSTON, MA 02108-617-292-5500

DH



MITT ROMNEY
 Governor

KERRY HEALEY
 Lieutenant Governor

ELLEN ROY HERZFELDER
 Secretary

ROBERT W. GOLLEDGE, Jr.
 Commissioner

April 20, 2005

Daniel Vigneau
 Green Harbor Marina
 P.O. Box 338
 Green Harbor, MA 02041

Re: **401 WATER QUALITY CERTIFICATION**
 Application for BRP WW 07, Major project dredging

At: Green Harbor Marina, Green Harbor River, MARSHFIELD

Transmittal No: W04437
 ACoE Application No: 2004-970
 Wetlands File No: SE42-1813

Dear Mr. Vigneau:

The Department has reviewed your application for Water Quality Certification, as referenced above. In accordance with the provisions of Section 401 of the Federal Clean Water Act as amended (33 U.S.C. §1251 et seq.), MGL c.21, §§ 26-53, and 314 CMR 9.00, it has been determined there is reasonable assurance the project or activity will be conducted in a manner which will not violate applicable water quality standards (314 CMR 4.00) and other applicable requirements of state law.

The waters of Green Harbor are designated in the Massachusetts Surface Water Quality Standards as Class SA Waters. Such waters are intended "as excellent habitat for fish, other aquatic life and wildlife and for primary and secondary contact recreation." Anti-degradation provisions of these Standards require that "existing uses and the level of water quality necessary to protect the existing uses shall be maintained and protected."

Proposed project: The project entails maintenance dredging of the 4.1 acre marina basin to restore depths of -5 ft Mean Low Water with a one-foot overdredge allowance. Approximately 8500 yd³ of sediment will be dredged mechanically. The sediment will be placed into barges, which will transport the material to Cape Cod Bay Disposal Site (CCDS), where it will be dumped. The U.S. Army Corps of Engineers approved the disposal of the sediment at CCDS in permit Number 2004-970, issued on October 8, 2004.

The Department received no comments during the 21-day public comment period for this application, which began January 7, 2004.

Section 61 Findings: Pursuant to M.G. L. Chapter 30, Sections 61 to 62H including (M.E.P.A.) this project was reviewed as EOEA No 13146 and the Secretary's Certificate, issued on January 22, 2004, indicated that preparation of an Environmental Impact Report was not required.

Therefore, based on information currently in the record, the Department grants a 401 Water Quality Certification for this project subject to the following conditions to maintain water quality, to minimize impact on waters and wetlands, and to ensure compliance with appropriate state law:

1. The Contractor shall take all steps necessary to assure that the proposed activities will be conducted in a manner that will avoid violations of the anti-degradation provisions of Massachusetts Surface Water Quality Standards that protect all waters, including wetlands.
2. Prior to the start of in-water work, the Department shall be notified of any proposed change(s) in plans that may affect waters or wetlands. The Department will determine whether the change(s) require a revision to this Certification.
3. Work in waters and wetlands shall conform substantially to plans submitted in application to this Department: six sheets, signed and stamped by Michael L. Beshara, dated August 2003.
4. The Department shall be notified, attention Yvonne Unger 617-292-5893, one week prior to the start of in-water work so that Department staff may inspect the work for compliance with the terms and conditions of this Certification.
5. Sediment shall be disposed of at Cape Cod Bay Disposal Area as per the following:
 - a. At least ten working days in advance of the start date, the First Coast Guard District, Aids to Navigation Office, 617-223-8356, shall be notified of the location and estimated duration of the dredging and disposal operations.
 - b. Prior to disposal, the Department of Environmental Management, Office of Waterways, 349 Lincoln Street, Building 45, Hingham, MA 02043 shall be notified as to the anticipated start date for disposal of dredged material at the CCDS.
 - c. Every discharge of dredged material at the disposal site shall be witnessed by an onboard inspector who has been trained by, and who holds a current certification from, the New England District of the Corps of Engineers. The disposal inspector shall be contracted and paid for by the permittee. A list of currently certified inspectors can be obtained from the New England District Regulatory Division at 978-318-8292.
 - d. The permittee shall ensure that a separate Corps of Engineers disposal inspection report (scow log) is fully completed by the inspector for every trip to the disposal site and that this report is received by the Corps' New England District within one week of the trip date. The Regulatory Division telefax number is 978-318-8303. The original of this report must be mailed to: U.S. Army Corps of Engineers, Regulatory Division, Policy Analysis and Technical Support Branch, 696 Virginia Road, Concord, MA 01742-2751. For each dredging season during which work is performed the permittee must notify the

Corps upon completion of dredging for the season by completing and submitting the form that the Corps will supply for this purpose when disposal-point coordinates are specified. A copy disposal inspection report (scow log) shall be Massachusetts Department of Environmental Management, Office of Waterways, 349 Lincoln Street, Building 45, Hingham, MA 02043.

- e. Except when directed otherwise by the Corps, all disposal of dredged material shall adhere to the following: The permittee shall release the dredged material at a specified buoy or set of coordinates within the disposal site. All disposal shall occur at the buoy or specified coordinates with the scow at a complete halt. This requirement must be followed except when doing so will create unsafe conditions because of weather or sea state, in which case disposal within **100** feet of the buoy or specified coordinates with the scow moving only fast enough to maintain safe control (generally less than one knot) is permitted. Disposal is not permitted if these requirements cannot be met due to weather or sea conditions. In that regard, special attention needs to be given to predicted conditions prior to departing for the disposal site.
- f. Disposal of dredged material at the Cape Cod Disposal Site (CCDS) shall not occur between January 1 and May 15 in order to protect right whales.
- g. A marine mammal/turtle observer approved by National Marine Fisheries Service (NMFS) shall be present on the towing vessel for all disposal activities. The observer may be the dredged material disposal inspector provided that he or she is also approved by NMFS.
- h. In the event that marine mammals or turtles are sighted within 1,500 feet of the marker buoy, the tug captain and observer shall observe the following disposal procedure:
 - i. If marine mammals or turtles are sighted within 1,500 feet of the marker buoy, note species, number of animals, direction of travel, and behavior (feeding, in transit, etc.).
 - ii. If the animals are within 1,500 feet of the marker buoy and appear to be moving away from the buoy wait until they have cleared the buoy by 1,500 feet and then proceed with disposal at the buoy.
 - iii. If the animals are within 1,500 feet of the marker buoy and appear to be remaining stationary, or are outside 1,500 feet but appear to be moving towards the buoy, proceed to the center of the CCDS and discharge the material at the position specified by the Water Quality Certification.
- i. If the disposal occurs in darkness or otherwise limited visibility, the tug shall employ its searchlight for the benefit of the observer beginning 2,000 feet from the disposal buoy.
- j. In all cases, no disposal shall occur within 1,500 feet of a sighted marine mammal or turtle.
- k. The observer shall document each trip using the sighting log form supplied by the Corps of Engineers. The permittee must ensure that these sighting log forms are fully completed and received by the Corps' New England District within one week of the trip date. Address the submittal to: U.S. Army Corps of Engineers, New England District,

Regulatory Division, Policy Analysis and Technical Support Branch, 696 Virginia Road, Concord, MA 01742-2751. The phone number is 978-318-8292, and the FAX number is 978-318-8303. A copy of the sighting log form shall also be sent to Massachusetts Department of Environmental Management, Office of Waterways, 349 Lincoln Street, Building 45, Hingham, MA 02043.

6. No future maintenance dredging is authorized by this Certification because of the need to obtain new approvals for dredged material disposal. Work shall be completed within three years from the date of this Certification.
7. Dredging in accord with this Certification may begin following the 21-day appeal period and once all other permits have been received.
8. Within 30 days of the completion of the initial dredging, a bathymetric survey of the marina basin, depicting post-dredge conditions, shall be sent to the Department.
9. In order to protect spawning winter flounder, American shad and rainbow smelt migrations no dredging shall occur between February 1st and July 31st of any year.

The applicant, or their contractor, shall make every feasible effort to complete the project within the permitted timeframe. Should the applicant, or their contractor, fail to complete the project and wish to request an amendment to the Certification for incursion into the no-dredge period, the written request shall be received by the Department by January 15th. The following information shall be included in the request:

- a. project location and transmittal number,
- b. the date on which dredging started,
- c. the number of days and hours per day the dredge operated,
- d. expected daily average production rate and the actual daily average production rate,
- e. an explanation of why the project failed to remain on schedule,
- f. an account of efforts made to get the project back on schedule,
- g. a plan depicting the areas that remain to be dredged,
- h. the number of cubic yards that remain to be dredged,
- i. an accurate estimate of the number of days required to complete the project,
- j. an evaluation of the impact of continued dredging on the species of concern,
- k. a description of any efforts that will be made to minimize the impacts of the project on the species of concern, and
- l. a realistic assessment of any societal/financial effects of a denial of permission to continue dredging.

The Department will share the information with other resource agencies and a decision to grant or deny the amendment will be made by February 1st. Requests for amendment received after January 15th will be considered at the Department's discretion.

This certification does not relieve the applicant of the obligation to comply with other applicable state or federal statutes or regulations. Any changes made to the project as described in the previously submitted Notice of Intent, 401 Water Quality Certification application, or supplemental documents will require further notification to the Department.

Certain persons shall have a right to request an adjudicatory hearing concerning certifications by the Department when an application is required:

- a. the applicant or property owner;
- b. any person aggrieved by the decision who has submitted written comments during the public comment period;
- c. any ten (10) persons of the Commonwealth pursuant to M.G.L. c.30A where a group member has submitted written comments during the public comment period; or
- d. any governmental body or private organization with a mandate to protect the environment that has submitted written comments during the public comment period.

Any person aggrieved, any ten (10) persons of the Commonwealth, or a governmental body or private organization with a mandate to protect the environment may appeal without having submitted written comments during the public comment period only when the claim is based on new substantive issues arising from material changes to the scope or impact of the activity and not apparent at the time of public notice. To request an adjudicatory hearing pursuant to M.G.L. c.30A, § 10, a Notice of Claim must be made in writing, provided that the request is made by certified mail or hand delivery to the Department, with the appropriate filing fee specified within 310 CMR 4.10 along with a DEP Fee Transmittal Form within twenty-one (21) days from the date of issuance of this Certificate, and addressed to:

Case Administrator
Department of Environmental Protection
One Winter Street, 2nd Floor
Boston, MA 02108.

A copy of the request shall at the same time be sent by certified mail or hand delivery to the issuing office of the Wetlands and Waterways Program at:

Department of Environmental Protection
One Winter Street, 6th Floor
Boston, MA 02108.

A Notice of Claim for Adjudicatory Hearing shall comply with the Department's Rules for Adjudicatory Proceedings, 310 CMR 1.01(6), and shall contain the following information pursuant to 310 CMR 9.10(3):

- a. the 401 Certification Transmittal Number and DEP Wetlands Protection Act File Number;
- b. the complete name of the applicant and address of the project;
- c. the complete name, address, and fax and telephone numbers of the party filing the request, and, if represented by counsel or other representative, the name, fax and telephone numbers, and address of the attorney;
- d. if claiming to be a party aggrieved, the specific facts that demonstrate that the party satisfies the definition of "aggrieved person" found at 314 CMR 9.02;
- e. a clear and concise statement that an adjudicatory hearing is being requested;
- f. a clear and concise statement of (1) the facts which are grounds for the proceedings, (2) the objections to this Certificate, including specifically the manner in which it is alleged to be inconsistent with the Department's Water Quality Regulations, 314 CMR 9.00, and (3) the relief sought through the adjudicatory hearing, including specifically the changes desired in the final written Certification; and
- g. a statement that a copy of the request has been sent by certified mail or hand delivery to the applicant, the owner (if different from the applicant), the conservation commission of the city or town where the activity will occur, the Department of Environmental

Management (when the certificate concerns projects in Areas of Critical Environmental Concern), the public or private water supplier where the project is located (when the certificate concerns projects in Outstanding Resource Waters), and any other entity with responsibility for the resource where the project is located.

The hearing request along with a DEP Fee Transmittal Form and a valid check or money order payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100) must be mailed to:

Commonwealth of Massachusetts
Department of Environmental Protection
Commonwealth Master Lockbox
P.O. Box 4062
Boston, MA 02211

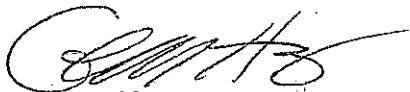
The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver. The filing fee is not required if the appellant is a city or town (or municipal agency), county, or district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department may waive the adjudicatory-hearing filing fee pursuant to 310 CMR 4.06(2) for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file an affidavit setting forth the facts believed to support the claim of undue financial hardship together with the hearing request as provided above.

No activity may begin prior to the expiration of the appeal period or until a final decision is issued by the Department if an appeal is filed.

Failure to comply with this certification is grounds for enforcement, including civil and criminal penalties, under MGL c.21 §42, 314 CMR 9.00, MGL c. 21A §16, 310 CMR 5.00, or other possible actions/penalties as authorized by the General Laws of the Commonwealth.

If you have questions on this decision, please contact Yvonne Unger at 617-292-5893.

Sincerely,



Glenn Haas
Director
Division of Watershed Management

enclosure: Departmental Action Fee Transmittal Form

cc:

Crystal Gardner, Regulatory/Enforcement Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751
Alex Strysky, CZM, 251 Causeway Street, Suite 900, Boston, MA 02114
Vin Malkoski, Division of Marine Fisheries, Southeast Marine Fisheries Station, 50A Portside Drive, Pocasset, MA 02559
Dave Hill, Liz Kouloheras DEP SERO
Marshfield Conservation Commission, 870 Moraine Street, Marshfield, MA 02050

Yu/W044372

DH



John J. Clifford
Town Administrator

Town of Marshfield

Board of Selectmen
870 Moraine Street
Marshfield, Massachusetts, 02050
Tel: 781-834-5563 Fax: 781-834-5527



May 12, 2006

Mr. Daniel Vigneau
Green Harbor Marina
P.O. Box 338
Green Harbor, MA 02041

Dear Mr. Vigneau,

This letter shall serve to document our discussions regarding the proposed Green Harbor dredging project which is currently in the permitting phase. The Green Harbor inner harbor dredge project currently being planned and supervised by the Army Corp of Engineers (ACOE) calls for the removal of sediment buildup in the federal channel by hydraulic dredge. The dredge spoils material would be collected in the designated dredge spoils area (DSA) adjacent to the Marshfield wastewater treatment plant on Joseph Dribeek Way. Since the beginning of the planning and permitting process, the agreed upon plan has been to allow the private marinas in Green Harbor negotiate with the dredging contractor hired by the ACOE to dredge the marinas, and to use the DSA for disposal of material from the private dredging projects, subject to any conditions and limitations imposed by permitting agencies. Estimates prepared by the Town's engineers and the ACOE indicate that there is sufficient capacity in the DSA to accommodate the material from the private marinas in addition to the amount of material to be dredged for the Town. Absent any substantial change in the current conditions in the harbor or in the permitting process, we are still proceeding under the assumption that the public and private parties dredging Green Harbor will use the DSA as described above.

Recent events in the entrance channel have only served to raise awareness of the critical nature of our dredging needs. We are working closely with Congressman Delahunt, Senator Hedlund, and Representative Hynes to gain the funding necessary to advance this project and will keep you advised as to further developments.

Sincerely,

John J. Clifford
Town Administrator

May 18, 2006

Ms. Yvonne Unger
Department of Environmental Protection
Division of Wetlands and Waterways
One Winter Street
Boston, Massachusetts 02108

Re: Green Harbor Marina
239 Dike Rd. Green Harbor
Water Quality Certificate
Wetlands File No. SE42-1813
ACofE Application No. 2004-970

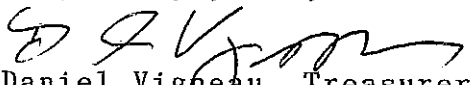
Dear Ms. Unger:

Please consider this a follow up to our letter to you dated February 24, 2006, requesting an amend Water Quality Certificate to include hydraulic dredging and disposal at the Town's upland disposal site.

I am enclosing for your review and files a letter from the Town of Marshfield authorizing the use of their upland site subject to any conditions and limitations imposed by the permitting agencies.

Thank you for your continued assistance.

Very truly yours,


Daniel Vigneau, Treasurer
Marina Harbor II Corporation
239 Dike Rd. P.O. Box 338
Green Harbor, MA 02041
(781) 837-1181

Enclosure

cc: David Hill, DEP Lakeville



Mr. David Hill
Commonwealth of Massachusetts
Department of Environmental Protection
Wetlands and Waterways Section
20 Riverside Drive
Lakeville, Massachusetts 02347

Re: Trans. No. 044463
Green Harbor Marina
239 Dike Road
Maintenance Dredging

Dear Mr. Hill:

Following up on your telephone conversation with Kevin Maguire, on June 8, 2006, regarding the above reference filing for the Marina, we are enclosing the following:

- 1) Signed Municipal Zoning Certificate Form;
- 2) Signed Planning Board Notification Form, and
- 3) The Secretary's Certificate.

Thank you for your continued assistance.

Very truly yours,

Daniel Vigneau
Marina Harbor II Corporation
dba Green Harbor Marina
239 Dike Rd. P.O. Box 338
Green Harbor, MA 02041
(781) 837-1181

Enclosures

DH

April 12, 2005



Ms. Yvonne Unger
 Department of Environmental Protection
 Division of Wetlands and Waterways
 One Winter Street
 Boston, Massachusetts 02108

Re: Green Harbor Marina
 239 Dike Rd. Green Harbor
 Request for Water Quality
 Certificate, Maintenance
 Dredging, Major Project
 Permit W 044372
 WQC No. 03-0934

Dear Ms. Unger:

Please consider this a follow up to your conversation with Mr. Kevin Maguire on April 5, 2005, regarding the above reference work at our Marina. As Mr. Maguire explained to you, during your absence, we were advised to direct all communications regarding the Chapter 91 Permit and the Water Quality Certificate for the Marina, to Mr. David Hill in Lakeville, which we did.

On January 31, 2005, we sent a letter to Mr. Hill, dated January 14, 2005, copy enclosed, with back up data, regarding the Chapter 91 issues and the requested data for the Water Quality Certificate. To date we have not received a response.

As indicated in the letter to Mr. Hill, and as we have stated previously, we have limited our disposal areas to the Town's upland disposal site off of Town Pier Road, or at the Cape Cod Disposal Site, (CCDS). In essences, if we dredge hydraulically, the material would be disposed of at the Town's upland disposal site, and if we dredged mechanically, the material will be disposed of at sea, at the CCDS.

As you may recall, the Army Corps of Engineers provided us with a Testing Sampling Plan, and with the additional testing requested by you, we proceeded with the testing work. This work was performed through the Norfolk Ram Group and a copy of the testing results is enclosed in their Report, dated June 28, 2004, containing 47 pages.

Since we last talked with you, the Corps issued the Marina a Permit, dated October 8, 2004, copy enclosed, for mechanical dredging with disposal at the CCDS, but not for hydraulic dredging with disposal at the Town's upland disposal site. After receipt of the Permit, we requested the Corps amend the permit to include hydraulic dredging with disposal at the Town's upland disposal site. A copy of the letter to the Corps, dated October 25, 2005, is enclosed. To date we have not received the amended permit.

We hope the enclosed items are sufficient for you to issue the Water Quality Certificate for both dredging and disposal applications.

Thank you for your assistance.

Very truly yours,



Daniel Vigneau, Treasurer
Marina Harbor II Corporation
d/b/a Green Harbor Marina
239 Dike Rd. P.O. Box 338
Green Harbor, MA 02041
(781) 837-1181

Enclosures

Cc: David Hill, DEP, Lakeville



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS
896 VIRGINIA ROAD
CONCORD, MASSACHUSETTS 01742-2751

October 8, 2004

Regulatory Division
CENAE-R-PEA
Permit Number: NAE 2004-970

Green Harbor Marina
ATTN: Mr. Daniel Vigneau
238 Dike Road
Marshfield, Massachusetts 02041

Dear Mr. Vigneau:

We have reviewed your application to maintenance dredge an area of approximately 4.1-acres to depths of approximately 5 and 6 feet below the horizontal plane of mean low water (MLW) in Green Harbor in Marshfield, Massachusetts. An estimated quantity of approximately 8,500 cubic yards of material will be dredged mechanically and disposed of at Cape Cod Disposal Site (CCDS). The work is described on the enclosed plans entitled "Proposed Maintenance Dredging in the Green Harbor River at Marshfield, Plymouth County Massachusetts" on six sheets, and dated "August 2003."

Based on the information you have provided, we have determined that the proposed activity, which includes a discharge of dredged or fill material into waters or wetlands, will have only minimal individual or cumulative environmental impacts. Therefore, this work is authorized as a Category II activity under the Federal permit, Massachusetts Programmatic General Permit (PGP), provided you comply with the following special conditions:

1. Intertidal areas shall not be dredged.
2. There shall be no dredging from February 1 to July 31, inclusive, of any year in order to minimize adverse impacts to winter flounder spawning and juvenile development and American shad and rainbow smelt migrations.
3. Disposal of dredged material at the Cape Cod Disposal Site (CCDS) shall not occur between December 15 and May 15 in order to protect right whales.
4. A marine mammal/turtle observer approved by National Marine Fisheries Service (NMFS) shall be present on the towing vessel for all disposal activities. The observer may be the dredged material disposal inspector as required by Special Condition No. 12, provided that he or she is also approved by NMFS.
5. In the event that marine mammals or turtles are sighted within 1,500 feet of the marker buoy, the tug captain and observer shall observe the following disposal procedure:

- A. If marine mammals or turtles are sighted within 1,500 feet of the marker buoy, note species, number of animals, direction of travel, and behavior (feeding, in transit, etc.).
 - B. If the animals are within 1,500 feet of the marker buoy and appear to be moving away from the buoy wait until they have cleared the buoy by 1,500 feet and then proceed with disposal at the buoy.
 - C. If the animals are within 1,500 feet of the marker buoy and appear to be remaining stationary, or are outside 1,500 feet but appear to be moving towards the buoy, proceed to the center of the CCDS and discharge the material at the position specified by the Water Quality Certification.
6. If the disposal occurs in darkness or otherwise limited visibility, the tug shall employ its searchlight for the benefit of the observer beginning 2,000 feet from the disposal buoy.
 7. In all cases, no disposal shall occur within 1,500 feet of a sighted marine mammal or turtle.
 8. The observer shall document each trip using the sighting log form supplied by the Corps of Engineers. The permittee must ensure that these sighting log forms are fully completed and received by the Corps' New England District within one week of the trip date. Address the submittal to: U.S. Army Corps of Engineers, New England District, Regulatory Division, Policy Analysis and Technical Support Branch, 696 Virginia Road, Concord, MA 01742-2751. The phone number is 978-318-8292, and the FAX number is 978-318-8303.
 9. Periodic maintenance dredging to the area and depth limits described herein is authorized for ten years from the date of issuance of this permit, **provided disposal of the dredged material is at an upland site**. However, the permittee must notify this office, in writing, 60 days before the intended date of any such dredging and shall not begin such dredging until written authorization has been obtained. This 60-day notification is not required for the initial new and/or maintenance dredging authorized by this permit. A separate authorization shall be required for such dredging if the material to be dredged is to be deposited in open or ocean waters and/or wetlands.
 10. At least ten working days in advance of the start date, the First Coast Guard District, Aids to Navigation Office, 617-223-8356, shall be notified of the location and estimated duration of the dredging and disposal operations.
 11. The Coast Guard Marine Safety Office, Boston, 617-223-3000, shall be notified prior to the start of this project.
 12. Every discharge of dredged material at the disposal site must be witnessed by an onboard inspector who has been trained by, and who holds a current certification from, the New England District of the Corps of Engineers. The disposal inspector shall be contracted

and paid for by the permittee. A list of currently certified inspectors can be obtained from the New England District Regulatory Division at 978-318-8292.

13. For the initiation of disposal activity and any time disposal operations resume after having ceased for one month or more the permittee or the permittee's representative must notify the Corps' New England District at least ten working days before the date disposal operations are expected to begin or resume. Contact the Policy Analysis and Technical Support Branch at 978-318-8292. The information to be provided in this notification is: permit number, permittee name, name and address of dredging contractor, estimated dates dredging is expected to begin and end, name of disposal inspector, name of the disposal site and estimated volume of material to be dredged. Disposal operations shall not begin or resume until the Policy Analysis and Technical Support Branch issues a letter authorizing the initiation or continuation of open-water disposal. The letter will include disposal-point coordinates to use for this specific project at that time. These coordinates may differ from those specified for other projects using the same disposal site or even from those specified earlier for this project. It is not necessary to wait ten days before starting disposal operations. They may start as soon as this letter is issued.
14. The permittee shall ensure that a separate Corps of Engineers disposal inspection report (scow log) is fully completed by the inspector for every trip to the disposal site and that this report is received by the Corps' New England District within one week of the trip date. The Regulatory Division telefax number is 978-318-8303. The original of this report must be mailed to: U.S. Army Corps of Engineers, Regulatory Division, Policy Analysis and Technical Support Branch, 696 Virginia Road, Concord, MA 01742-2751. For each dredging season during which work is performed the permittee must notify the Corps upon completion of dredging for the season by completing and submitting the form that the Corps will supply for this purpose when disposal-point coordinates are specified.
15. Except when directed otherwise by the Corps' DAMOS Program Manager for site management purposes, all disposal of dredged material shall adhere to the following: The permittee shall release the dredged material at a specified buoy or set of coordinates within the disposal site. All disposal is to occur at the buoy or specified coordinates with the scow at a complete halt. This requirement must be followed except when doing so will create unsafe conditions because of weather or sea state, in which case disposal within 100 feet of the buoy or specified coordinates with the scow moving only fast enough to maintain safe control (generally less than one knot) is permitted. Disposal is not permitted if these requirements cannot be met due to weather or sea conditions. In that regard, special attention needs to be given to predicted conditions prior to departing for the disposal site.

This determination becomes valid only after the Massachusetts Department of Environmental Protection (DEP) issues or waives the necessary 401 Water Quality Certification. In the event the State denies 401 Water Quality Certification, this determination becomes null and void. The address of the DEP Regional office for your area is provided in the enclosed PGP.

You must perform the activity authorized herein in compliance with the special conditions

provided above, all the terms and conditions of the PGP and any conditions placed on 401 Water Quality Certification, including any required mitigation. Please review the enclosed PGP carefully, including the PGP conditions beginning on page 9, to familiarize yourself with its contents. You are responsible for complying with all of the PGP requirements; therefore, you should be certain that whoever does the work fully understands all of the conditions. You may wish to discuss the conditions of this authorization with your contractor to ensure the contractor can accomplish the work in a manner that conforms to all requirements.

The Corps of Engineers has consulted with the National Marine Fisheries Service (NMFS) regarding the effects of your project on Essential Fish Habitat (EFH) designated under the Magnuson-Stevens Fishery Conservation and Management Act. The NMFS provided EFH conservation recommendations, which we included in special conditions Nos. 1 through 8 listed above. The purpose of these conditions is to minimize the impact of dredging and disposal operations on winter flounder breeding habitat and right whale activity.

Your project is located within, or may affect resources within the coastal zone. Therefore, in order for the above determination of eligibility to become the Federal authorization, a Federal consistency concurrence from the Massachusetts Office of Coastal Zone Management (MCZM) is required. However, MCZM has already determined that no further Federal Consistency Review is required.

If you change the plans or construction methods for work within our jurisdiction, please contact us immediately to discuss modification of this authorization. This office must approve any changes before you undertake them.

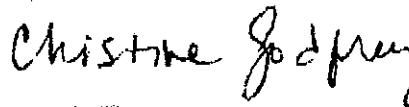
The time limit for completion of the dredging and open-water disposal authorized by this general permit authorization is three years from the date of this letter. There shall be no dredging or disposal after that completion date without further authorization in writing from the Corps.

This authorization requires you to notify us before beginning work and allow us to inspect the project. Therefore, you must complete and return the enclosed Work Start Notification Form to this office no later than two weeks before the anticipated starting date.

Please note that this determination does not constitute an authorization to proceed until all other applicable Federal, state and local permits are obtained. Performing work not specifically authorized by this permit, starting work without obtaining other Federal, state and local approvals, or failing to comply with the permit conditions may subject you to the enforcement provisions of our regulations.

If you have any questions, please contact Charles N. Farris of my staff at (978) 318-8336, (800) 343-4789, or (800) 362-4367 within Massachusetts.

Sincerely,


for Thomas L. Koning
Colonel, Corps of Engineers
District Engineer

Enclosures

Copies Furnished:

John McCulloch, U.S. EPA, Region 1, 1 Congress Street, Suite 1100-Mail Code CWQ,
Boston, Massachusetts 02114-2023
Christopher Boelke, National Marine Fisheries Service, One Blackburn Drive, Gloucester,
Massachusetts 01930-2298
William Neidermyer, U.S. Fish and Wildlife Service, 70 Commercial Street, Suite 300,
Concord, New Hampshire 03301-5087
Elizabeth F. Kouloheras, DEP Southeast Regional Office, Wetlands and Waterways,
20 Riverside Drive, Lakeville, Massachusetts 02347
Alexander Strysky, Coastal Zone Management, 251 Causeway Street, Suite 900, Boston,
Massachusetts 02114
Ellen Blackburn, Norfolk Ram Group, 1 Roberts Road, Plymouth, Massachusetts 02360



COMMONWEALTH OF MASSACHUSETTS
 EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

MITT ROMNEY
 Governor

ELLEN ROY HERZFELDER
 Secretary

KERRY HEALEY
 Lieutenant Governor

ROBERT W. COLLEDGE, Jr.
 Commissioner

January 9, 2003

Daniel Vigneau
 Green Harbor Marina
 P.O. Box 338
 Green Harbor, MA 02041

Re: Sampling and Analysis Plan, Green Harbor Marina, MARSHFIELD

Dear Mr. Vigneau:

The Department has reviewed the sampling and analysis plan developed by the Army Corps of Engineers, dated 10 December 2003. The Department considers the sampling locations and frequencies suitable. In order to evaluate the proposal for beneficial use of the sediment in upland locations, the following parameters should be added to the list of analyses to be performed:

The samples should be submitted for analysis for the following parameters:

Extractable Petroleum Hydrocarbons	25 mg/kg maximum detection limit
Conductivity	In U/mhos/cm or mg/kg
Volatile Organic Compounds	0.1 mg/kg maximum detection limit
Toxicity Characteristic Leaching Procedure	Required to be performed ONLY when sediment is to be managed in the upland environment and if the total concentrations of metals or organic compounds are equal to or greater than the theoretical concentration at which TCLP criteria may be exceeded, e.g., As > 100 mg/kg, Cd > 20 mg/kg, Cr > 100 mg/kg, Pb > 100 mg/kg, Hg > 4 mg/kg.

If you have any questions regarding these comments, please contact me at (617) 292-5893.

Sincerely,


 Yvonne Unger
 Environmental Analyst

Cc: Norm Farris, Marine Analysis Unit, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742

2 January 2004

MEMORANDUM FOR: Charles N. Farris, Project Manager, CENAE-R-PEA

SUBJECT: Sampling Plan for Green Harbor Marina, Green Harbor River, Marshfield, MA. Application Number 2003-02326.

1. In response to your request of 8 December 2003, we developed a sampling plan for the above project. The applicant is proposing to dredge material from an area of approximately 4.1 acres in Marshfield, MA. The volume of material to be dredged is approximately 8,500 cu. yds. The applicant proposes to dispose of this material at the Cape Cod Disposal Site (CCDS). This area was last dredged 23 years ago. The applicant is also exploring upland disposal for these materials.
2. **SPILLS & OUTFALLS:** The applicant reported a one gallon spill of marine fuel from a pleasure craft in 1996. This harbor has a small lobster and flatfish charter fleet as well as some recreational craft use. There are no outfalls near or within the dredging footprint.
3. Eight cores should be taken from the area to be dredged according to the attached plan. Core samples should be taken to the proposed dredge depth. The cores should be inspected in the field for stratification. If the cores show significant stratification, in the opinion of the sampling crew, subsamples should be made of each layer. All sediments being held for testing should be stored in accordance with the requirements of Table 8-2 in Evaluation of Dredged Material Proposed for Ocean Disposal, Testing Manual, 1991.
4. Each core or core layer should be individually analyzed for sediment grain size and the results reported to me before any compositing is performed. I will review the data and determine if compositing is appropriate.
5. Bulk sediment chemistry analyses should be done on each composite sample according to the Guidance for Performing Tests on Dredged Material to be Disposed of in Open Waters, (draft, May 15, 1989). The test parameters should include all of the items on the attached sheet. These parameters are extracted from Table 1A and Table 1B of the Guidance for Performing Tests on Dredged Material to be Disposed of in Open Waters. The detection limits should be those indicated on the attached sheet. The listed analytical methods are recommended but can be replaced by other methods that will give the required detection limits. The Total Organic Carbon analysis (TOC) should be done in duplicate on each composited sample and a TOC Standard Reference Material (SRM) should be run with the sample batch.

CENAE-R-PT

SUBJECT: Sampling Plan for Green Harbor Marina, Green Harbor River,
Marshfield, MA, Application Number 2003-02326.

6. Copies of this draft sampling plan were sent to the State DEP, US EPA and US NMFS. The State DEP concurred with this plan. The other agencies did not reply within the response period and their concurrence is assumed.

7. If you have any questions, please contact me at (978)318-8336 or charles.n.farris@usace.army.mil.

CHARLES N. FARRIS
Project Manager,
Marine Analysis Section

CENAE-R-PT

SUBJECT: Sampling Plan for Green Harbor Marina, Green Harbor River,
Marshfield, MA, Application Number 2003-02326.

BULK SEDIMENT TESTING PARAMETERS

Parameter	Analytical Method	Detection Limit (ppm)
Metals		
Arsenic	7060, 7061	0.5
Cadmium	7130, 7131	0.1
Chromium	7190, 7191	1.0
Copper	7210	1.0
Lead	7420, 7421	1.0
Mercury	7471	0.02
Nickel	7520	1.0
Zinc	7950	1.0

PCBs (total by NOAA summation of congeners)	8082	0.001
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Pesticides	8081A	0.02
Aldrin	Endrin	
Chlordane	Hexachlorobenzene	
DDT	gamma Hexachlorocyclohexane (Lindane)	
DDE	Heptachlor	
DDD	Heptachlor Epoxide	
Dieldrin	Methoxychlor	
Endosulfan I	Toxaphene	
Endosulfan II	Trans-nonachlor	
Endosulfan Sulfate		

Polyaromatic Hydrocarbons (PAH's)	8270	0.02
-----------------------------------	------	------

Acenaphthene	Chrysene
Acenaphthylene	Dibenzo(a,h)anthracene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(a)pyrene	Indeno(1, 2, 3-cd)pyrene
Benzo(b)fluoranthene	Naphthalene
Benzo(k)fluoranthene	Phenanthrene
Benzo(g, h, i)perylene	Pyrene

Total Organic Carbon	9060	0.1%
----------------------	------	------

Percent Water		1.0%
---------------	--	------

Grain Size	Wet Sieve (#4, 10, 40, 200)	
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12/17/01

CENAE-R-PT

SUBJECT: Sampling Plan for Green Harbor Marina, Green Harbor River,
Marshfield, MA, Application Number 2003-02326.

PCB CONGENERES

Analytical Method: EPA Method 8082

Target Detection Limit: 1 ppb

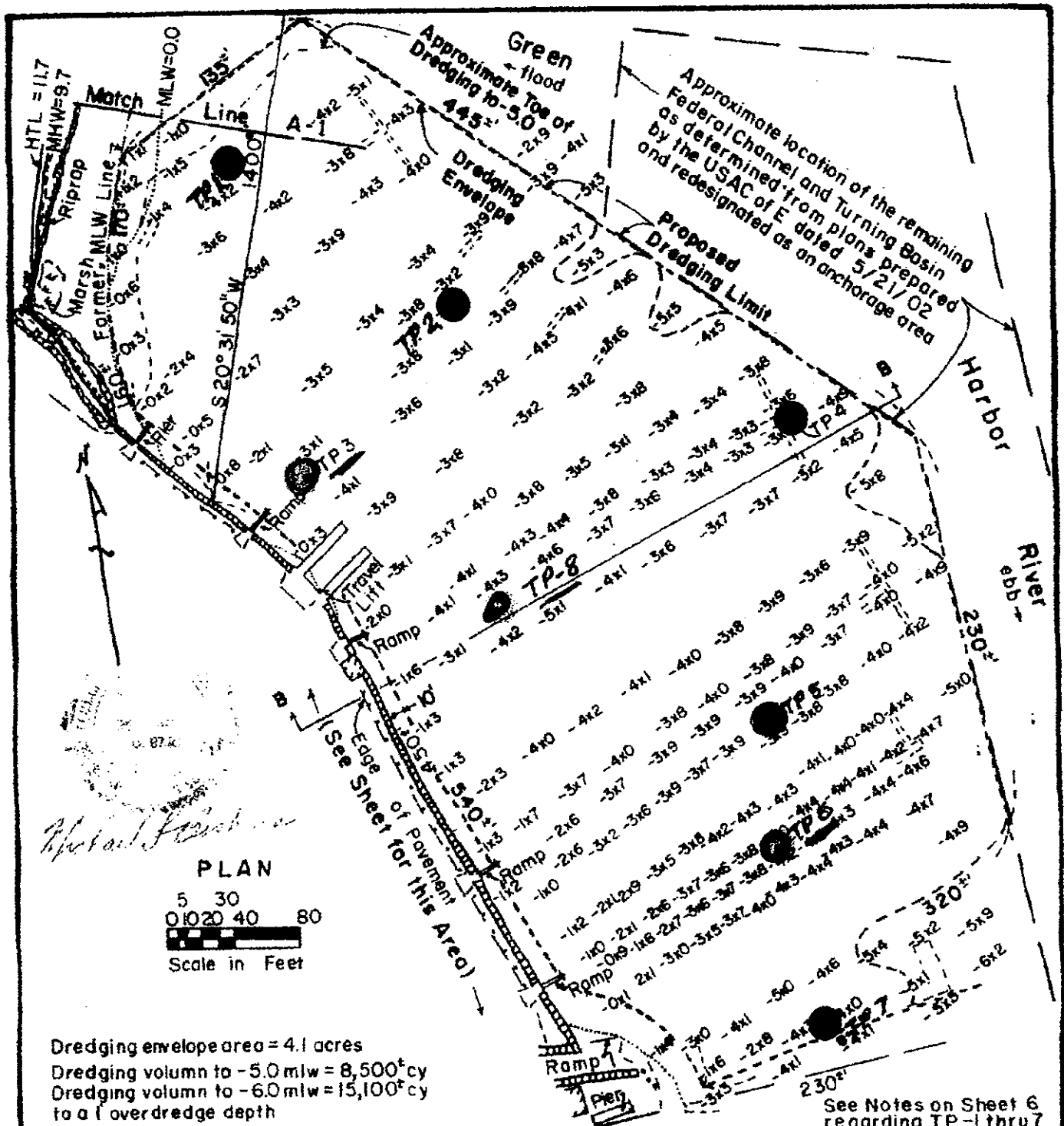
Congeners

8*	2,4' diCB
18*	2,2',5 triCB
28*	2,4,4' triCB
44*	2,2',3,5' tetraCB
49	2,2',4',5 tetraCB
52*	2,2',5,5' tetraCB
66*	2,3',4,4' tetraCB
87	2,2',3,4,5' pentaCB
101*	2,2',4,5,5' pentaCB
105*	2,3,3',4,4' pentaCB
118*	2,3',4,4',5 pentaCB
128*	2,3,3',4,4' hexaCB
138*	2,2',3,4,4',5' hexaCB
153*	2,2',4,4',5,5' hexaCB
170*	2,2',3,3',4,4',5 heptaCB
180*	2,2',3,4,4',5,5' heptaCB
183	2,2',3,4,4',5',6 heptaCB
184	2,2',3,4,4',6,6' heptaCB
187*	2,2',3,4',5,5',6 heptaCB
195*	2,2',3,3',4,4',5,6 octaCB
206*	2,2',3,3',4,4',5,5',6 nonaCB
209*	2,2',3,3',4,4',5,5',6,6' decaCB

The specified method is a recommendation only. Other acceptable methodologies capable of meeting the Target Detection Limits can be used. Sample preparation methodologies (e.g. extraction and cleanup) and sample size may need to be modified to achieve the required target detection limits.

* denotes a congener to be used in estimating Total PCB. To calculate Total PCB, sum the concentrations of all eighteen congeners marked with a "*" and multiply by 2.

8/31/00



PURPOSE: To perform maintenance dredging

Datum: MLW = 0.0
MHW = 9.7
HTL = 11.7

Michael L. Beshara, PLS

DREDGING PLAN

Application By:
Marina Harbor II Corporation
Rte 139 P.O. Box 338
Green Harbor, MA 02041

Proposed Maintenance Dredging

In the Green Harbor River
at Marshfield, Plymouth County
Massachusetts
Date: Aug., 2003 Sheet 4 of 6

Hill, David (DEP)

From: Malkoski, Vincent (FWE)
Sent: Friday, February 06, 2004 9:33 AM
To: Unger, Yvonne (DEP); Ziencina, Mitch (DEP); Hill, David (DEP)
Cc: Griffin, Melanie (FWE); Churchill, Neil (FWE); Chris Boelke (E-mail)
Subject: Marshfield, Green Harbor Marina Dredging

Good morning

For the Green Harbor Marina dredging project, we recommend that no dredging be conducted from February 1 through July 31 to minimize impacts to winter flounder (*Pseudopleuronectes americanus*), American shad (*Alosa sapidissima*), and rainbow smelt (*Osmerus mordax*) passage, spawning and juvenile development.

Vin

Vin Malkoski
Senior Marine Fisheries Biologist / Diving Safety Officer
MA Division of Marine Fisheries
50A Portside Drive
Pocasset, MA 02559
Tel: 508.563.1779, x 119 Fax: 508.563.5482



Marine Fisheries
A Commonwealth of Massachusetts Agency



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST REGIONAL OFFICE

20 RIVERSIDE DRIVE, LAKEVILLE, MA 02347 508-946-2700

MITT ROMNEY
Governor

ELLEN ROY HERZFELDER
Secretary

KERRY HEALEY
Lieutenant Governor

ROBERT W. GOLLEDGE, Jr.
Commissioner

February 6, 2004

Laurie Futch
P.O. Box 117
Brant Rock, MA 02020-0117

RE: Waterways Application No. W03-0934, Green Harbor Marina Dredge Project
Green Harbor River, Marshfield (Green Harbor), Plymouth County

Dear Ms. Futch:

The Department has received your letter regarding the above referenced project. A copy of your letter is being forwarded to the applicant and their representative for review and a response to your comments. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "David E. Hill".

David E. Hill
Environmental Engineer
Waterways Regulation Program

DEH/dh

cc: Marina Harbor II Corporation, Attn: Daniel Vigneau, Treasurer

This information is available in alternate format. Call Debra Doherty, ADA Coordinator at 617-292-5565. TDD Service - 1-800-298-2207.

DEP on the World Wide Web: <http://www.mass.gov/dep>

Printed on Recycled Paper

Laurie Futch
Nancy Walonis

P.O. Box 117
Brant Rock, Mass. 02020-0117
1-781-834-0176
NA



January 30, 2004

Department of Environmental Protection:

We the undersigned request to be heard on the above mentioned matter.

As residents, homeowners, and/ or business owners in Marshfield, our concern is with the disposal of dredged material from Green Harbor Marina; i.e.

Testing,
Frequency of testing,
Disposal of material,
Location of disposal; site, ect.

In Dec 2003 the continued hearing was scheduled for Febuary 24, 2004 @ 7:00 p.m.
Please advise of any changes.

Thank you for your corporation:

Laurie Futch
Laurie Futch
P.O. Box 117
Brant Rock, Mass. 02020-0117

Re: Chapter 91 Dredge Permit
Marina Harbor Corp. d/b/a
Green Harbor Marina
(see attached)

OPPOSING THE DISPOSAL OF INNER HARBOR DREDGING

NAME	ADDRESS	TOWN	PHONE	SIGN
J.M. Bennett	61 MONITOR	MARSHFIELD	781 837 8668	<i>J.M. Bennett</i>
Laurie Futch	18 Island st	BRANT ROCK	781-834-0176	<i>Laurie Futch</i>
JEFF FUTCH	18 Island st	BRANT ROCK	781-834-0176	<i>Jeff Futch</i>
JASON LESLIE	18 Island st	BRANT ROCK	781-834-0176	<i>Jason Leslie</i>
Dana Hembach	11 Bradford	Brant Rock	717-901-9610	<i>Dana Hembach</i>
Tom Kozlowski	20 Brambley St	Brant Rock	781-834-8962	<i>Tom Kozlowski</i>
P. Pyle	24 Cobble Hill	Kingston	781 585 5543	<i>P. Pyle</i>
JIM KRAMA	42 Ocean St	Brant Rock	781-837-8703	<i>Jim Krama</i>
Spencer	288 Ocean St	Brant Rock		<i>Spencer</i>
A. Lofgren	232 Ocean St	BRANT ROCK		<i>A. Lofgren</i>
Shel Moroz	47 Linwood	BRANT ROCK		<i>Shel Moroz</i>
Bill Lawrence	33 Park St	Brant Rock		<i>Bill Lawrence</i>
Stacy New	50 Beach St	MARSHFIELD	781 852 6023	<i>Stacy New</i>
Robert Nolle	20 Main St	OCEAN BLUFF	724 479 3000	<i>Robert Nolle</i>

NAME	ADDRESS	TOWN	PHONE	SIGN
Chas Kelly	39 ASH ST	Brant Rock	832-9311	
R. Barchenier	de North St	Brant Rock	834-0394	
Paul R	17 Tower Ave	Brant Rock		
Paul	74 Hancock St	Brant Rock	834-4716	
Dominic Condo	Amherst St		837-0872	
Robert	Loring Drive	Brant Rock		
Michael Cosma	723 Island St	Brant Rock		
Paul Sims	26 Ocean St	MARSHALL		
Martin Ceras	99 Portum	Marshall	832-9090	
Dina Riberson	226 A Dean St	Brant Rock		
Tom Flanders	19 Marginal St.	Green Harbor		

Marina Harbor II Corp. d/b/a Green Harbor Marina, 239/Dike Road (Rte. 139), Green Harbor, MA, to perform maintenance dredging of approximately 15,100 cubic yards of sediments from the marina berthing basin in the municipality of Marshfield in and over flowed tidelands of Green Harbor. The proposed project has been determined to be water-dependent pursuant to 310 CMR 9.12(2)(a). Additional information about this project may be obtained from Marina Harbor II Corporation, P.O. Box 338, Green Harbor, MA 02041. Contact Person: Daniel Vigneau, Treasurer, (781) 437-1131.

public comment period may result in the waiver of any right to an adjudicatory hearing.

AD#409907
(Marshfield Mariner 1/7/04)

Written comments on the 401 WQC must be sent within twenty-one (21) days of this notice to:

Department of Environmental Protection
Division of Wetlands and Waterways
1 White Street
Boston, MA 02108

Written comments on the Chapter VI Dredge Permit must be sent within fifteen (15) days of this notice to:

Department of Environmental Protection
Wetlands and Waterway Program
20 Riverside Drive
Lakeville, MA 02347

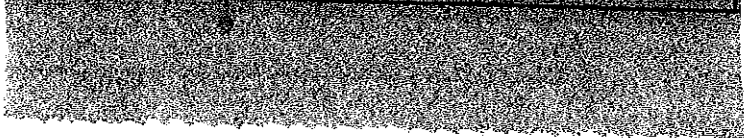
Any group of interested persons, an interested person, or any governmental body or private organization will be deemed to protect the environment who submits written comments, may appeal the Department's Certification and Dredge Permit. Failure to submit written comments before the end of the

MAINTENANCE DREDGING

**LEGAL NOTICE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Joint 401 WQC and Chapter VI Dredge Notice**

Notification Date: January 16, 2004

Pursuant to 33 B.S.G. 134I and M.G.L. c. 21A, notice is given of a 401 Water Quality Certification (WQC) Application and M.G.L. Chapter 91, 310 CMR 9.00 Waterways Application by the





The Commonwealth of Massachusetts

*Executive Office of Environmental Affairs
Department of Environmental Quality Engineering*

*Division of Waterways
100. Nashua Street, Boston 02114*

August 23, 1978

L & W Realty Trust
Box 358
Green Harbor, MA 02041

Gentlemen:

The Department of Environmental Quality Engineering has approved License No. 497 authorizing the L & W Realty Trust to construct and maintain concrete bulkhead, additional floats, ramp, and to fill and to dredge in Green Harbor River, at its property in the town of Marshfield. The said License No. 497 is enclosed.

A copy of this license is being forwarded to the United States Army, Corps of Engineers, 424 Trapelo Road, Waltham, MA 02154, for their information and records.

Please notify this Department of the date this license is recorded in the Plymouth County Registry of Deeds, including the book and page numbers and the date the authorized work is completed.

Very truly yours,

A handwritten signature in cursive script, appearing to read "John J. Hannon".

JOHN J. HANNON, P.E.
Chief Engineer

cc: Corps of Engineers
DEQE - Region IV
Div. of Water Pollution Control
enc: License and Plan
Water Quality Certificate

MEC:i

License No. 497/L & Realty Trust/ page 2

A concrete bulkhead may be constructed and maintained in said harbor, commencing at the northerly side of an existing boat ramp, (authorized by Department of Public Works License No. 5552) and as shown on sheet 2 of license plan no. 497, extending in a northwesterly direction for a distance of approximately 296 feet, to the southerly side of an existing travel lift pier (authorized by the said License No. 5552), and as shown on sheets 1 and 2 of the accompanying license plan no. 497. Thence said bulkhead continues on the northerly side of said travel lift pier, extending in a northwesterly direction for a distance of approximately 163 feet as shown on sheet 1 of the accompanying plan no. 497. Said concrete bulkhead shall be constructed having a face slope of one foot horizontal to three feet vertical and a top elevation of approximately 13 feet above mean low water datum.

Clean, suitable fill may be placed and maintained behind said concrete bulkhead, as required.

An area waterward of said concrete bulkhead may be dredged to an elevation of 2 feet below mean low water datum. Dredged material shall be disposed of at an approved on-shore disposal site and above the mean high water line, as indicated in the Water Quality Certificate dated August 9, 1978, and in accordance with the Order of Conditions issued by the Town of Marshfield, numbered SE-42-36. However, in any event, said dredged material shall be disposed of in such a manner as to insure against its return into tidewaters.

Additional floats may be added to the existing main float, extending in a landward direction, described as follows:

1. An 8 by 40 foot float having one (1) 3 by 20 foot finger float on the southerly side and two (2) 3 by 16 foot finger floats on the northerly side may be added to the main float, indicated as "existing main float #1" on sheet 2 of license plan no. 497.
2. An 8 by 20 foot float, having one (1) 3 by 20 foot finger float on the northerly side and two (2) 3 by 12 foot finger floats on the southerly side may be added to the main float, indicated as "existing main float #2" on sheet 2 of license plan no. 497.
3. A 6 by 60 foot float, having one (1) 3 by 20 foot finger float on the northerly side and two (2) 3 by 20 foot finger floats on

The plan of said work, numbered 4 9 7 is on file in the office of said Department, and duplicate of said plan accompanies this License, and is to be referred to as a part hereof.

~~The amount of tide-water displaced by the work hereby authorized shall be ascertained by said Department, and compensation therefor shall be made by the said~~

~~here, successors~~

License No. 497/L & W Realty Trust/ page 3

3. Continued

the southerly side may be added to main float, indicated as "existing main float #3" on sheets 1 and 2 of license plan no. 497.

4. A 6 by 70 foot float, having three (3) 3 by 16 foot finger floats on the northerly side and one (1) 3 by 24 foot finger floats on the southerly side may be added to the main float, indicated as "existing main float no. 4" on sheet 1 of license plan no. 497.

5. A 6 by 40 foot float, having three (3) 3 by 24 foot finger floats on the northerly and southerly side may be added to the main float indicated as "existing main float #5" on sheet 1 of license plan no. 497.

Said main floats shall be reached by ramps from the top of said bulkhead.

All work authorized hereby shall be constructed and maintained in the location shown and in accordance with the details given on the accompanying license plan no. 497.

Please see page 4 for additional conditions to this license.

~~and assigns, by paying into the treasury of the Commonwealth~~
cents for each cubic yard so displaced, being the amount hereby assessed by
said Department.

Nothing in this License shall be so construed as to impair the legal rights of any person.

This License shall be void unless the same and the accompanying plan are recorded within one year from the date hereof, in the Registry ----- of Deeds for the ----- District of the County of Plymouth.

Environmental Quality Engineering

In Witness Whereof, said Department of Public Works have hereunto set their hands this twenty-fourth ----- day of August ----- in the year nineteen hundred and seventy-eight.

John J. Conway

Department of
Public Works
Environmental
Quality
Engineering

THE COMMONWEALTH OF MASSACHUSETTS

~~This license is approved in consideration of the payment into the treasury of the Commonwealth by the said~~
of the further sum of
the amount determined by the Governor as a just and equitable charge for rights and privileges hereby granted in land of the Commonwealth.

Approved by the Governor,

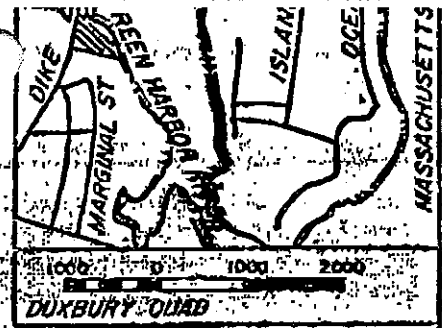
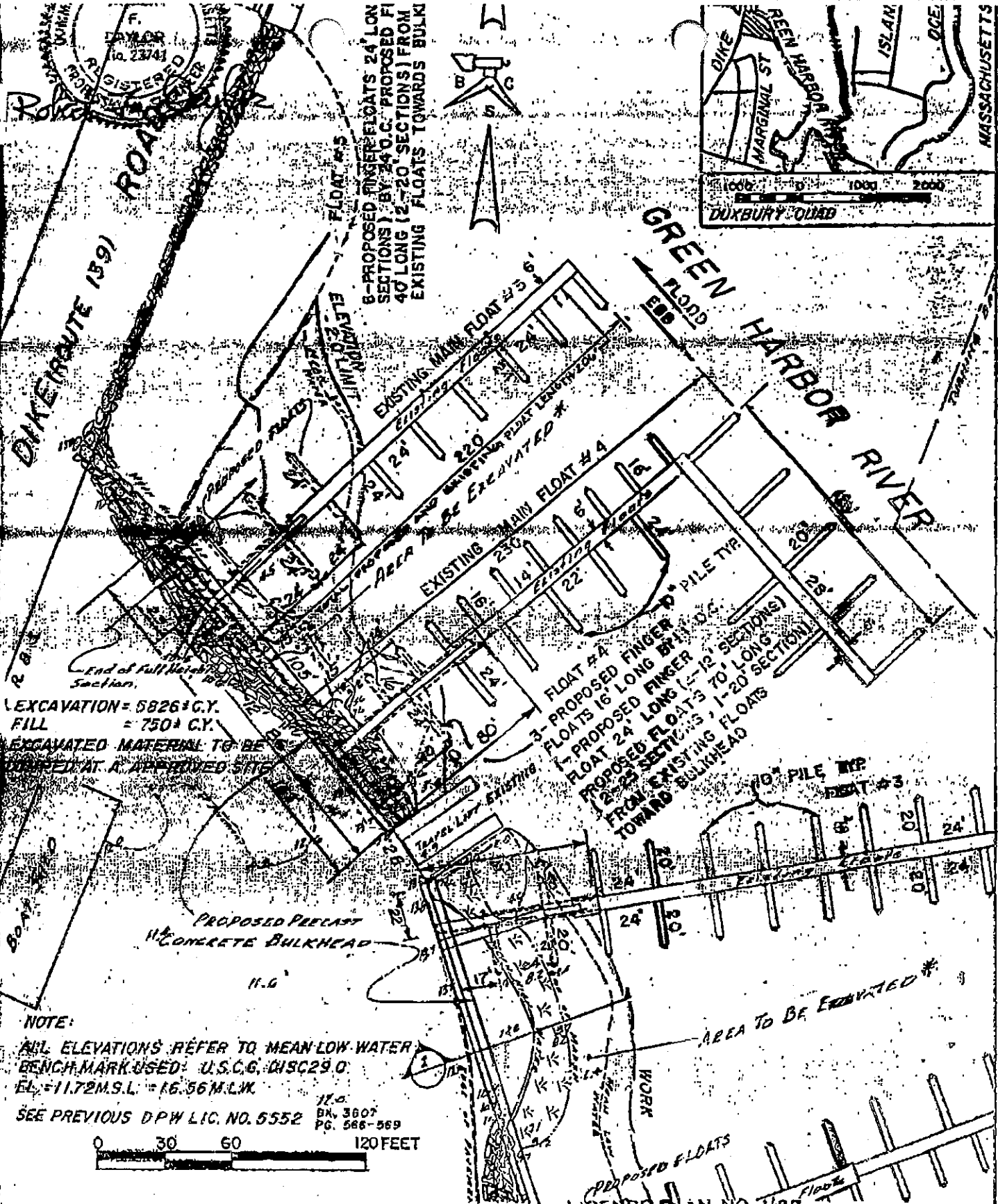
BOSTON,

Governor

A TRUE COPY.

ATTEST:

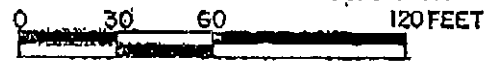
John J. Conway



B-PROPOSED FINGER FLOATS 24' LONG SECTIONS) BY 24' O.C. PROPOSED FINGER FLOATS 20' LONG SECTIONS) FROM 40' LONG (2'-20' SECTIONS) FROM EXISTING FLOATS TOWARDS BULKHEAD

EXCAVATION = 58263 C.Y.
 FILL = 7503 C.Y.
 EXCAVATED MATERIAL TO BE DUMPED AT A APPROVED SITE

NOTE:
 ALL ELEVATIONS REFER TO MEAN LOW WATER BENCH MARK USED: U.S.C.G. CHSC29.0
 EL. = 11.72 M.S.L. = 16.56 M.L.W.
 SEE PREVIOUS DPW LIC. NO. 5552
 11.0
 BK. 3607
 PG. 588-589



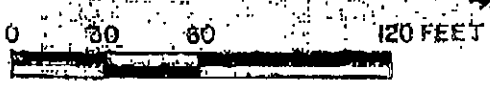
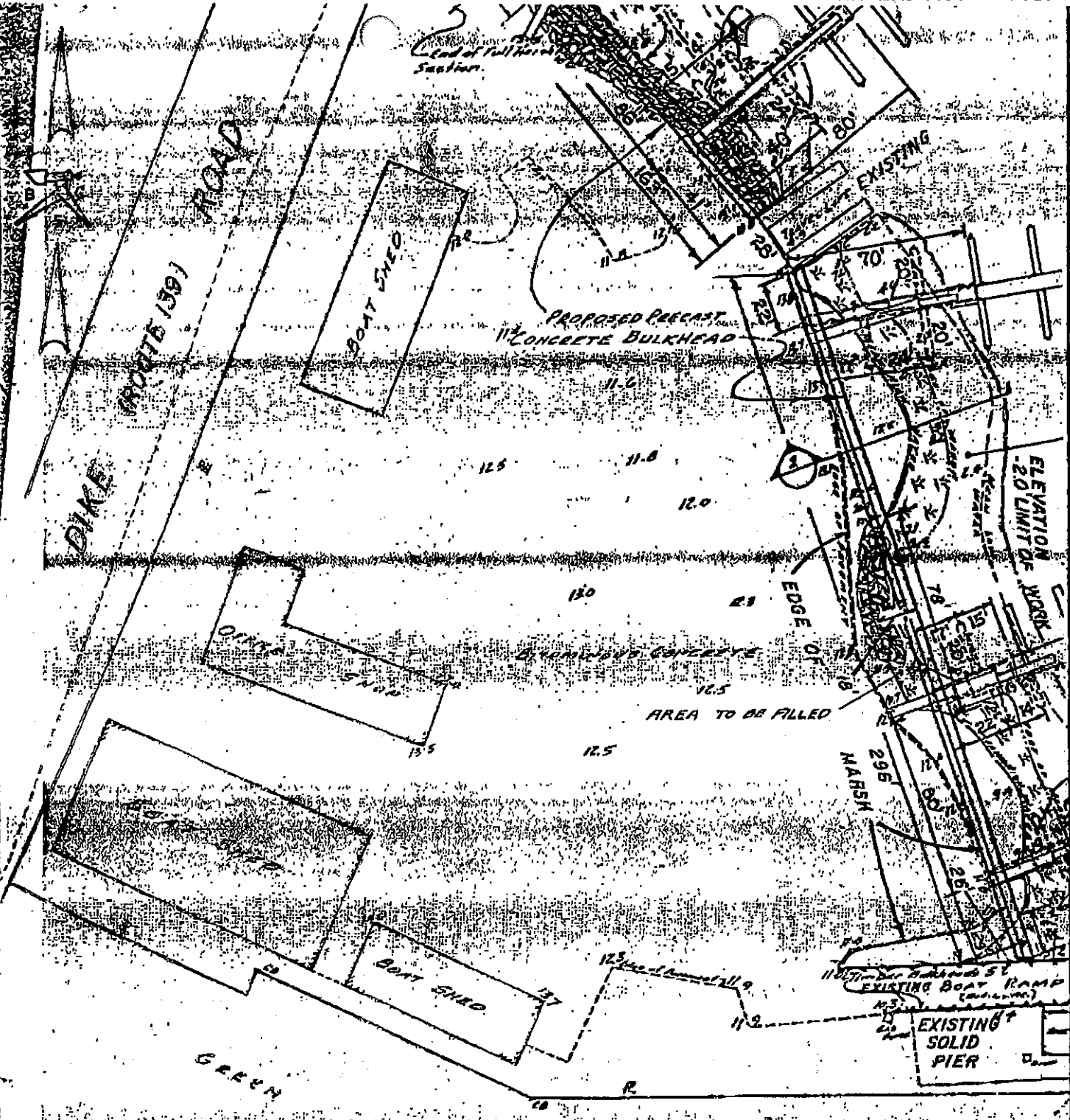
PLAN ACCOMPANYING PETITION OF L & W REALTY TRUST

TO CONSTRUCT & MAINTAIN CONCRETE BULKHEAD, ADDITIONAL FLOATS, FLOATS & RAMPS AND TO MAINTAIN EXISTING TRAVEL RAMP, ASPHALT RAMP, FIXED MARINA FLOATS, RAMPS, SERVICE LINES AND SOLID PIER. DREDGE AS SHOWN IN GREEN HARBOR, TOWN OF MARSHFIELD COUNTY OF PLYMOUTH, MASS.

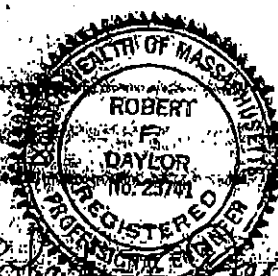
Approved by Department of Environmental Quality Engineering of Massachusetts August 28, 1978

[Signature]

COMMISSIONER
 CHIEF ENGINEER



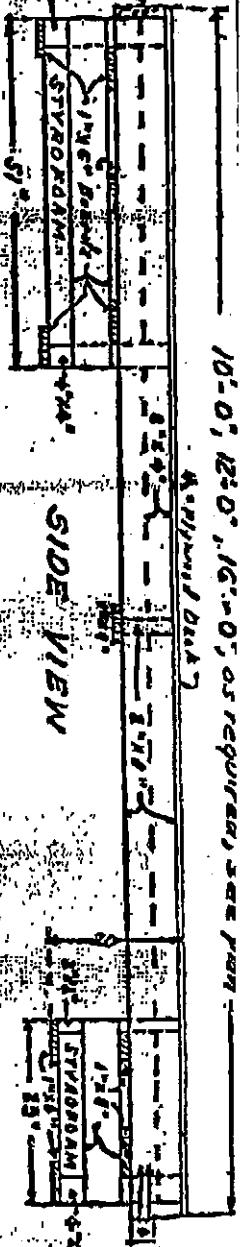
YACHT CLUB INC.
2 DIKE RD.



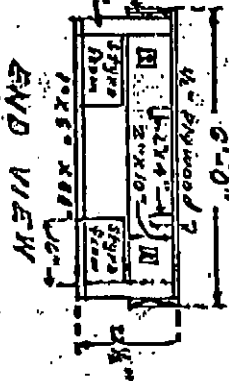
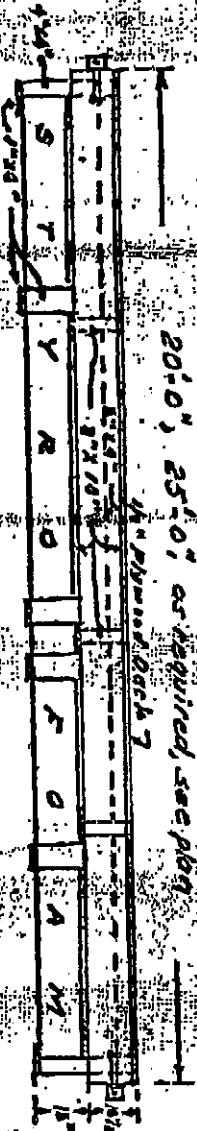
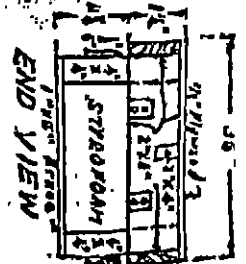
Robert F. Daylor

LICENSE PLAN NO. 497

Approved by Department of Environmental Quality Engineering



Scale in feet



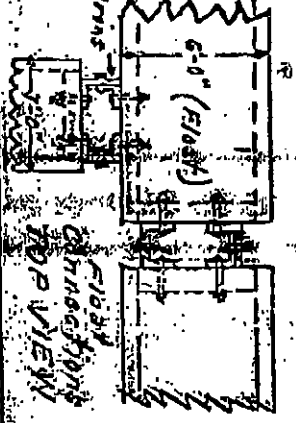
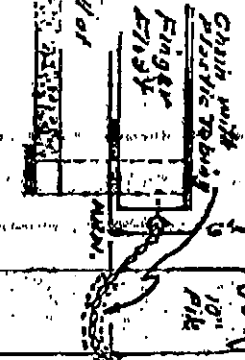
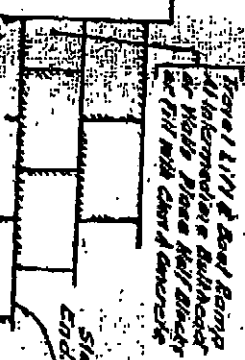
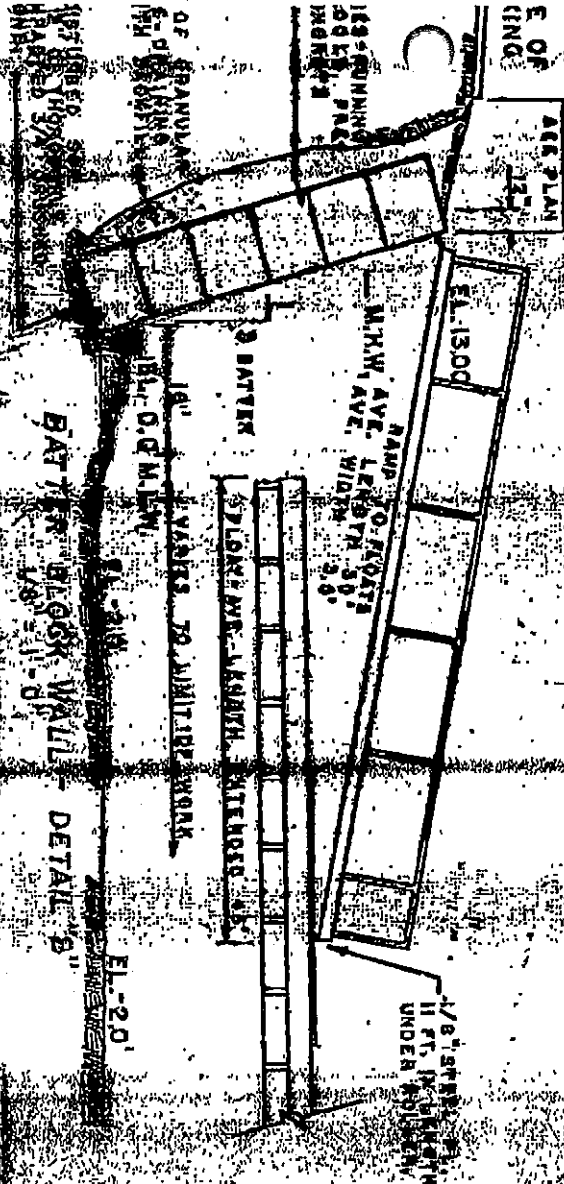
TYPICAL FINGER FLOAT

TYPICAL FLOAT & RAMP

Note: All ramps 25' long with no dry room

LICENSE PLAN NO. 4197

Approved by Department of Environmental Health
August 28, 1978

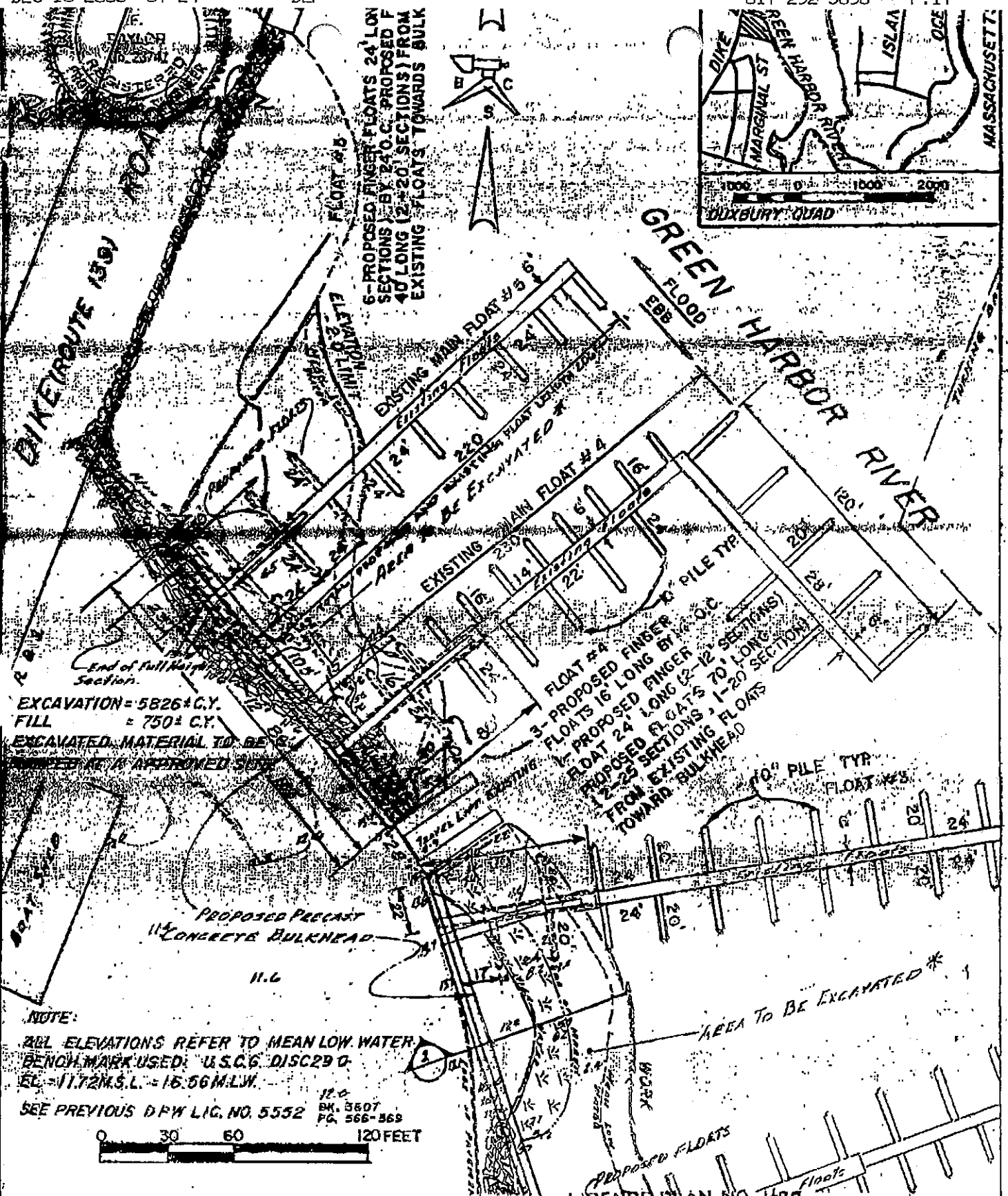


10'-0", 12'-0", 16'-0", or required, see plan

As Required Detail 2

As Required 3

As Required 3



EXCAVATION = 5826± C.Y.
 FILL = 750± C.Y.
 EXCAVATED MATERIAL TO BE RE-USED AT AN APPROVED SITE

NOTE:
 ALL ELEVATIONS REFER TO MEAN LOW WATER
 BENCH MARK USED: U.S.C.G. DISC 29 D
 EL. = 11.72 M.S.L. = 15.56 M.L.W.
 SEE PREVIOUS D.P.W. LIC. NO. 5552 BK. 3507 PG. 566-569

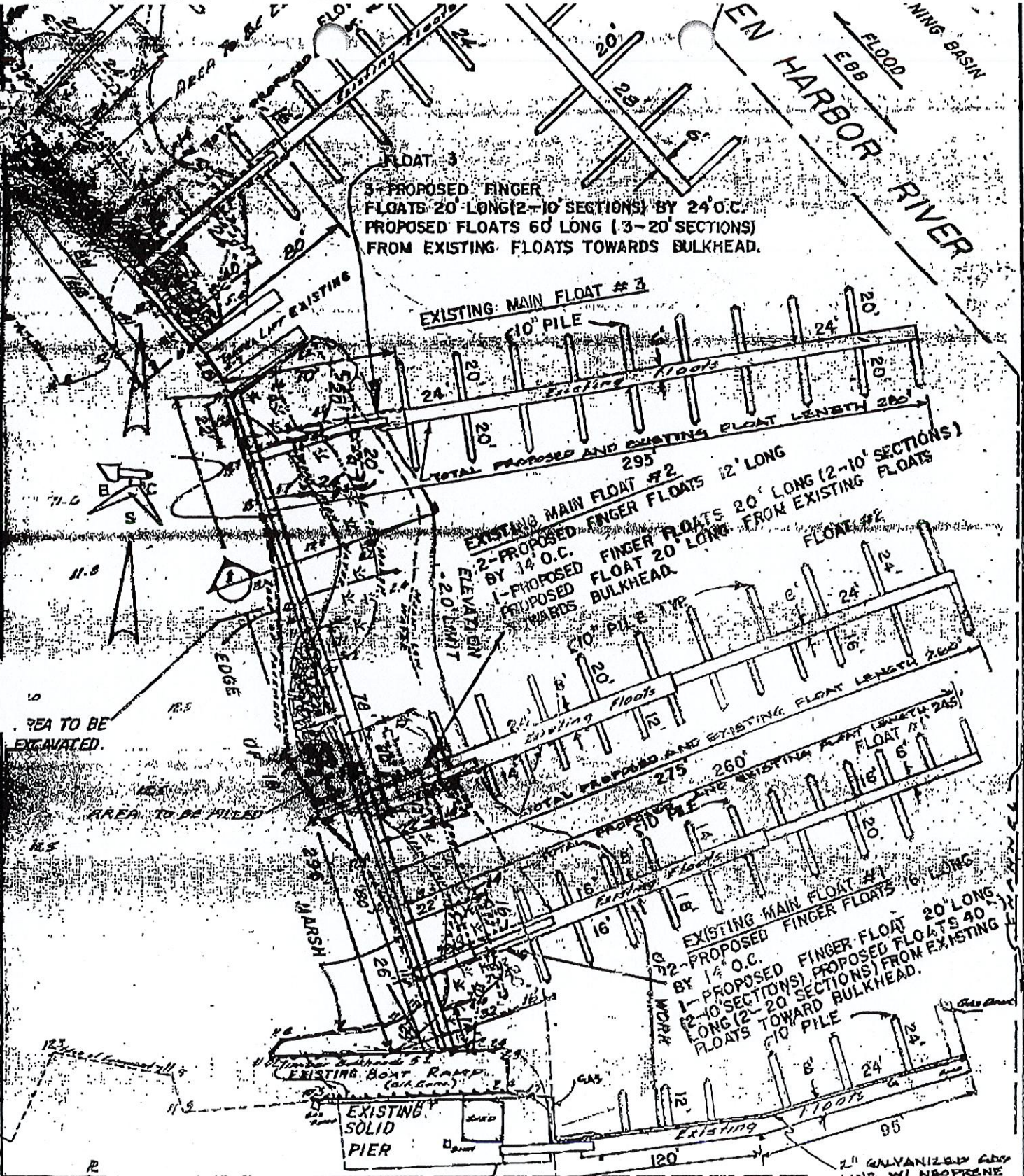
PLAN ACCOMPANYING PETITION OF
L & W REALTY TRUST

TO CONSTRUCT & MAINTAIN CONCRETE BULKHEAD, ADDITIONAL FLOATS, FINGER FLOATS, RAMP AND TO MAINTAIN EXISTING TRAVEL LANE, EXISTING RAMP, FINGER FLOATS, RAMP, SERVICE LINES AND SOLID PIER, DREDGE AS SHOWN IN GREEN HARBOR, TOWN OF MARSHFIELD COUNTY OF PLYMOUTH, MASS.

SCALE: 1"=60' REV. 10/12/77 JULY 25, 1977
 MALCOLM T. SHAW CO.
 100 STATE STREET ST. HALIFAX, MASS. SHEET 1 of 4

Approved by Department of Environmental Quality Engineering
 of Massachusetts August 28, 1978
COMMISSIONER
CHIEF ENGINEER

[Signature]



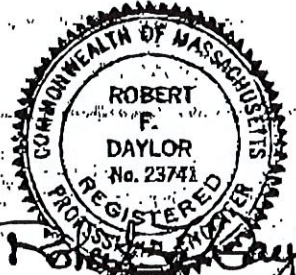
AREA TO BE EXCAVATED.

AREA TO BE FILLED

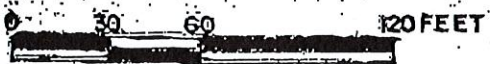
EXISTING BOAT RAMP (with ramp)

EXISTING SOLID PIER

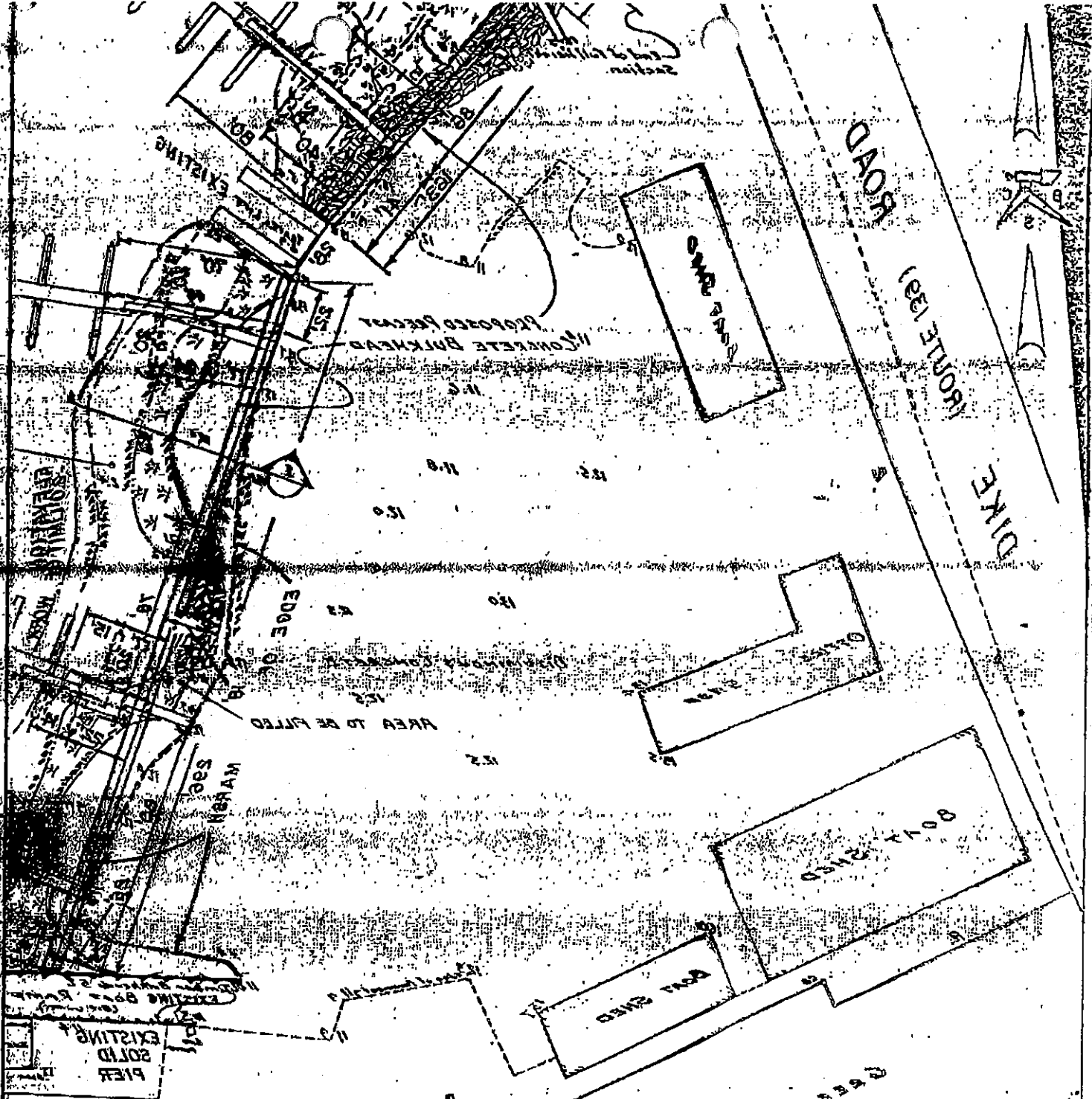
GREEN HARBOR YACHT CLUB INC.
2 DIKE RD.



2" GALVANIZED GUY LINE W/ NEOPRENE CONNECTORS BETWEEN FLOATS



Robert F. Daylor
 AUGUST 28, 1978



YACHT CLUB INC
S DIKE RD

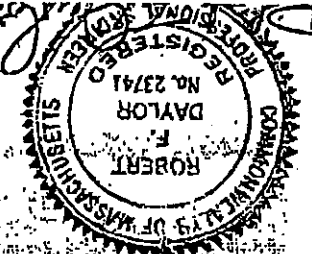
150 FEET
0 30 60



Robert F. Daylor

LICENSE PLAN NO. 404

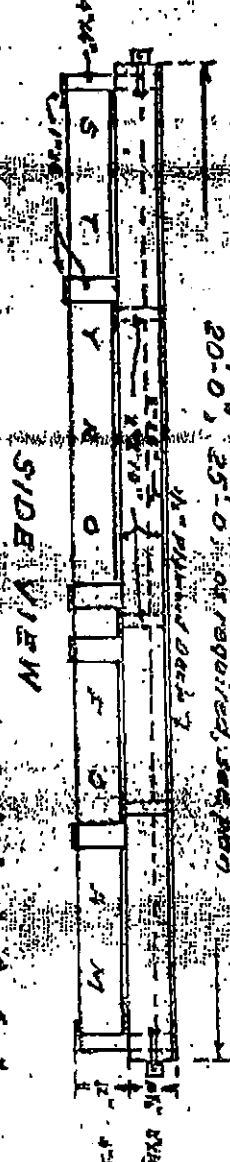
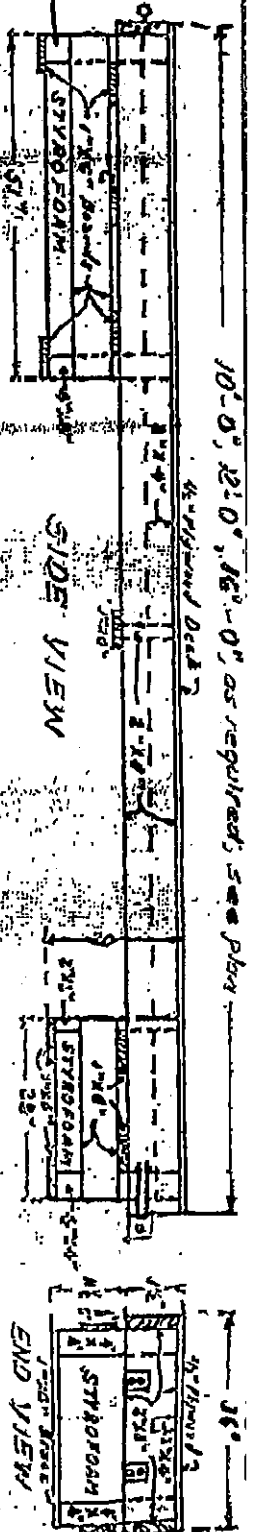
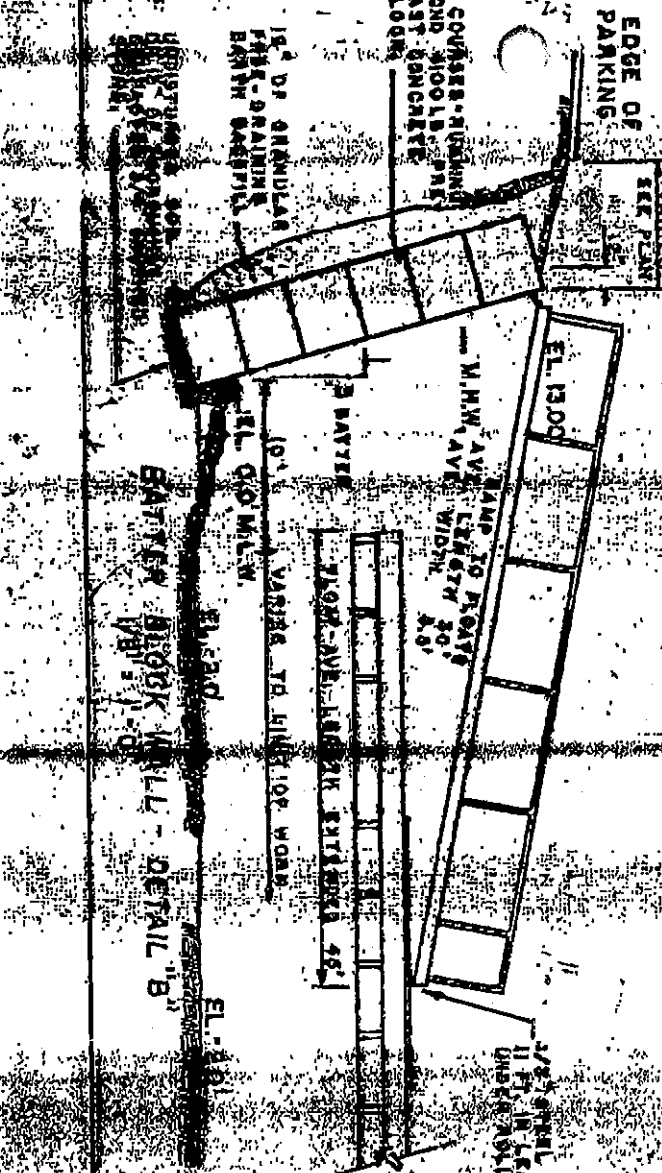
Approved by Department of Environmental Quality



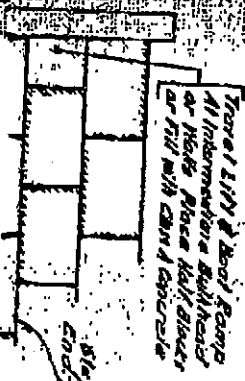
Note: All ramps 25' long with no styrofoam

LICENSE PLAN NO. 497

Approved by Department of Environmental Quality Engineering
August 28, 1978



TYPICAL FINGER FLOAT & RAMP



DETAIL A
(Face View)
1/8" = 1'-0"





Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Department of Environmental Protection

William F. Weld
Governor

Daniel S. Greenbaum
Commissioner

November 20, 1991

Michael J. Connolly, Treasurer
Marina Harbor Corp.
P.O. Box 338
239 Dike Road
Green Harbor, MA 02041

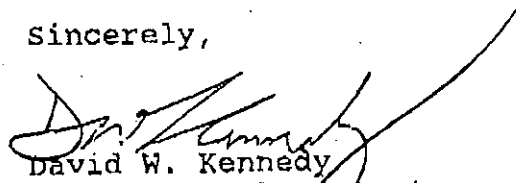
RE: Marina Harbor Corp., Dredge Application W90-0698D
Dredge Permit No. 221

Dear Mr. Connolly:

Enclosed is a Department of Environmental Protection Permit which authorizes the referenced dredge activities. Please note the Permit expires ten years from the date of issue.

A copy of this Permit is being forwarded to the United States Army Corps of Engineers and the Town of Marshfield Harbormaster for their information and records.

Sincerely,



David W. Kennedy
Environmental Analyst
Waterways Regulation Program

DWK/bc

cc: ACOE
Marshfield Harbormaster
DEP - SE Region

COMMONWEALTH OF MASSACHUSETTS
 EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 ONE WINTER STREET, BOSTON, MA 02108 617-292-5500



MITT ROMNEY
 Governor

KERRY HEALEY
 Lieutenant Governor

ELLEN ROY HERZFELDER
 Secretary

ROBERT W. GOLLEDGE, Jr.
 Commissioner

Fax

To: Dave Hill *Michael Girvan*

Fax: 508-947-6557 **Pages:**

Phone: - **Date:** 12/10/2003

Re: **CC:**

Urgent For Review Please Comment Please Reply Please Recycle

• **Comments:**

Michael R. Girvan
 Waterways Regulation Program
 Michael.girvan@state.ma.us
 Phone (617) 556-1134
 Fax (617) 292-5696

Information is available in alternate format. Call April McCabe, ADA Coordinator at 1-617-556-1171. TDD Service - 1-800-298-2207.

DEP on the World Wide Web: <http://www.mass.gov/dep>

Printed on Recycled Paper



Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Department of Environmental Protection

William F. Weld
Governor

Daniel S. Greenbaum
Commissioner

PERMIT NO. 221

Name and Address of Permittee:

Marina Harbor Corporation
239 Dike Road
Green Harbor, MA 02041

ISSUED: November 20, 1991
EXPIRES: November 20, 2001

Permission is hereby given by the Department of Environmental Protection to dredge: By hydraulic method approximately 2500 cubic yards of subaqueous material from the Green Harbor marina basin section of the Green Harbor River. The dredged material will be drained at an upland holding area of the marina property then deposited on another upland portion of the marina property located at 239 Dike Street, Marshfield, MA.

All work authorized herein shall be in the location shown and to the dimensions indicated in the permit plan (s) titled: Plan accompanying petition of Marina Harbor Corporation for maintenance dredging in Green Harbor River Marshfield, September 1990, Rev. Aug. 31, 1991.

STANDARD WATERWAYS PERMIT CONDITIONS

1. Acceptance of this Waterways Permit shall constitute an agreement by the Permittee to conform to all terms and conditions stated herein.
2. The Waterways Permit is issued upon the express condition that any and all other applicable authorizations necessitated due to the provisions hereof shall be secured by the Permittee prior to the commencement of any activity authorized pursuant to this Permit.
3. This Waterways Permit shall be revocable by the Department for noncompliance with the terms and conditions set forth herein. This Permit may be revoked after the Department has given written notice of the alleged noncompliance to the Permittee, or his agent, and those persons who have filed a written request for such notice with the Department and afforded them a reasonable opportunity to correct said noncompliance. Failure to correct said noncompliance after the issuance of a written notice by the Department shall render this Waterways Permit void.

PERMIT NO. 221

Page 2

4. This Waterways Permit is issued subject to all applicable federal, state, county, and municipal laws, ordinances, by-laws, and regulations including but not limited to a valid final Order of Conditions issued pursuant to the Wetlands Protection Act, G.L. Chapter 131, s.40. In particular, this issuance is subject to the provisions of Sections 52 to 56, inclusive, of Chapter 91 of the General Laws, which provide, in part, that the transportation and dumping of the dredged material shall be done under the supervision of the Department, and that the Permittee shall be liable to pay the cost of said supervision whenever the owner of the dredge or excavating machine fails to pay for the same within ten (10) days after notification in writing from the Treasurer of the Commonwealth that the same is due.
5. This Waterways Permit is issued upon the express condition that the dredging and transport and disposal of dredged material shall be in strict conformance with all applicable requirements and authorizations of the DEP, Division of Water Pollution Control.
6. All subsequent maintenance dredging and transport and disposal of this dredged material during the term of this Permit shall conform to all standards and conditions applied to the original dredging operation performed under this Permit.
7. After completion of the work hereby authorized, the Permittee shall furnish, to the Department, a suitable plan showing the depths at mean low water over the area dredged. The dredging under this Permit shall be so conducted as to cause no unnecessary obstruction of the free passage of vessels. In doing the dredging authorized, care shall be taken to cause no shoaling. If, however, any shoaling is caused, the Permittee shall, at his expense, remove the shoal areas. The Permittee shall pay all costs of supervision, and if at any time the Department deems necessary a survey or surveys of the area dredged, The Permittee shall pay all costs associated with such work. Nothing in this Permit shall be so construed as to impair the legal rights of any persons, or authorize dredging on land not owned by the Permittee without consent of the owner(s) of such property.
8. The Permittee shall assume and pay all claims and demands arising in any manner from the work authorized herein, and shall save harmless and indemnify the Commonwealth of Massachusetts, its officers, employees, and agents from all claims, audits, damages, costs and expenses incurred by reason thereof.
9. The Permittee shall, at least three days before commencing any place of dredging in the tide water, give written notice to the Department of the location and amount of the proposed work, and the time at which it is expected.

Permit No. 221

Page 3

10. Whosoever violates any provision of this permit shall be subject to a fine of \$25,000 per day for each day such violation occurs or continues, or by imprisonment for not more than one year, or both such fine and imprisonment; or shall be subject to civil penalty not to exceed \$25,000 per day for each such violation occurs or continue.

SPECIAL WATERWAYS PERMIT CONDITIONS

Dredging is authorized to a depth of 5.5 feet below Mean Low Water and may be maintained to a depth of 5.5 feet below Mean Low Water for ten years from the date of this permit.

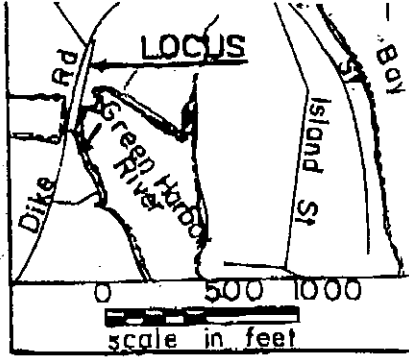
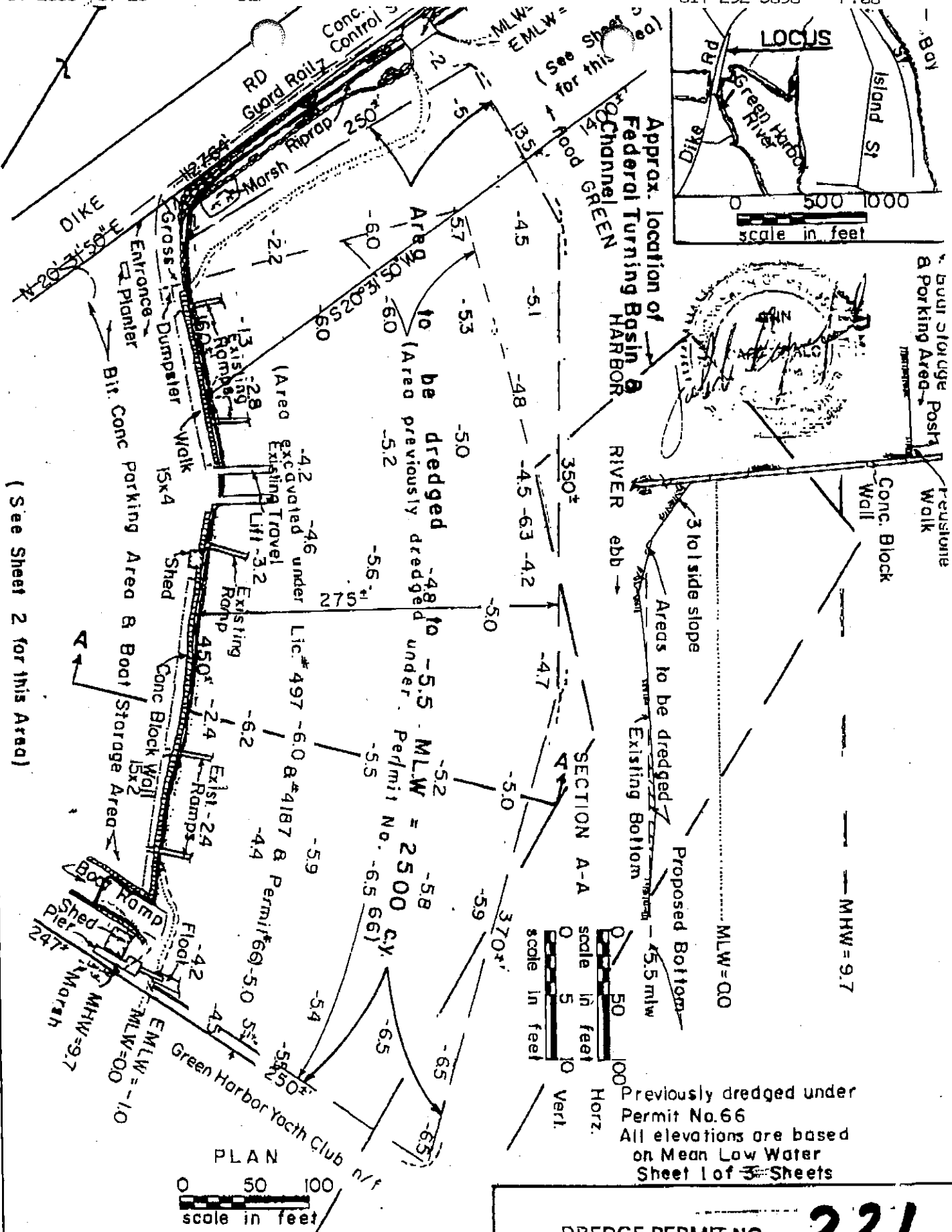
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Christy Foote-Smith

Director, Division of Wetlands and Waterways Regulation

J. A. S. S.

Section Chief, Waterways Regulation Program



(See Sheet 2 for this Area)

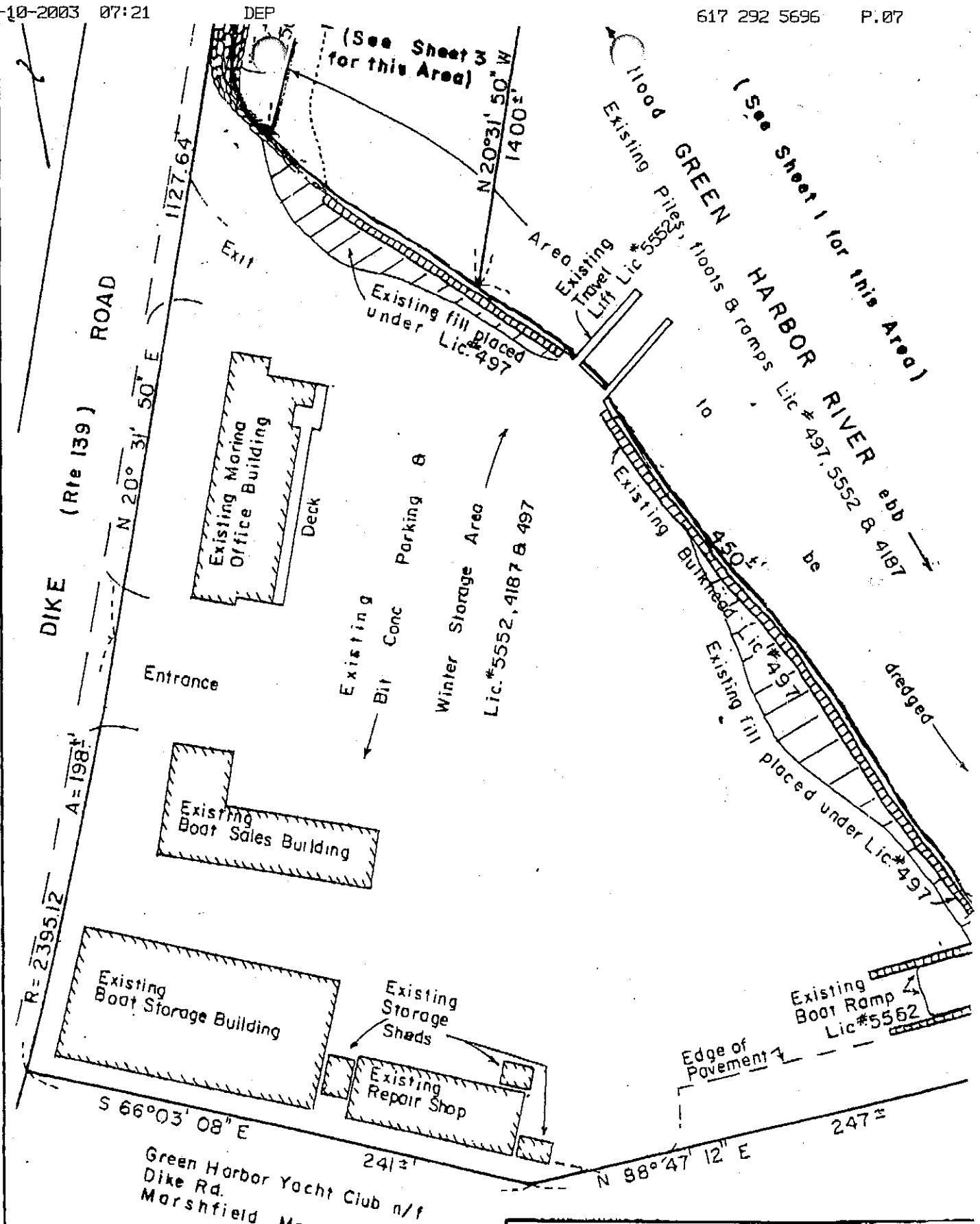
Approx. location of Federal Turning Basin & Channel GREEN

0 50 100
 scale in feet
 Horiz.
 0 5 10
 scale in feet
 Vert.

Previously dredged under Permit No. 66
 All elevations are based on Mean Low Water
 Sheet 1 of 3 Sheets

DREDGE PERMIT NO. **221**
 Approved by Department of Environmental Protection
 Massachusetts
Christopher Smith COMMISSION DIRECTOR
[Signature] SECTION CHIEF
 NOV 20 1991 DATE

Plan accompanying petition of
 MARINA HARBOR CORPORATION
 for maintenance dredging in the Green Harbor
 River, Marshfield
 September 1990

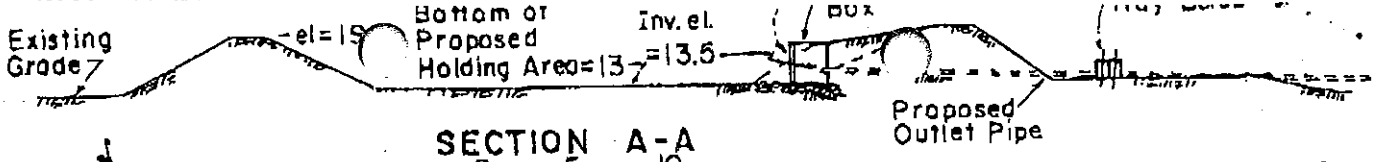


5 PLAN
 0 10 20 30 60
 scale in feet

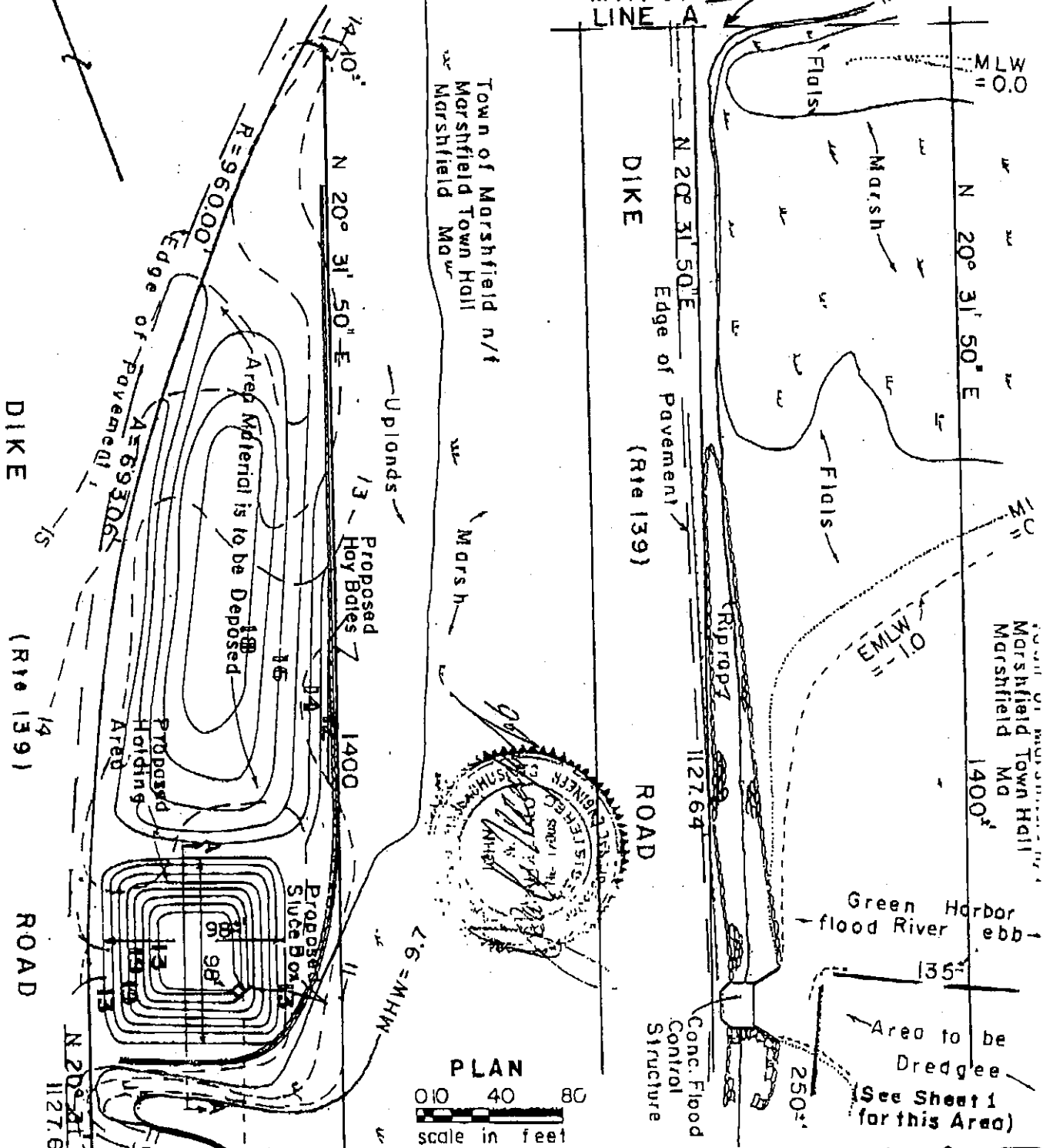
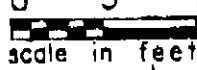
Sheet 2 of 3 Sheets
 Elevation are based
 on Mean Low Water



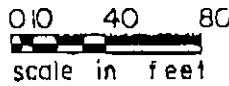
DREDGE PERMIT NO. **221**
 Approved by Department of Environmental Protection
 of Massachusetts
Christy...
 DIVISION DIRECT
 SECTION CHIEF
 DATE
 NOV 20 1998



SECTION A-A



PLAN



DREDGE PERMIT NO. 221
 Approved by Department of Environmental Protection
 of Massachusetts
Christy Ann Smith DIRECTOR
[Signature] SECTION CHIEF
 NOV 20 1991 DATE

Sheet 3 of 3 Sheets
 Elevation are based
 on Mean Low Water

12/19/03

Dave Hill

Attached are permit # 221, 6 sheets
and license # 497 8 sheets

If you need anything else please
call

Thanks

Kevin Maguire

781-878-6774

Total No. of Sheets - 15 -



Form WD 54
M-11-97-948226

The Commonwealth of Massachusetts

Plan
#605
& Sh.

No. 497.



Whereas, L & W Realty Trust

of Marshfield, in the County of Plymouth and Commonwealth
aforesaid, has applied to the Department of Public Works for license to Environ-
mental Quality Engineering for license to construct and maintain
concrete bulkhead, additional floats, piers and ramps and to
maintain existing structures in Green Harbor River in Marshfield
and has submitted plans of the same; and whereas due notice of said application, and of
the time and place fixed for a hearing thereon, has been given, as required by law, to the
Selectmen of the Town of Marshfield;

Now said Department, having heard all parties desiring to be heard, and having fully
considered said application, hereby, subject to the approval of the Governor, authorizes
and licenses the said L & W Realty Trust

subject to the provisions of the
first chapter of the General Laws, and of all laws which are or may be in force applicable
thereto, to construct and maintain concrete bulkhead, additional
floats, ramp, to fill and to dredge in Green Harbor River, at its
property, in the town of Marshfield, in conformity with the
accompanying plan no. 497 (four sheets).

B26

168

A concrete bulkhead may be constructed and maintained in said harbor, commencing at the northerly side of an existing boat ramp, (authorized by Department of Public Works License No. 5552) and as shown on sheet 2 of license plan no. 497, extending in a northwesterly direction for a distance of approximately 296 feet, to the southerly side of an existing travel lift pier (authorized by the said License No. 5552), and as shown on sheets 1 and 2 of the accompanying license plan no. 497. Thence said bulkhead continues on the northerly side of said travel lift pier, extending in a northwesterly direction for a distance of approximately 163 feet as shown on sheet 1 of the accompanying plan no. 497. Said concrete bulkhead shall be constructed having a face slope of one foot horizontal to three feet vertical and a top elevation of approximately 13 feet above mean low water datum.

Clean, suitable fill may be placed and maintained behind said concrete bulkhead, as required.

An area waterward of said concrete bulkhead may be dredged to an elevation of 2 feet below mean low water datum. Dredged material shall be disposed of at an approved on-shore disposal site and above the mean high water line, as indicated in the Water Quality Certificate dated August 9, 1978, and in accordance with the Order of Conditions issued by the Town of Marshfield, numbered SE-42-36. However, in any event, said dredged material shall be disposed of in such a manner as to insure against its return into tidewaters.

Additional floats may be added to the existing main float, extending in a landward direction, described as follows:

1. An 8 by 40 foot float having one (1) 3 by 20 foot finger float on the southerly side and two (2) 3 by 16 foot finger floats on the northerly side may be added to the main float, indicated as "existing main float #1" on sheet 2 of license plan no. 497.
2. An 8 by 20 foot float, having one (1) 3 by 20 foot finger float on the northerly side and two (2) 3 by 12 foot finger floats on the southerly side may be added to the main float, indicated as "existing main float #2" on sheet 2 of license plan no. 497.
3. A 6 by 60 foot float, having one (1) 3 by 20 foot finger float on the northerly side and two (2) 3 by 20 foot finger floats on

The plan of said work, numbered ----- 4 9 7 ----- is on file in the office of said Department, and duplicate of said plan accompanies this License, and is to be referred to as a part hereof.

The amount of tide-water displaced by the work hereby authorized shall be ascertained by said Department, and compensation therefor shall be made by the said ~~parties~~ heirs, successors

B27

2 of 8

License No. 497/L & W Realty Trust/ page 3

3. Continued

the southerly side may be added to main float, indicated as "existing main float #3" on sheets 1 and 2 of license plan no. 497.

4. A 6 by 70 foot float, having three (3) 3 by 16 foot finger floats on the northerly side and one (1) 3 by 24 foot finger floats on the southerly side may be added to the main float, indicated as "existing main float no. 4" on sheet 1 of license plan no. 497.
5. A 6 by 40 foot float, having three (3) 3 by 24 foot finger floats on the northerly and southerly side may be added to the main float indicated as "existing main float #5" on sheet 1 of license plan no. 497.

Said main floats shall be reached by ramps from the top of said bulkhead.

All work authorized hereby shall be constructed and maintained in the location shown and in accordance with the details given on the accompanying license plan no. 497.

Please see page 4 for additional conditions to this license.

2 of 8

B78

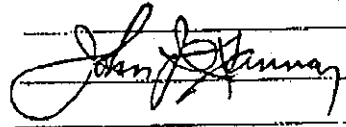
4525 REG 474

and assigner, by paying into the treasury of the Commonwealth
cents for each cubic-yard so displaced, being the amount hereby assessed by
said Department.

Nothing in this License shall be so construed as to impair the legal rights of any person.

This License shall be void unless the same and the accompanying plan are recorded
within one year from the date hereof, in the Registry ----- of Deeds for the -----
District of the County of Plymouth.

In Witness Whereof, said Department of Public-Works have hereunto set their hands
this twenty-four ----- day of August ----- in the
year nineteen hundred and seventy-eight.



Department of
Public-Works
Environmental
Quality
Engineering

THE COMMONWEALTH OF MASSACHUSETTS

This license is approved in consideration of the payment into the treasury of the Com-
monwealth by the said
of the further sum of

the amount determined by the Governor as a just and equitable charge for rights and
privileges hereby granted in land of the Commonwealth.

Approved by the Governor.

BOSTON, -----

Governor

REC'D SEP 6 1978 AT 1-19 PM AND RECORDED

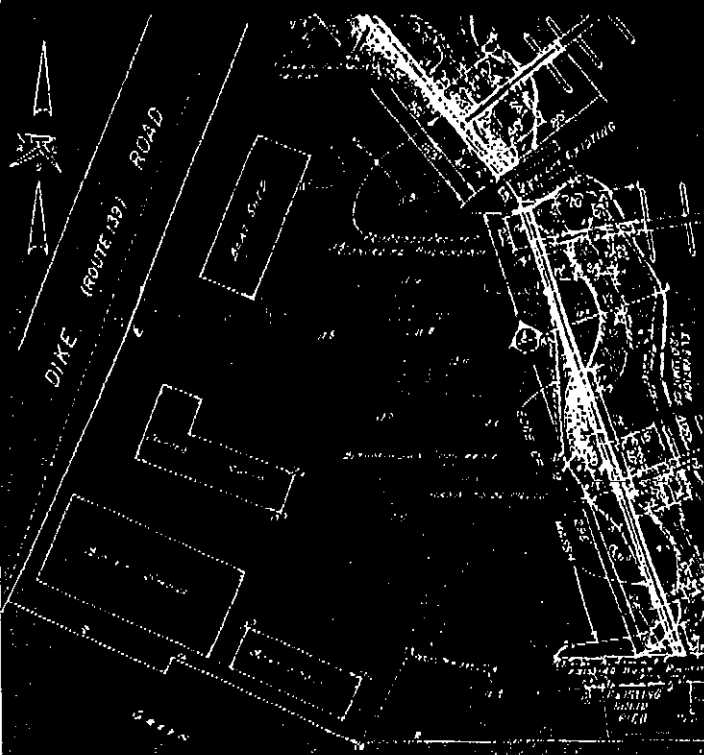
4 8 8

BTA

SEP 4 1978
7-6-78

I hereby certify that the above is a true and correct copy of the original as shown to me by the applicant and that the same is in accordance with the provisions of the laws of the State of New York.

James H. Whittell
County Clerk



0 30 60 120 FEET

PLANT: GRASS AND
R. DIKE RD.



John J. Taylor

LICENSE PLAN NO. 777

Approved by Department of Environmental Quality Engin.

JULY 23, 1971 10/17/71

20111-564

Box 27 1078
Copy 178 605

7
8
3

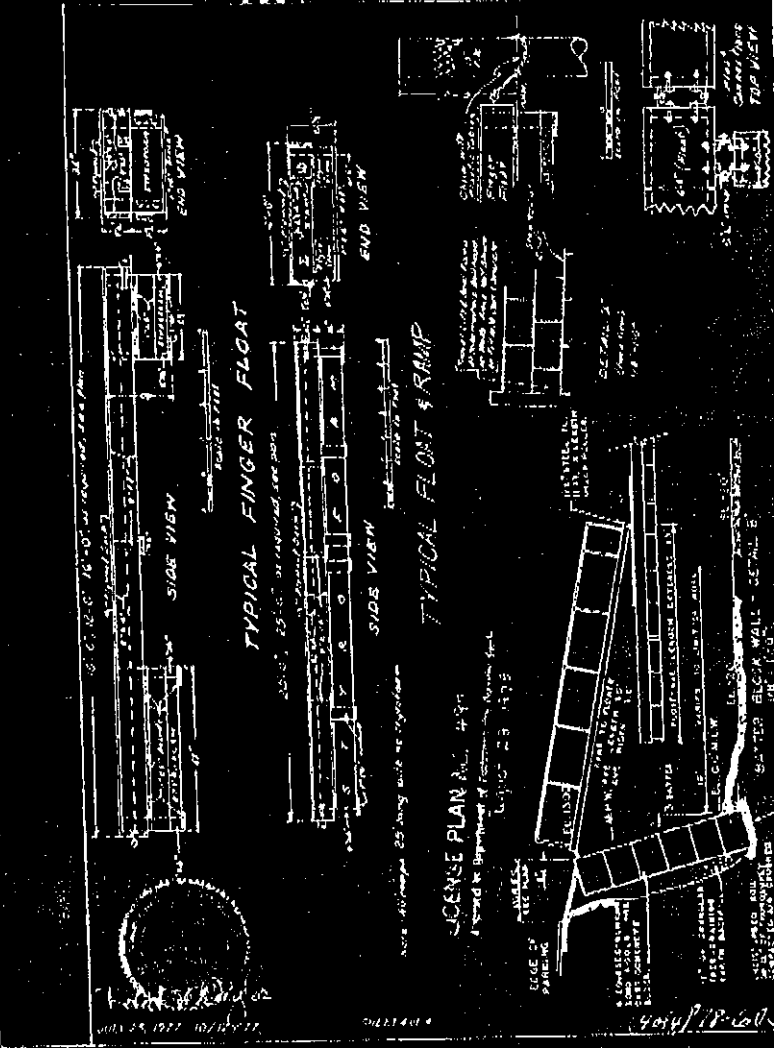
B
93



James H. ...
...

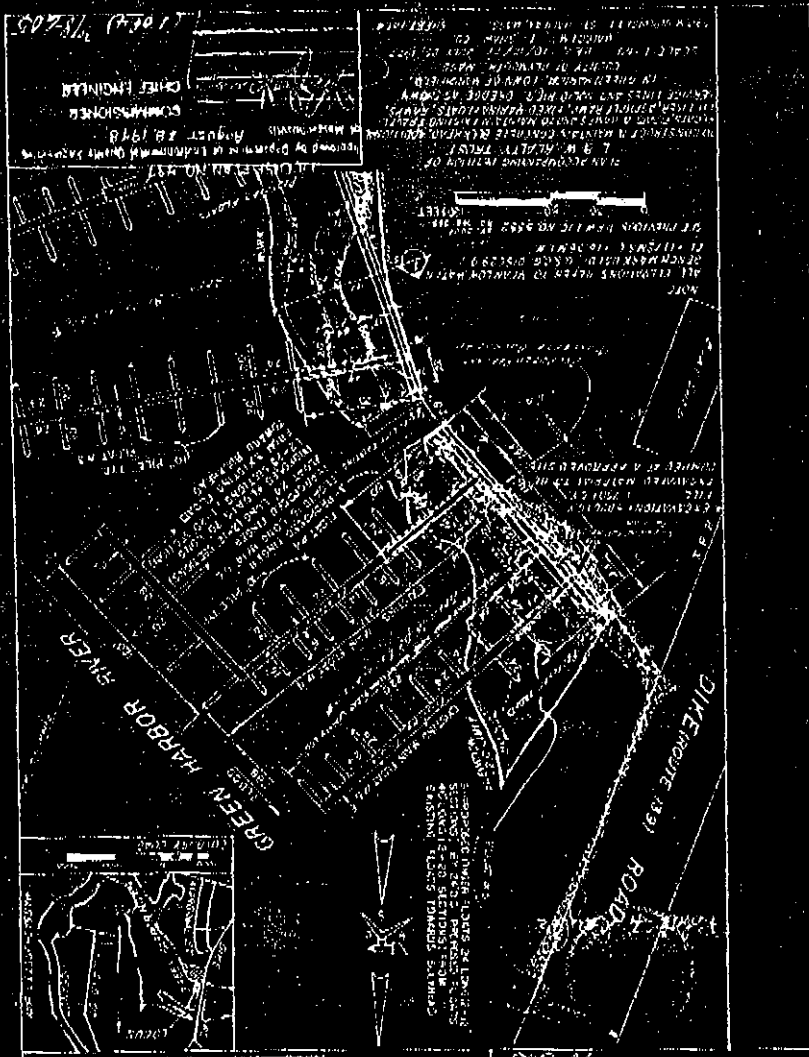
ME 4-0-78

18-605



18-605

18-605



I certify that the plan conforms with
 the rules and regulations of the
 Board of Health and Sanitation
 of the City of Portland, Oregon.
 Registered Land Surveyor
 [Signature]
 [Seal of the Board of Health and Sanitation, City of Portland, Oregon]

78685
 4-2-18

Approved by Department of Engineering and Surveying
 August 28 1918
 COMMISSIONER
 CHIEF ENGINEER

This is a preliminary plan of
 a subdivision of land in the
 City of Portland, Oregon, and
 is subject to the approval of
 the Board of Health and Sanitation
 of the City of Portland, Oregon.
 The plan is filed for public
 inspection in the office of the
 Chief Engineer of the City of
 Portland, Oregon, and is open
 for a period of thirty days
 for the purpose of receiving
 objections thereto.

10
 15

Commonwealth of Massachusetts
 Executive Office of Environmental Affairs
**Department of
 Environmental Protection**



William F. Weld
 Governor
 Daniel S. Greenbaum
 Commissioner

PERMIT NO. 221

Name and Address of Permittee:

Marina Harbor Corporation
 239 Dike Road
 Green Harbor, MA 02041

ISSUED: November 20, 1991
 EXPIRES: November 20, 2001

Permission is hereby given by the Department of Environmental Protection to dredge: By hydraulic method approximately 2500 cubic yards of subaqueous material from the Green Harbor marina basin section of the Green Harbor River. The dredged material will be drained at an upland holding area of the marina property then deposited on another upland portion of the marina property located at 239 Dike Street, Marshfield, MA.

All work authorized herein shall be in the location shown and to the dimensions indicated in the permit plan (s) titled: Plan accompanying petition of Marina Harbor Corporation for maintenance dredging in Green Harbor River Marshfield, September 1990, Rev. Aug. 31, 1991.

STANDARD WATERWAYS PERMIT CONDITIONS

1. Acceptance of this Waterways Permit shall constitute and agreement by the Permittee to conform to all terms and conditions stated herein.
2. The Waterways Permit is issued upon the express condition that any and all other applicable authorizations necessitated due to the provisions hereof shall be secured by the Permittee prior to the commencement of any activity authorized pursuant to this Permit.
3. This Waterways Permit shall be revocable by the Department for noncompliance with the terms and conditions set forth herein. This Permit may be revoked after the Department has given written notice of the alleged noncompliance to the Permittee, or his agent, and those persons who have filed a written request for such notice with the Department and afforded them a reasonable opportunity to correct said noncompliance. Failure to correct said noncompliance after the issuance of a written notice by the Department shall render this Waterways Permit void.

2 of 1

4. This Waterways Permit is issued subject to all applicable federal, state, county, and municipal laws, ordinances, by-laws, and regulations including but not limited to a valid final order of Conditions issued pursuant to the Wetlands Protection Act, G.L. Chapter 131, s.40. In particular, this issuance is subject to the provisions of Sections 52 to 56, inclusive, of Chapter 91 of the General Laws, which provide, in part, that the transportation and dumping of the dredged material shall be done under the supervision of the Department, and that the Permittee shall be liable to pay the cost of said supervision whenever the owner of the dredge or excavating machine fails to pay for the same within ten (10) days after notification in writing from the Treasurer of the Commonwealth that the same is due.
5. This Waterways Permit is issued upon the express condition that the dredging and transport and disposal of dredged material shall be in strict conformance with all applicable requirements and authorizations of the DEP, Division of Water Pollution Control.
6. All subsequent maintenance dredging and transport and disposal of this dredged material during the term of this Permit shall conform to all standards and conditions applied to the original dredging operation performed under this Permit.
7. After completion of the work hereby authorized, the Permittee shall furnish, to the Department, a suitable plan showing the depths at mean low water over the area dredged. The dredging under this Permit shall be so conducted as to cause no unnecessary obstruction of the free passage of vessels. In doing the dredging authorized, care shall be taken to cause no shoaling. If, however, any shoaling is caused, the Permittee shall, at his expense, remove the shoal areas. The Permittee shall pay all costs of supervision, and if at any time the Department deems necessary a survey or surveys of the area dredged, the Permittee shall pay all costs associated with such work. Nothing in this Permit shall be so construed as to impair the legal rights of any persons, or authorize dredging on land not owned by the Permittee without consent of the owner(s) of such property.
8. The Permittee shall assume and pay all claims and demands arising in any manner from the work authorized herein, and shall save harmless and indemnify the Commonwealth of Massachusetts, its officers, employees, and agents from all claims, audits, damages, costs and expenses incurred by reason thereof.
9. The Permittee shall, at least three days before commencing any place of dredging in the tide water, give written notice to the Department of the location and amount of the proposed work, and the time at which it is expected.

Section Chief, Waterways Regulation Program

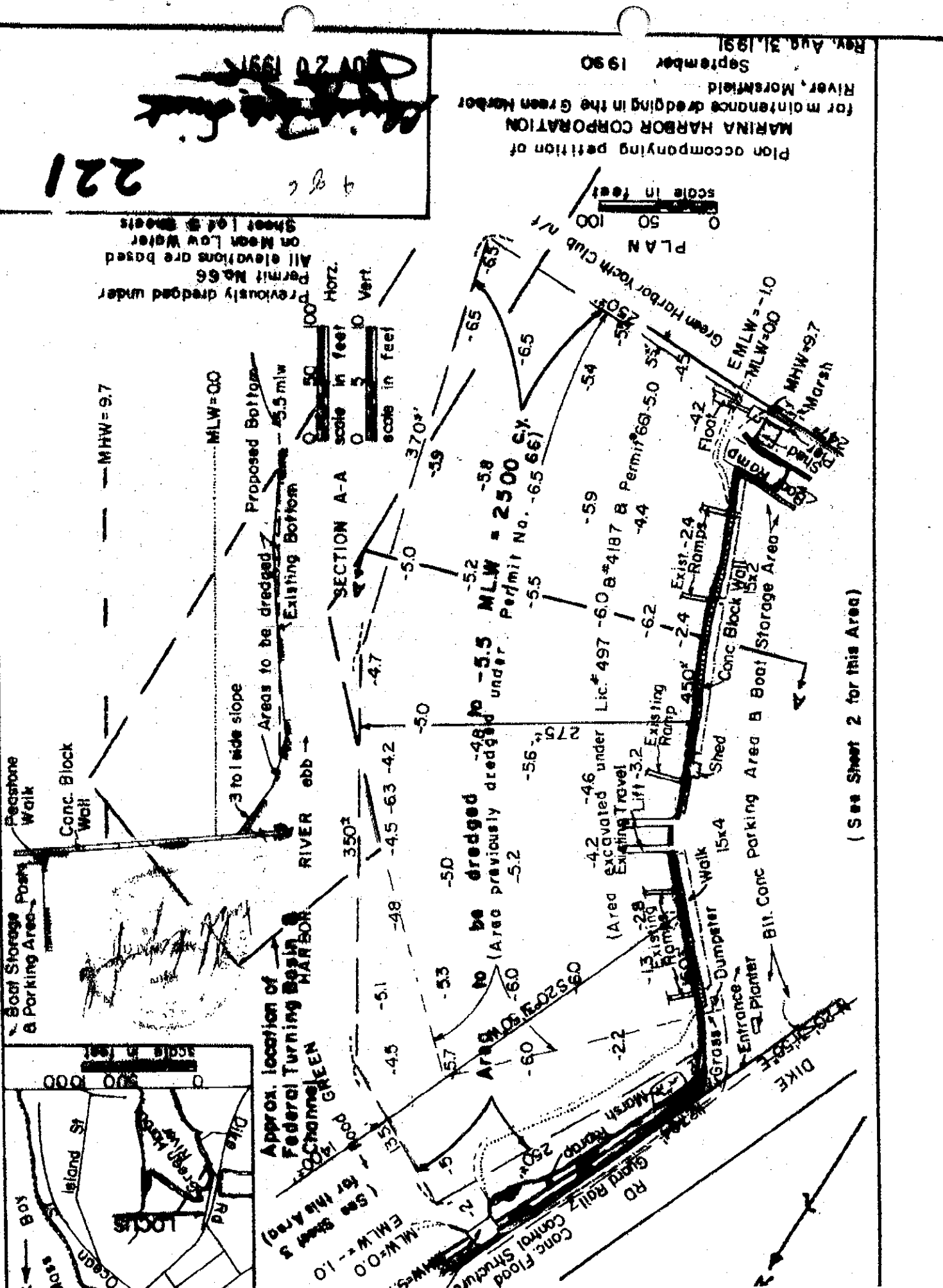
Director, Division of Wetlands and Waterways Regulation

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Dredging is authorized to a depth of 5.5 feet below Mean Low Water and may be maintained to a depth of 5.5 feet below Mean Low Water for ten years from the date of this permit.

SPECIAL WATERWAYS PERMIT CONDITIONS

10. Whosoever violates any provision of this permit shall be subject to a fine of \$25,000 per day for each day such violation occurs or continues, or by imprisonment for not more than one year, or both such fine and imprisonment; or shall be subject to civil penalty not to exceed \$25,000 per day for each such violation occurs or continue.



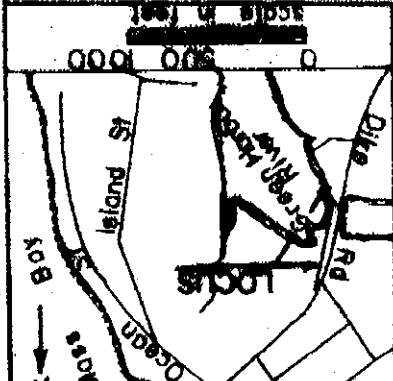
PLAN OCCOMPANYING PETITION OF
 MARINA HARBOR CORPORATION
 FOR MAINTENANCE DREDGING IN THE GREEN HARBOR
 RIVER, MORSFIELD
 September 1930
 Rev. Aug. 31, 1931

221
 4 9/2
 Permit No. 66
 All elevations are based
 on Mean Low Water
 Sheel Lot 3 Sheets
 Previously dredged under
 Permit No. 66
 on Mean Low Water
 DO NOT SCALE

Areas to be dredged
 Proposed Bottom
 Existing Bottom
 3 to 1 side slope
 MLW=0.0
 MHW=9.7
 RIVER

SECTION A-A
 350' -4.5 -48 -50 -52 -56 -59 -62 -65 -65
 275' -4.2 -4.7 -5.0 -5.5 -5.8 -6.0 -6.2 -6.4 -6.5
 450' -2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -2.4
 15x4
 Conc. Block Wall
 Entrance
 Dumper
 Walk
 Shed
 Existing Ramp
 Lic. # 497 -6.0 B*4187 B Permis 69-50
 EMLW=0.0
 MLW=0.0
 MHW=9.7
 Marsh

(See Sheet 2 for this Area)



Handwritten signature

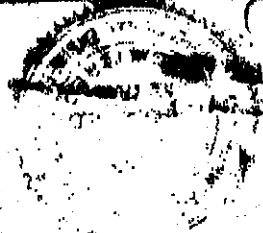
221

5 PLAN

Scale in feet
0 10 20 30 60

Sheet 2 of 3 Sheets
Elevation are based
on Mean Low Water

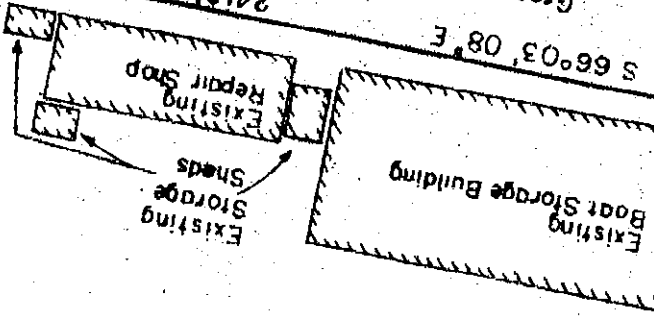
Aug. 31, 1991



Green Harbor Yacht Club n/t
Dike Rd
Marshfield Md

N 88° 47' 12" E
247'

S 66° 03' 08" E



R=239512

A=1981'

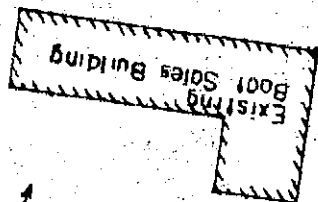
DIKE

(Rise 139)

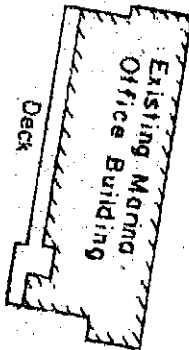
ROAD

N 20° 31' 50" E

1127.64



Entrance

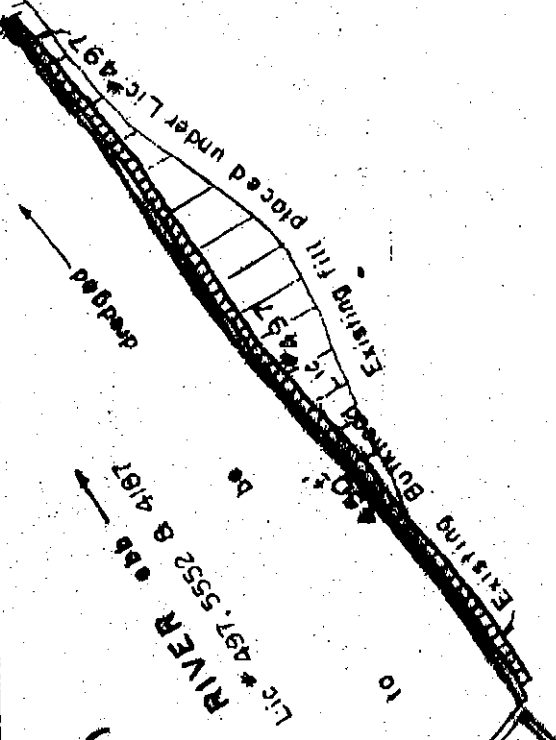


Existing Manng
Office Building

Deck

Existing
Bit Conc
Parking &

Winter Storage Area
Lic*5552, 4187 & 497



Existing
Boat Ramp
Lic*5552
Edge of
Pavement

Existing fill placed under Lic*497

Existing Boat Ramp Lic*497

Area of Existing Lift Lic*5552
Existing Piers, Rafts & Ramps Lic*497, 5552 & 4187
to
HARBOR RIVER #88
#89
#86
(See Sheet 1 for this Area)

Existing fill placed
under Lic*497

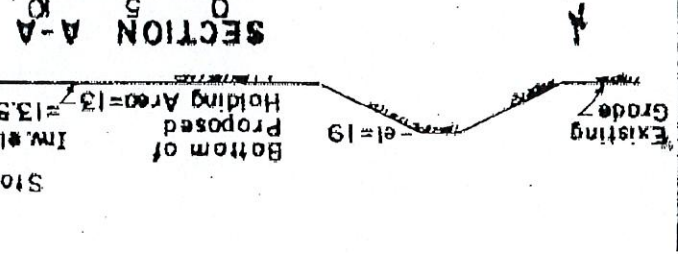
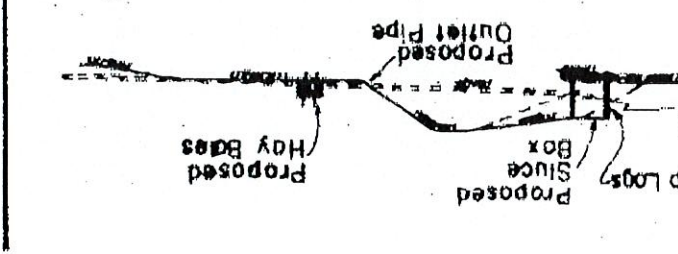
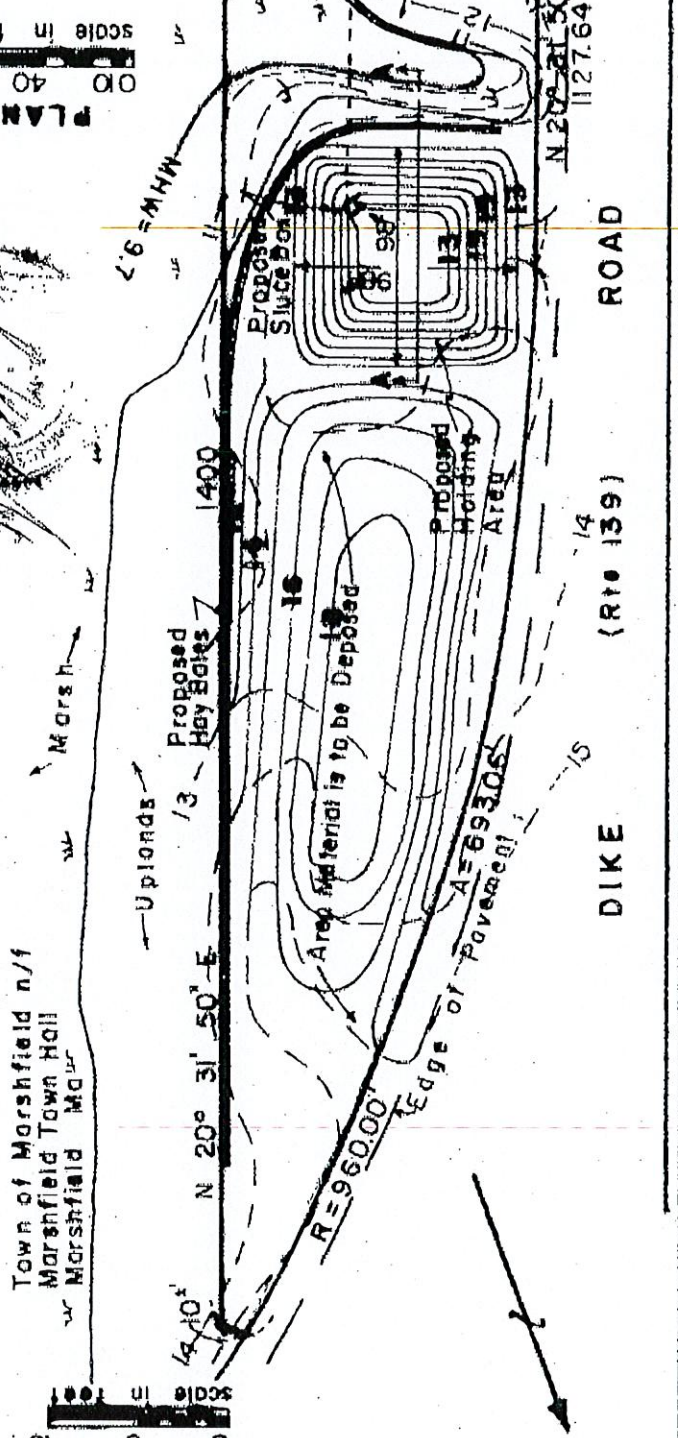
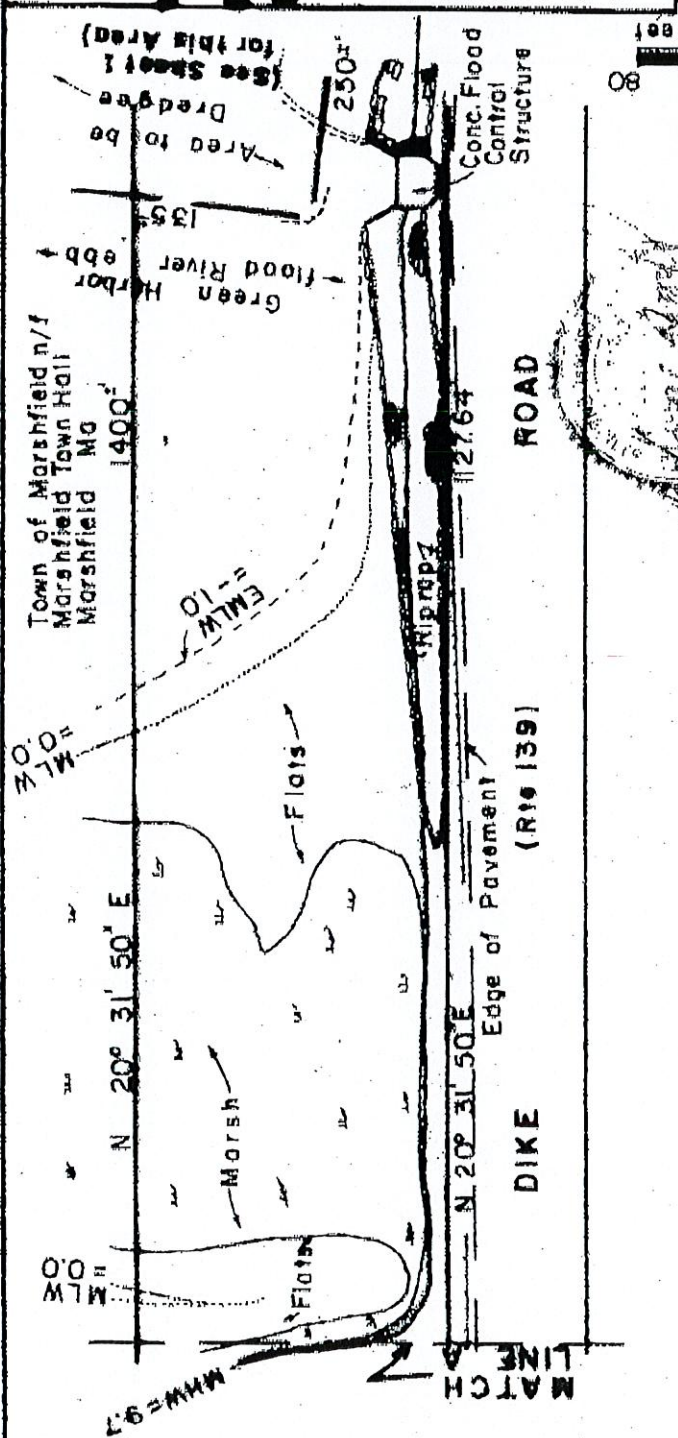
N 20° 31' 50" W
1400.5'

(See Sheet 3
for this Area)
MLW
230'



ENGINEERING PERMIT NO. 227
 Issued by Department of Environmental Management
 Date: 10/20/1991
 SECTION

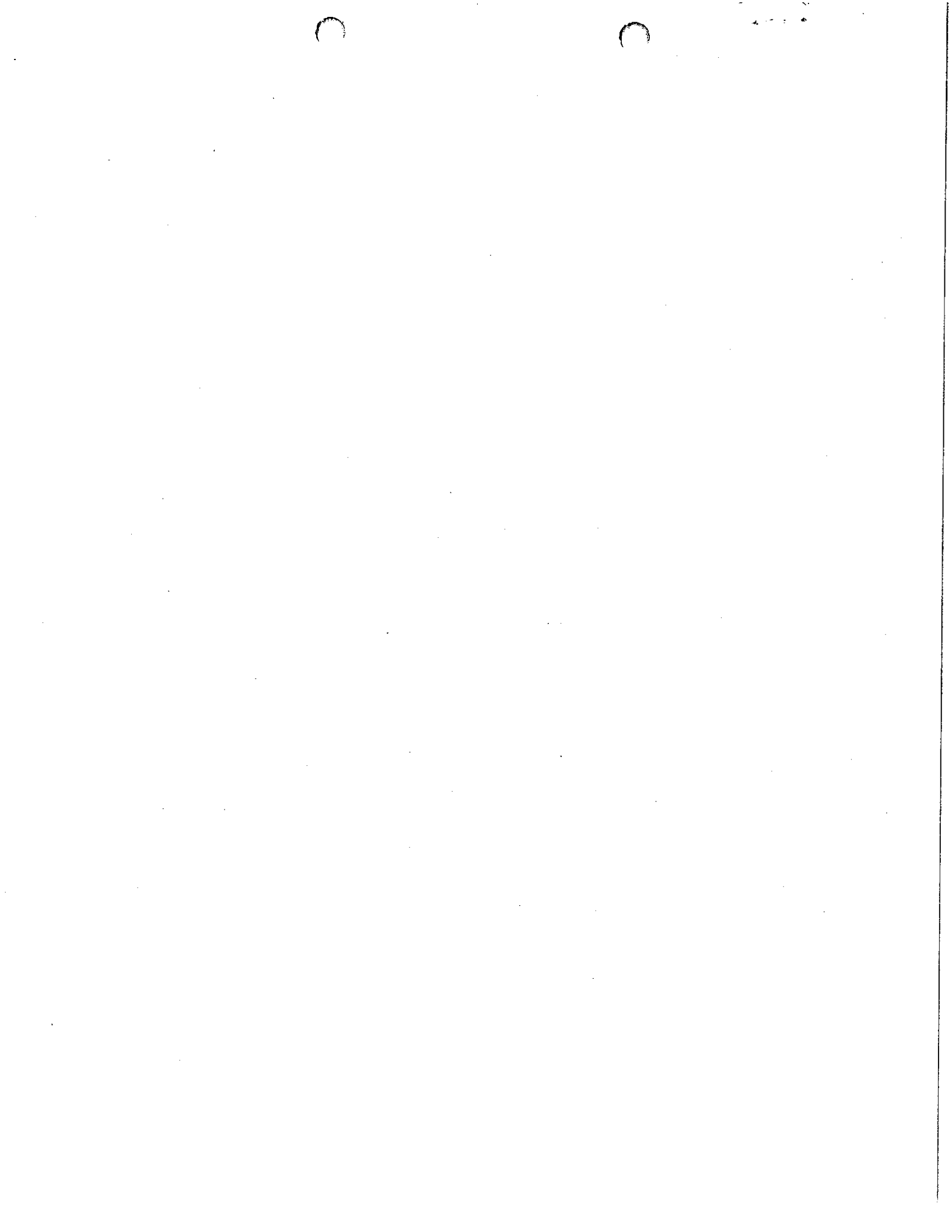
Sheet 3 of 3 Sheets
 Elevation are based
 on Mean Low Water
 Aug 31, 1991



Proposed Sluice Box
 Proposed Hay Bales
 Proposed Holding Area
 Proposed Outlet Pipe
 el. 19
 el. 13.5
 el. 13
 Bottom of Proposed Holding Area

Stop Logs
 Proposed Sluice Box
 Proposed Holding Area
 el. 19
 el. 13.5
 el. 13
 Bottom of Proposed Holding Area

Town of Marshfield n/f
 Marshfield Town Hall
 Marshfield Ma



January 8, 2004



Mr. David Hill
Commonwealth of Massachusetts
Department of Environmental Protection
Wetlands and Waterways Section
20 Riverside Drive
Lakeville, Massachusetts 02347

Re: File No. W 03-0934
Maintenance Dredging
Green Harbor River
Marshfield

Dear Mr. Hill:

I am enclosing copies of the certified mail notices and a copy of the material I have sent to the abutters and the Agencies that you have requested in your letter of December 31, 2003. Also enclosed is the 'Joint Public Notice of 401 Water Quality Certification and Waterways License Application No. W03-0934' as it was published in the Marshfield Mariner Newspaper.

Once we receive the additional materials you requested in your letter, we will forward them to you.

Very truly yours,

Daniel Vigneau, Treasurer
Marina Harbor II Corporation
d/b/a/ Green Harbor River
239 Dike Rd. P.O. Box 338
Green Harbor, MA 02041
(781) 837-1181

Enclosures

January 8, 2004

Dear Sir or Madam:

At the request of DEP's Chapter 91 License Program and DEP's 401 Water Quality Program, I am enclosing a Joint Notification and Plans, five (5) of 5 Sheets, one of one Sheet, showing the proposed dredging at the Green Harbor Marina, at the Green Harbor River, Green Harbor, Marshfield.

This may be the second or third notification of this same project that you have received. The first would have been under the requirements of another State Program, Chapter 131 Section 40 and the second would have been under the requirements of State Program 301 CMR 11.00.

Very truly yours,

Daniel Vigneau, Treasurer
Marina Harbor II Corporation
d/b/a/ Green Harbor River
239 Dike Rd. P.O. Box 338
Green Harbor, MA 02041
(781) 837-1181

Enclosures

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Joint 401 WQC and Chapter 91 Public Notice

Notification Date: January 16, 2004

Pursuant to 33 U.S.C. 1341 and M.G.L. c. 21 §43, notice is given of a 401 Water Quality Certification (WQC) Application and M.G.L. Chapter 91, 310 CMR 9.00 Waterways Application by the Marina Harbor II Corp., d/b/a Green Harbor Marina, 239 Dike Road (Rte. 139), Green Harbor, MA, to perform maintenance dredging of approximately 15,100 cubic yards of sediments from the marina berthing basin, in the municipality of Marshfield, in and over flowed tidelands of Green Harbor. The proposed project has been determined to be water-dependent pursuant to 310 CMR 9.12(2)(a). Additional information about this project may be obtained from Marina Harbor II Corporation, P.O. Box 338, Green Harbor, MA 02041, Contact Person: Daniel Vigneau, Treasurer, (781) 837-1181.

Written comments on the 401 WQC must be sent within **twenty-one (21) days of this notice to:**

Department of Environmental Protection
Division of Wetlands and Waterways
1 Winter Street
Boston, MA 02108

Written comments on the Chapter 91 Dredge Permit must be sent within **fifteen, (15) days of this notice to:**

Department of Environmental Protection
Wetlands and Waterways Program
20 Riverside Drive
Lakeville, MA 02347

Any group of ten persons, any aggrieved person, or any governmental body or private organization with a mandate to protect the environment who submits written comments may appeal the Department's Certification and Dredge Permit. Failure to submit written comments before the end of the public comment period may result in the waiver of any right to an adjudicatory hearing.

Pursuant to 310 CMR 9.13(1)(a), the Applicant is also required to concurrently provide this notification, along with a copy of the project site plans submitted with the Waterways License Application, to the appropriate municipal officials, regulatory agencies and abutters to the project for their review and comment (see Notification mailing list attached). The applicant shall send the notice of license or permit application by Certified mail to the attached list and abutters and notify the Department when completed.

⑦
Mailing List: Notice of License Application pursuant to M. G. L. Chapter 91

- ✓ 7 Board of Selectmen, Town of Marshfield
- ✓ 9 Marshfield Planning Board
- ✓ 10 Marshfield Conservation Commission
- ✓ 10 Marshfield Zoning Board
- ✓ 11 Marshfield Harbormaster

- ✓ 12 Coastal Zone Management
- 12 251 Causeway Street, Suite 500
- Boston, MA 02114

- 13 Brenda Harper
- 13 DEP SERO, DWW
- 20 Riverside Drive
- Lakeville, MA 02347

- 14 Pat Huckery
- 14 Division of Fish & Wildlife and Law Enforcement
- Field Headquarters
- 1 Rabbit Hill Road
- Westboro, MA 01581

- 15 Division of Marine Fisheries
- 15 50 A Portside Drive
- Pocasset, MA 02559

- 16 Massachusetts Historical Commission
- 16 22 Morrissey Blvd., Columbia Point
- Boston, MA 02125

Abutters – For Chapter 91 purposes, an abutter is defined as the owner of land that shares, along the waters edge, a common boundary or corner with a project site, as well as the owner of land that lies within 50' across a waterbody from such site. See 310 CMR 9.02.

M07/ 10/ 3/ 1
TOWN OF MARSHFIELD
870 MORaine STREET
MARSHFIELD, MA 02050

M07/ 10/ 1/ 1
TOWN OF MARSHFIELD DAV ✓
D A V
P O BOX 244
BRANT ROCK, MA 02020

M07/ 3/ 1/ 1
TOWN OF MARSHFIELD DPW ✓
870 MORaine STREET
MARSHFIELD, MA 02050

M07/ 1/ 2/ 1
TOWN OF MARSHFIELD RECREATION ✓
870 MORaine STREET
MARSHFIELD, MA 02050

M06/ 8/ 5/A 1
MARINA HARBOR II CORPORATION
PO BOX 338
GREEN HARBOR, MA 02041-0338

M06/ 8/ 4/A 1
GREEN HARBOR YACHT CLUB INC
P O BOX 209
GREEN HARBOR, MA 02041

M06/ 8/ 2/ 1
12 CARESWELL STREET REALTY TR
JAMES H GAFFEY TRUSTEE
P O BOX 11
GREEN HARBOR, MA 02041-0011

M06/ 1/ 11/ 1
TOWN OF MARSHFIELD CONS COMM ✓
870 MORaine STREET
MARSHFIELD, MA 02050

M06/ 1/ 10/ 1
TOWN OF MARSHFIELD CONS COMM
870 MORaine STREET
MARSHFIELD, MA 02050

M06/ 1/ 9/ 1
TOWN OF MARSHFIELD CONS COMM
870 MORaine STREET
MARSHFIELD, MA 02050



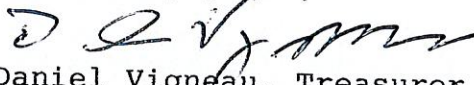
January 8, 2004

Dear Sir or Madam:

At the request of DEP's Chapter 91 License Program and DEP's 401 Water Quality Program, I am enclosing a Joint Notification and Plans, five (5) of 5 Sheets, one of one Sheet, showing the proposed dredging at the Green Harbor Marina, at the Green Harbor River, Green Harbor, Marshfield.

This may be the second or third notification of this same project that you have received. The first would have been under the requirements of another State Program, Chapter 131 Section 40 and the second would have been under the requirements of State Program 301 CMR 11.00.

Very truly yours,


Daniel Vigneau, Treasurer
Marina Harbor II Corporation
d/b/a/ Green Harbor River
239 Dike Rd. P.O. Box 338
Green Harbor, MA 02041
(781) 837-1181

Enclosures

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Joint 401 WQC and Chapter 91 Public Notice

Notification Date: January 16, 2004

Pursuant to 33 U.S.C. 1341 and M.G.L. c. 21 §43, notice is given of a 401 Water Quality Certification (WQC) Application and M.G.L. Chapter 91, 310 CMR 9.00 Waterways Application by the Marina Harbor II Corp., d/b/a Green Harbor Marina, 239 Dike Road (Rte. 139), Green Harbor, MA, to perform maintenance dredging of approximately 15,100 cubic yards of sediments from the marina berthing basin, in the municipality of Marshfield, in and over flowed tidelands of Green Harbor. The proposed project has been determined to be water-dependent pursuant to 310 CMR 9.12(2)(a). Additional information about this project may be obtained from Marina Harbor II Corporation, P.O. Box 338, Green Harbor, MA 02041, Contact Person: Daniel Vigneau, Treasurer, (781) 837-1181.

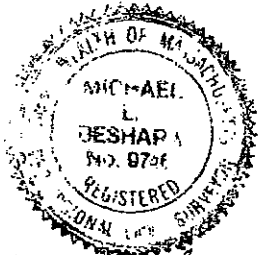
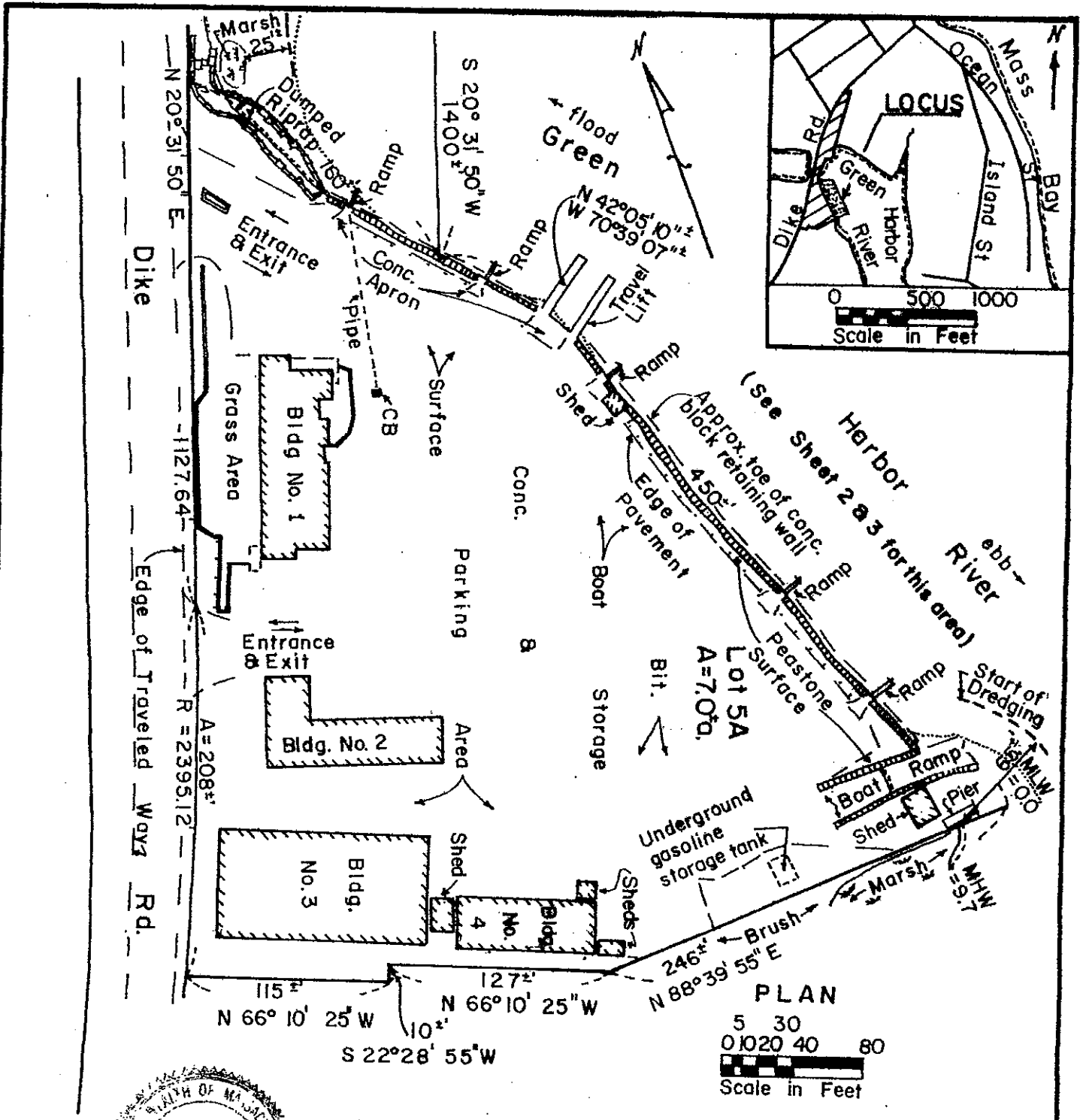
Written comments on the 401 WQC must be sent within **twenty-one (21) days of this notice to:**

Department of Environmental Protection
Division of Wetlands and Waterways
1 Winter Street
Boston, MA 02108

Written comments on the Chapter 91 Dredge Permit must be sent within **fifteen, (15) days of this notice to:**

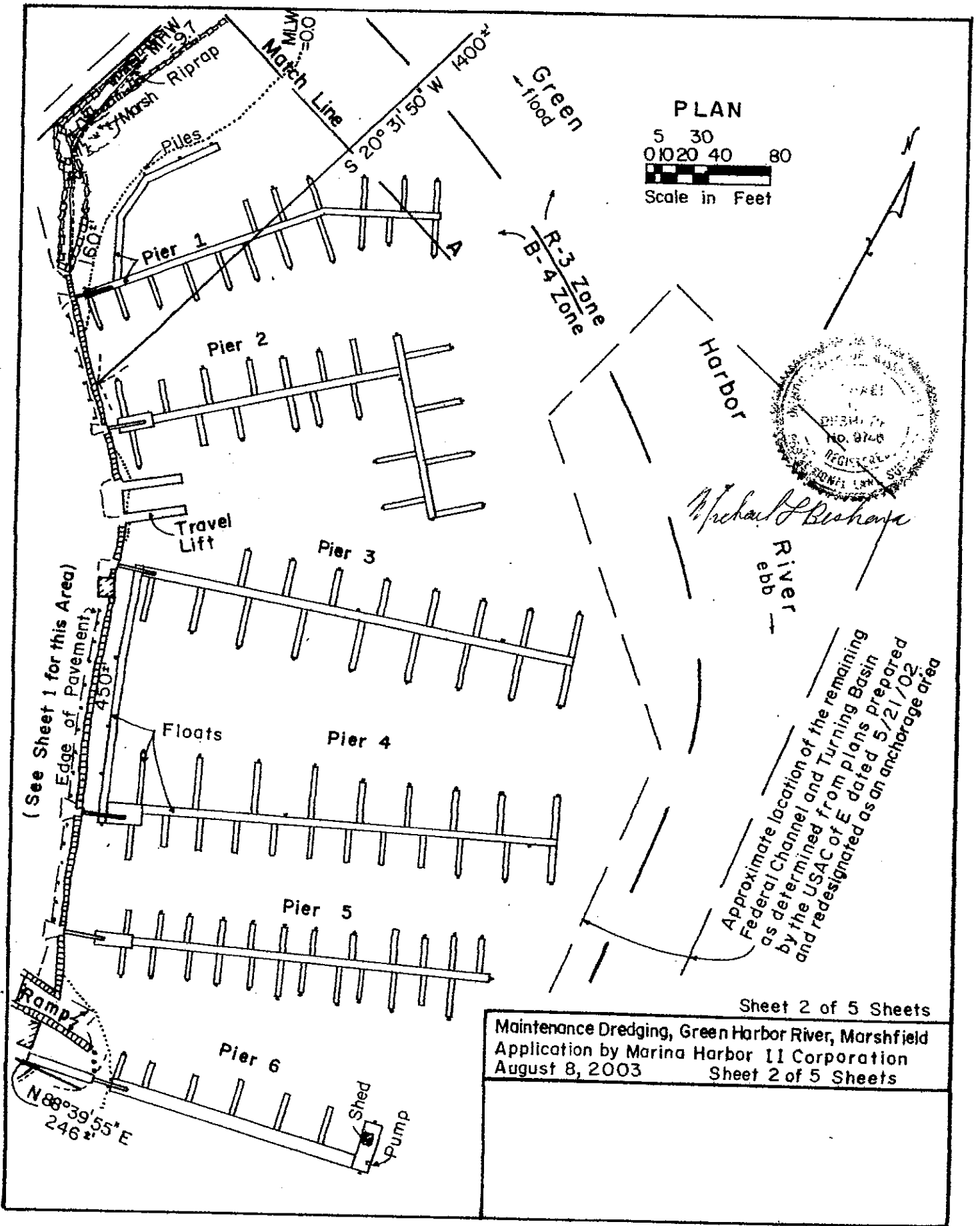
Department of Environmental Protection
Wetlands and Waterways Program
20 Riverside Drive
Lakeville, MA 02347

Any group of ten persons, any aggrieved person, or any governmental body or private organization with a mandate to protect the environment who submits written comments may appeal the Department's Certification and Dredge Permit. Failure to submit written comments before the end of the public comment period may result in the waiver of any right to an adjudicatory hearing.

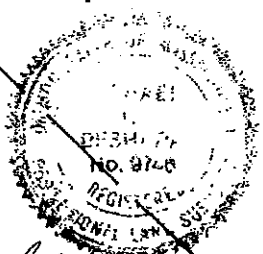


Michael L. Deshara

Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 1 of 5 Sheets



PLAN
 5 30
 0 10 20 40 80
 Scale in Feet

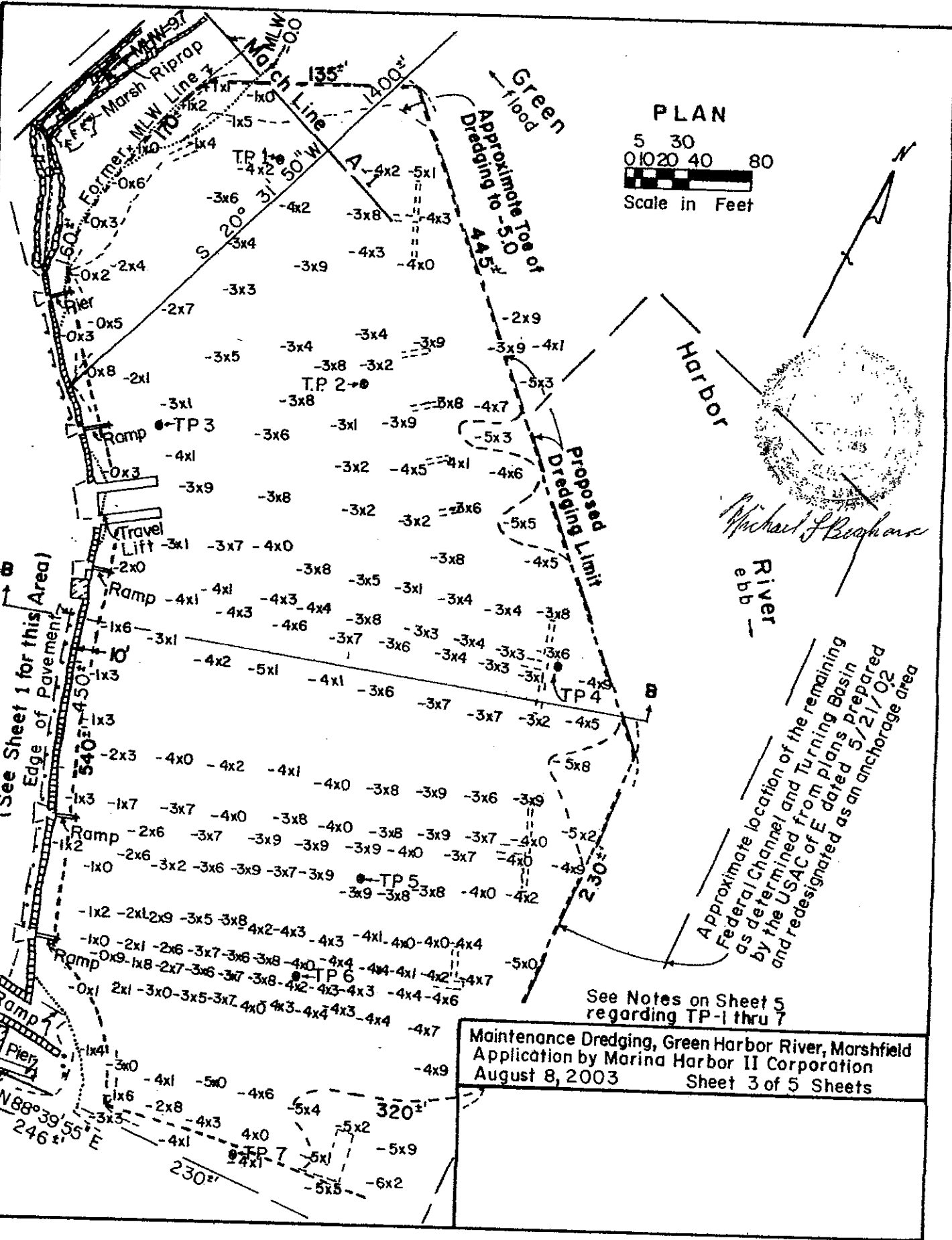
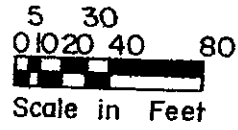


Michael J. Beshara

Approximate location of the remaining Federal Channel and Turning Basin as determined from plans prepared by the USAC of E. dated 5/21/02 and redesignated as an anchorage area

Sheet 2 of 5 Sheets
 Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003
 Sheet 2 of 5 Sheets

PLAN



Michael J. Buchanan

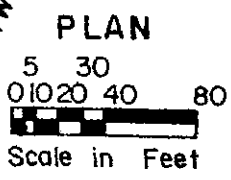
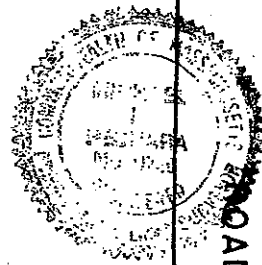
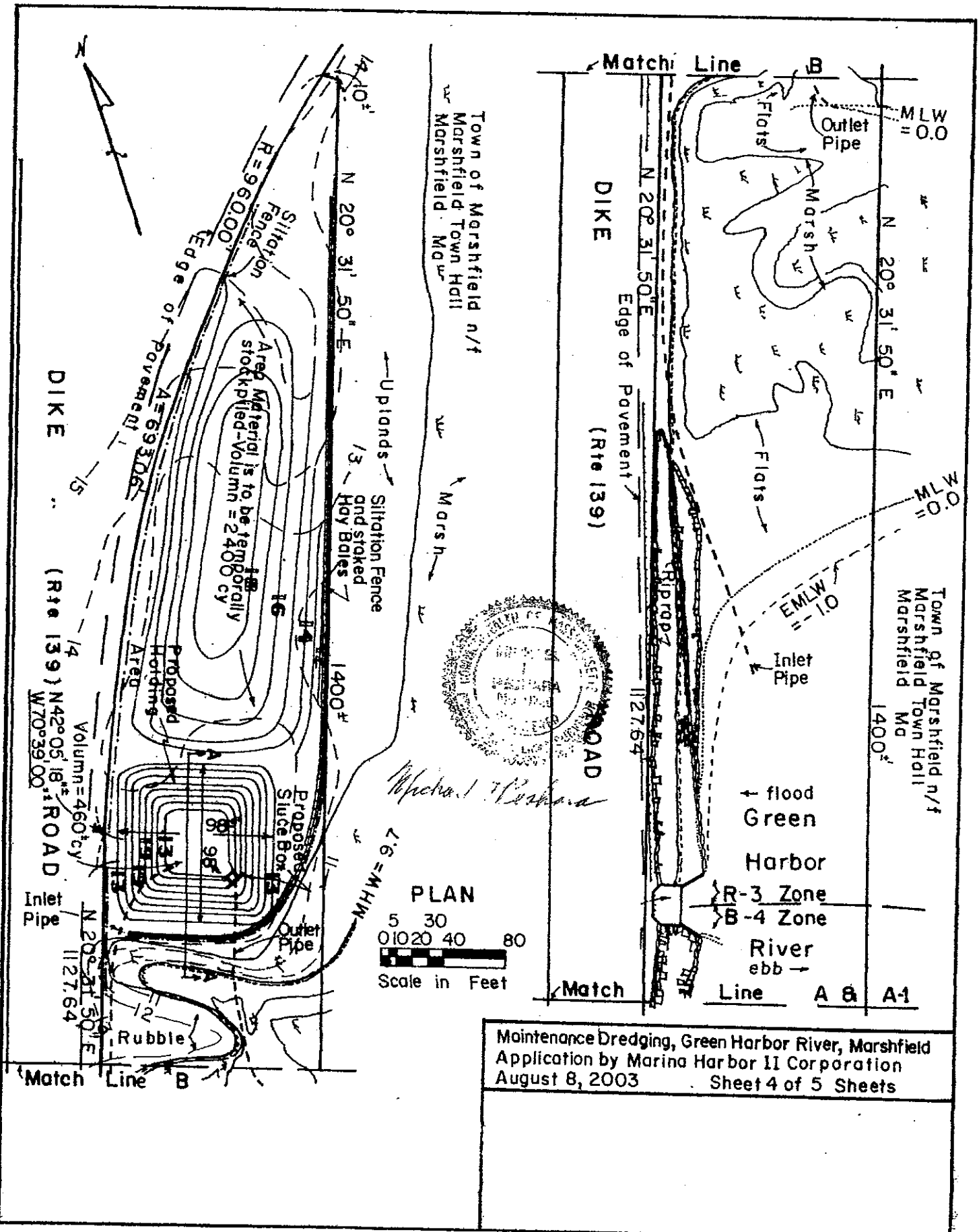
Approximate location of the remaining Federal Channel and Turning Basin as determined from plans prepared by the USAC of E dated 5/21/02 and redesignated as an anchorage area

See Notes on Sheet 5 regarding TP-1 thru 7

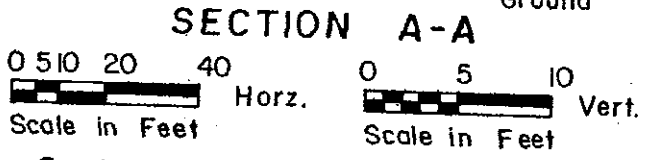
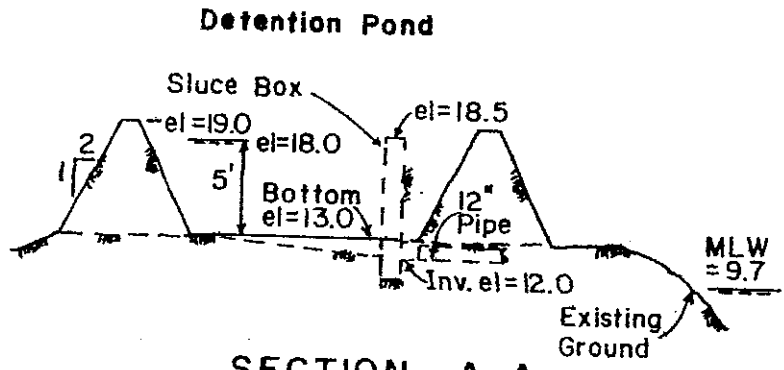
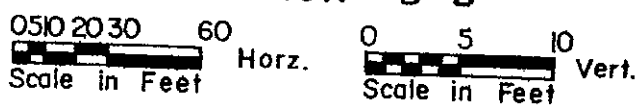
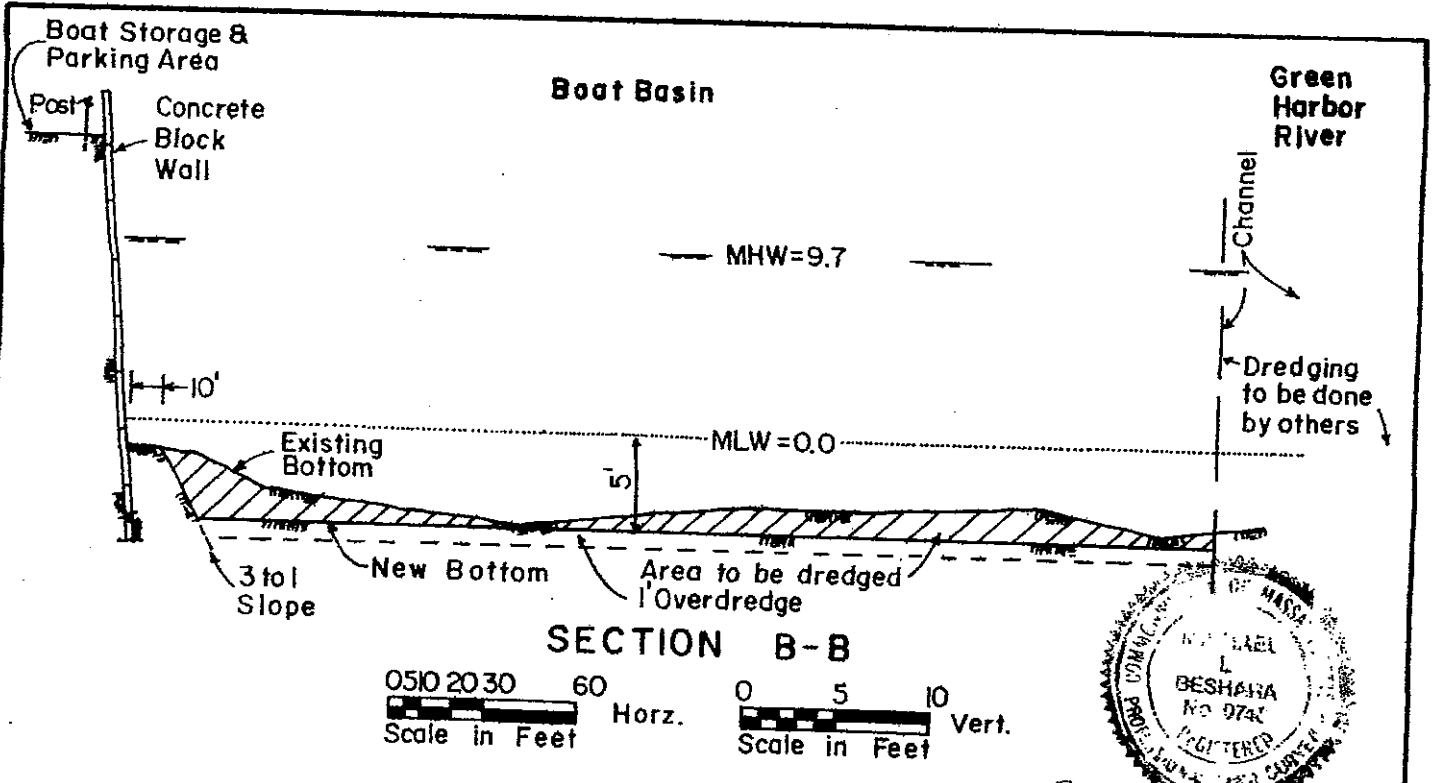
Maintenance Dredging, Green Harbor River, Marshfield
Application by Marina Harbor II Corporation
August 8, 2003 Sheet 3 of 5 Sheets

(See Sheet 1 for this Area)
Edge of Pavement

TP 1
TP 2
TP 3
TP 4
TP 5
TP 6
TP 7
N 88° 39' 55" E
246'
N 20° 31' 50" W
135'
1400'
320'
230'



Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 4 of 5 Sheets



Notes: *Michael L. Beshara*
 These plans have been prepared for permit purposes for the dredging and disposal

The property lines shown on these plans are not the result of an actual on the ground survey. The lines of ownership have been compiled from plans and deeds of record.

The dredging area is located in A-2, 100 year FEMA Flood Plan els=10 & 11, NGVD, (14.8 & 15.8 mlw) and the detention area is located in the A-2, el=10, zone.

Elevations are based on Mean Low Water

Approximately 8,500[±]cy of material is to be dredged to -5 mlw

Dredging to be done by either mechanical or hydraulic method

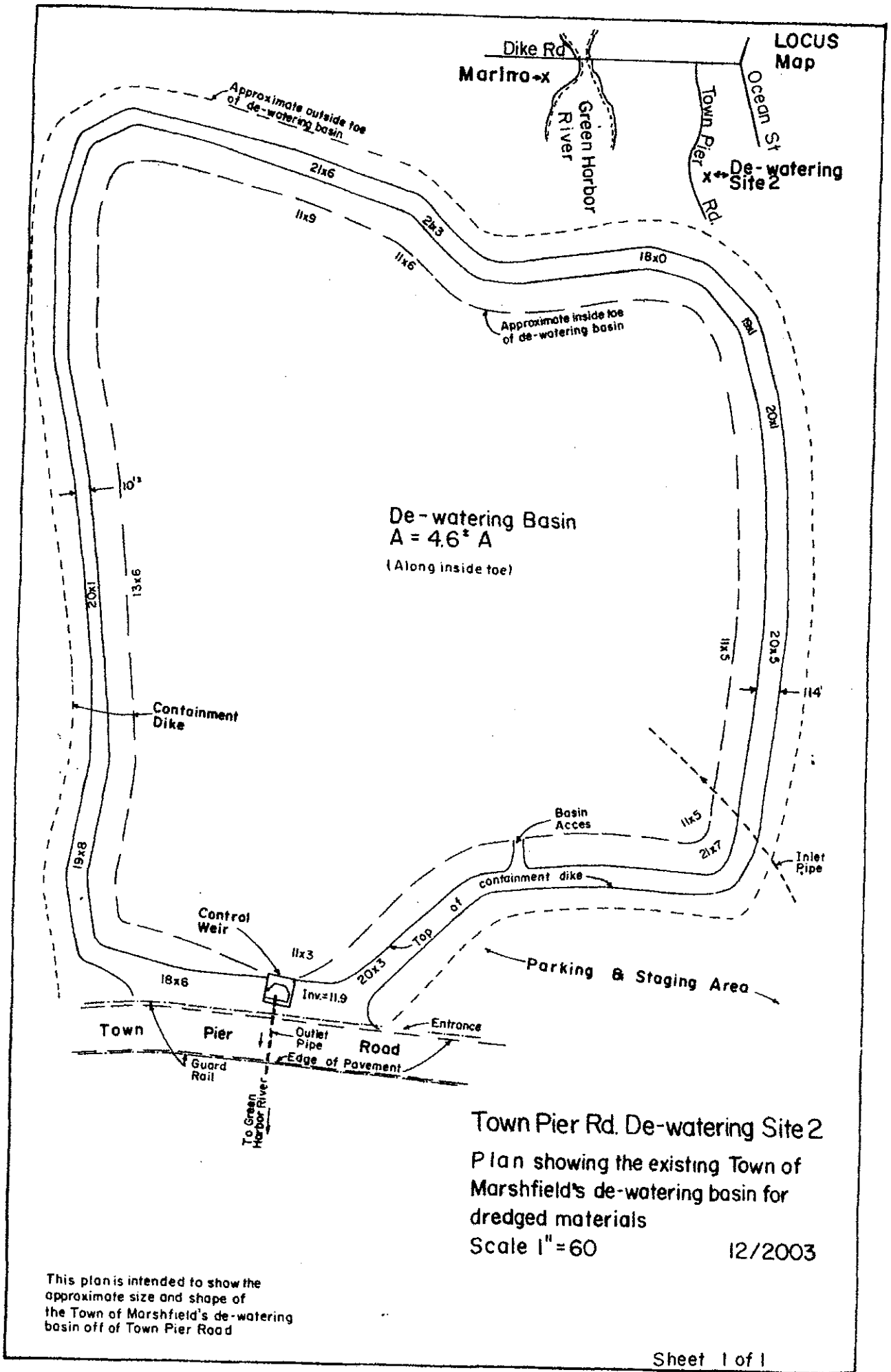
Notes Cont.

Test Samples, TP-1 thru 7, as shown on Sheet 4 were taken on 7/16/03. Results are attached, 14 pages.

Dredging envelope area = 4.1 acres
 Dredging volume to -5.0 mlw = 8,500[±]cy
 Dredging volume to -6.0 mlw = 15,100[±]cy to a 1' overdredge depth

Marina References
 Licenses Nos. 497, 4187 & 5552
 Permit Nos. 66 & 221

Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 5 of 5 Sheets



Town Pier Rd. De-watering Site 2

Plan showing the existing Town of Marshfield's de-watering basin for dredged materials

Scale 1" = 60

12/2003

This plan is intended to show the approximate size and shape of the Town of Marshfield's de-watering basin off of Town Pier Road



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST REGIONAL OFFICE
20 RIVERSIDE DRIVE, LAKEVILLE, MA 02347 508-946-2700

MITT ROMNEY
Governor

KERRY HEALEY
Lieutenant Governor

ELLEN ROY HERZFELDER
Secretary

ROBERT W. GOLLEDGE, Jr.
Commissioner

December 31, 2003

Marina Harbor II Corporation
Attn: Daniel Vigneau, Treasurer
P.O. Box 338
Green Harbor, MA 02041

**Re: JOINT PUBLIC NOTICE OF 401 WATER QUALITY CERTIFICATION AND
WATERWAYS APPLICATION NO. W03-0934**
Green Harbor, Marshfield, Plymouth County

Dear Sir or Madam:

The Waterways Regulation Program (WRP) has received the referenced application requesting authorization to perform certain activities in state waterways pursuant to M.G.L. Chapter 91, the Public Waterfront Act and its regulations at 310 CMR 9.0 etc. The WRP has assigned this application filing with the above-referenced Waterways License application number. **IT IS IMPERATIVE THAT YOU REFER TO THIS APPLICATION NUMBER WHENEVER YOU SUBMIT OR REQUEST INFORMATION FOR THIS FILE.** Upon review of this application, the WRP has made a determination that this project is a water-dependent use project.

Attached is the WRP's Public Notice form for this application. The Applicant is required to publish this notice, at his/her expense, in one or more newspapers having circulation in the area affected by the proposed activity. This notice must be published in the local newspaper(s) for at least one day on or before the Notification Date. The required public comment period shall begin on this designated Notification Date. The Applicant is required to submit proof of publication to the WRP by sending a copy of the newspaper notice showing the date of publication or a copy of the newspaper notice and a letter from the newspaper indicating the date the public notice was published.

This information is available in alternate format. Call Debra Doherty, ADA Coordinator at 617-292-5565. TDD Service - 1-800-298-2207.

DEP on the World Wide Web: <http://www.mass.gov/dep>

Printed on Recycled Paper

Pursuant to 310 CMR 9.13(1)(a), the Applicant is also required to concurrently provide this notification, along with a copy of the project site plans submitted with the Waterways License Application, to the appropriate municipal officials, regulatory agencies and abutters to the project for their review and comment, by **Certified mail**, (see Notification mailing list attached). For Chapter 91 purposes, an abutter is defined as the owner of land that shares a common boundary or corner with a project site at the water's edge, as well as the owner of land that lies within 50' across a waterbody from such site, see; 310 CMR 9.02. The WRP will publish the Public Notice in *The Environmental Monitor*, if required.

Lastly, the WRP cannot complete its review of this application until the following information/document(s) checked below have been submitted:

- Proof of publication of the Public Notice
- Receipt of the Municipal Zoning Certification
- Receipt of the Municipal Planning Board Notification Form
- Receipt of a valid Wetlands Order of Conditions
- Receipt of a valid DEP Water Quality Certification
- Completion of the MEPA review process
- Plans according to the specifications of Appendix A of the Waterways Application.

NOTE: Final Mylar Project Site Plans will be required upon notice from the Department and prior to issuance of the Chapter 91 License.

- Other: A Chapter 91 License Application shall be submitted for any floating docks or structures not authorized by previous licenses.

Should you have any questions, please contact me at (508) 946-2730. Thank you.

Sincerely,

David E. Hill

David E. Hill
Environmental Engineer
Waterways Regulation Program

Pursuant to 310 CMR 9.13(1)(a), the Applicant is also required to concurrently provide this notification, along with a copy of the project site plans submitted with the Waterways License Application, to the appropriate municipal officials, regulatory agencies and abutters to the project for their review and comment (see Notification mailing list attached). The applicant shall send the notice of license or permit application by Certified mail to the attached list and abutters and notify the Department when completed.

Mailing List: Notice of License Application pursuant to M. G. L. Chapter 91

Board of Selectmen, Town of Marshfield
Marshfield Planning Board
Marshfield Conservation Commission
Marshfield Zoning Board
Marshfield Harbormaster

Coastal Zone Management
251 Causeway Street, Suite 500
Boston, MA 02114

Brenda Harper
DEP SERO, DWW
20 Riverside Drive
Lakeville, MA 02347

Pat Huckery
Division of Fish & Wildlife and Law Enforcement
Field Headquarters
1 Rabbit Hill Road
Westboro, MA 01581

Division of Marine Fisheries
50 A Portside Drive
Pocasset, MA 02559

Massachusetts Historical Commission
22 Morrissey Blvd., Columbia Point
Boston, MA 02125

Abutters – For Chapter 91 purposes, an abutter is defined as the owner of land that shares, along the waters edge, a common boundary or corner with a project site, as well as the owner of land that lies within 50' across a waterbody from such site. See 310 CMR 9.02.

**DEPARTMENT OF ENVIRONMENTAL PROTECTION
Joint 401 WQC and Chapter 91 Public Notice**

Notification Date: January 16, 2004

Pursuant to 33 U.S.C. 1341 and M.G.L. c. 21 §43, notice is given of a 401 Water Quality Certification (WQC) Application and M.G.L. Chapter 91, 310 CMR 9.00 Waterways Application by the Marina Harbor II Corp., d/b/a Green Harbor Marina, 239 Dike Road (Rte. 139), Green Harbor, MA, to perform maintenance dredging of approximately 15,100 cubic yards of sediments from the marina berthing basin, in the municipality of Marshfield, in and over flowed tidelands of Green Harbor. The proposed project has been determined to be water-dependent pursuant to 310 CMR 9.12(2)(a). Additional information about this project may be obtained from Marina Harbor II Corporation, P.O. Box 338, Green Harbor, MA 02041, Contact Person: Daniel Vigneau, Treasurer, (781) 837-1181.

Written comments on the 401 WQC must be sent within **twenty-one (21) days of this notice to:**

Department of Environmental Protection
Division of Wetlands and Waterways
1 Winter Street
Boston, MA 02108

Written comments on the Chapter 91 Dredge Permit must be sent within **fifteen, (15) days of this notice to:**

Department of Environmental Protection
Wetlands and Waterways Program
20 Riverside Drive
Lakeville, MA 02347

Any group of ten persons, any aggrieved person, or any governmental body or private organization with a mandate to protect the environment who submits written comments may appeal the Department's Certification and Dredge Permit. Failure to submit written comments before the end of the public comment period may result in the waiver of any right to an adjudicatory hearing.



MARINA HARBOR II CORPORATION

ROUTE 139 * P.O. BOX 338 * GREEN HARBOR, MASSACHUSETTS 02041

Telephone 781-837-1181 * Fax 781-834-0163

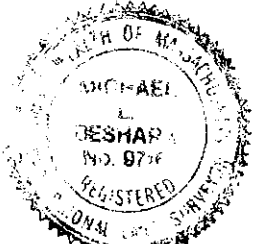
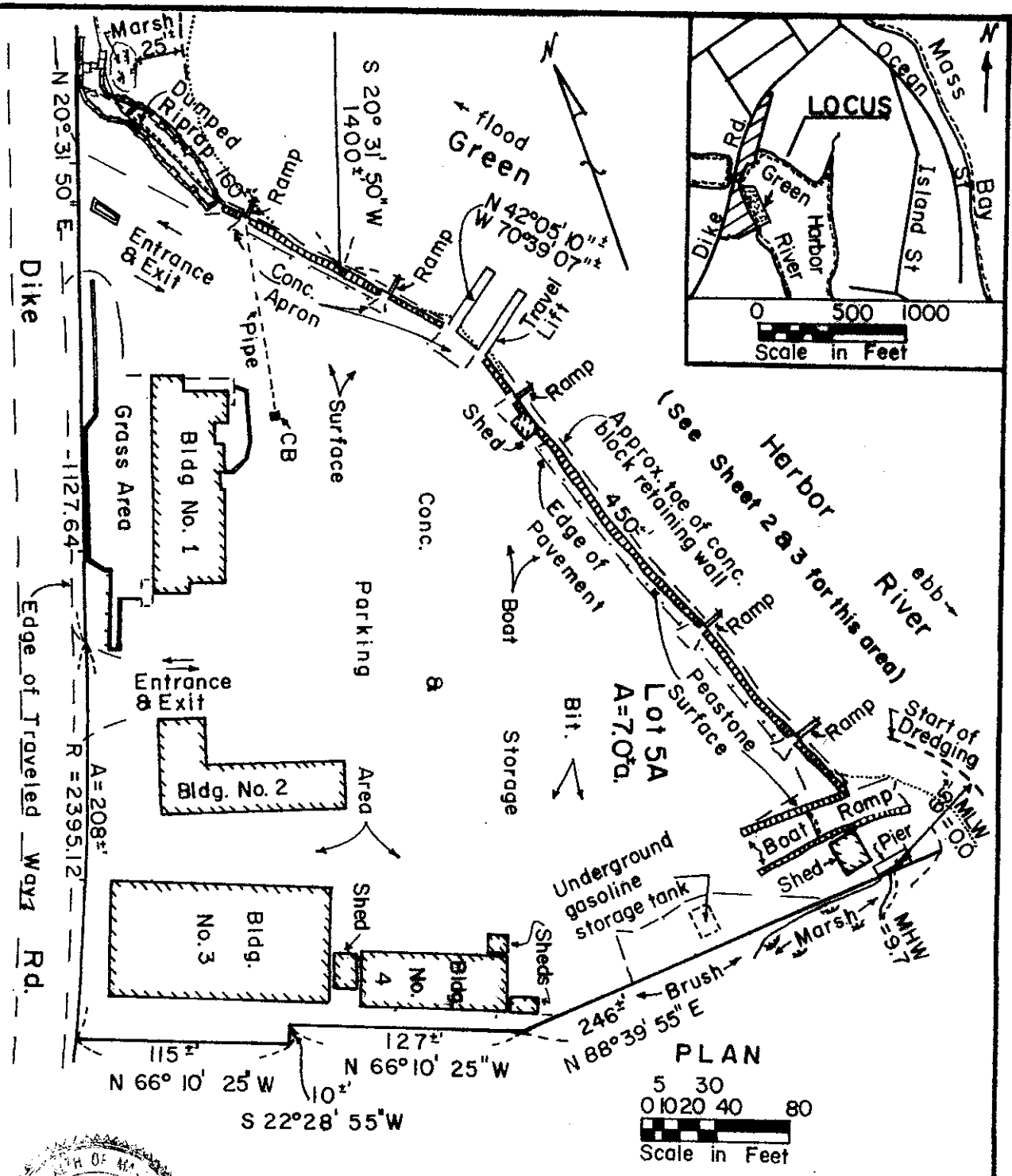
12/10/03

Dave Hill =

As you know we met with MEPA today. It appears we need to do some additional testing, and provide some additional information about the upland disposal sites. Yvonne Unger suggested (if you can) to combine her 401 permitting with the CH 91 advertising notice we are required to publish in the local newspapers.

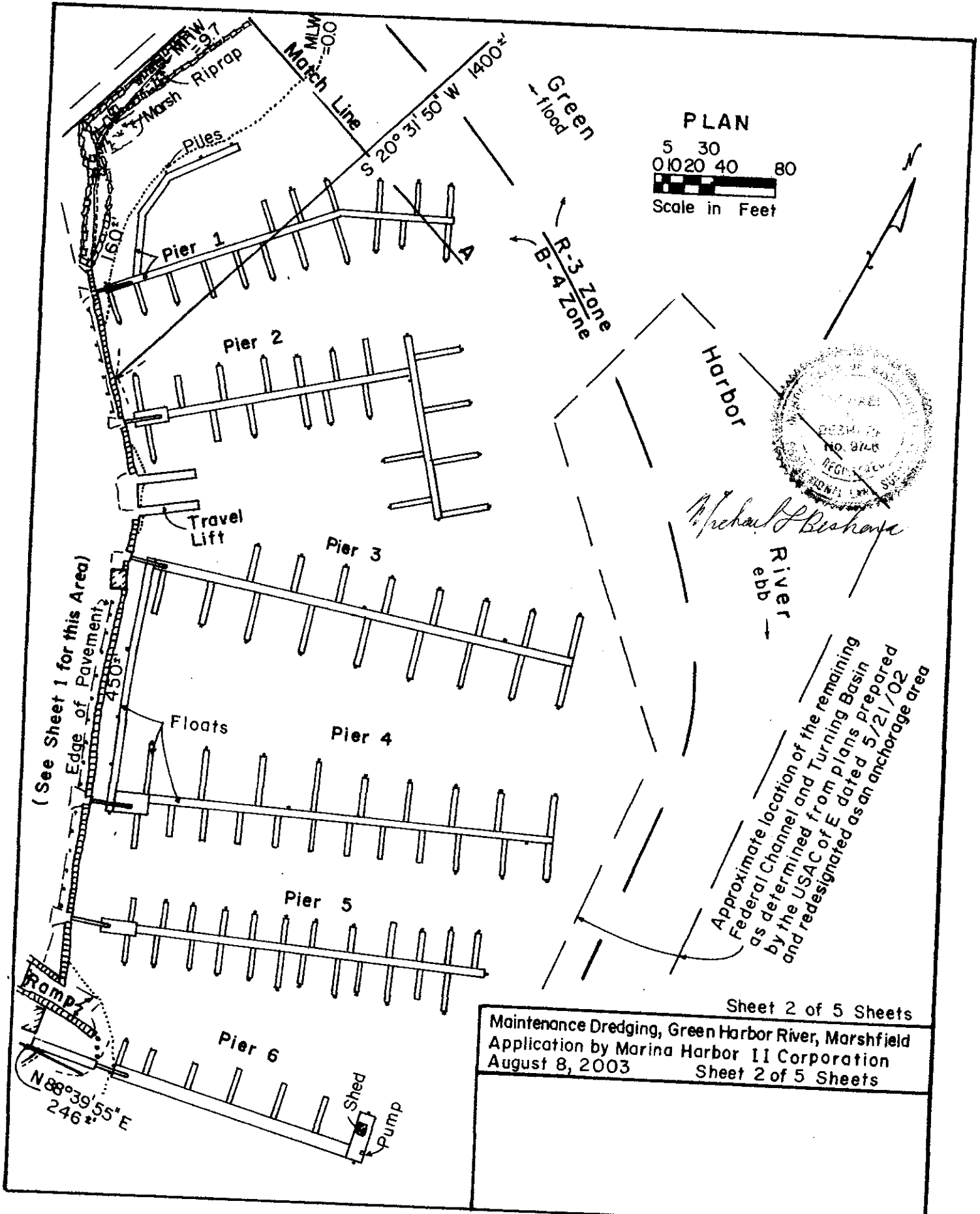
Thanks

Dms

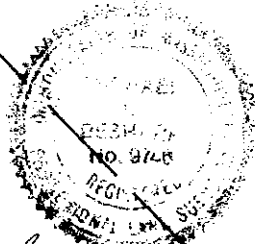
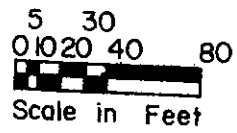


Michael L. Reshar

Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 1 of 5 Sheets



PLAN



Michael J. Bishara

Approximate location of the remaining Federal Channel and Turning Basin as determined from plans prepared by the USAC of E dated 5/21/02 and redesignated as an anchorage area

Sheet 2 of 5 Sheets
 Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003
 Sheet 2 of 5 Sheets

(See Sheet 1 for this Area)
 Edge of Pavement

Ramp
 $N 88^{\circ} 39' 55'' E$
 $246'$

Floats

Shed
 Pump

Harbor

River
 ebb

Green
 - flood

R-3 Zone
 B-4 Zone

Pier 1

Pier 2

Pier 3

Pier 4

Pier 5

Pier 6

Travel Lift

Piles

Marsh
 Riprap
 MW = 9.7
 MW = 0.0

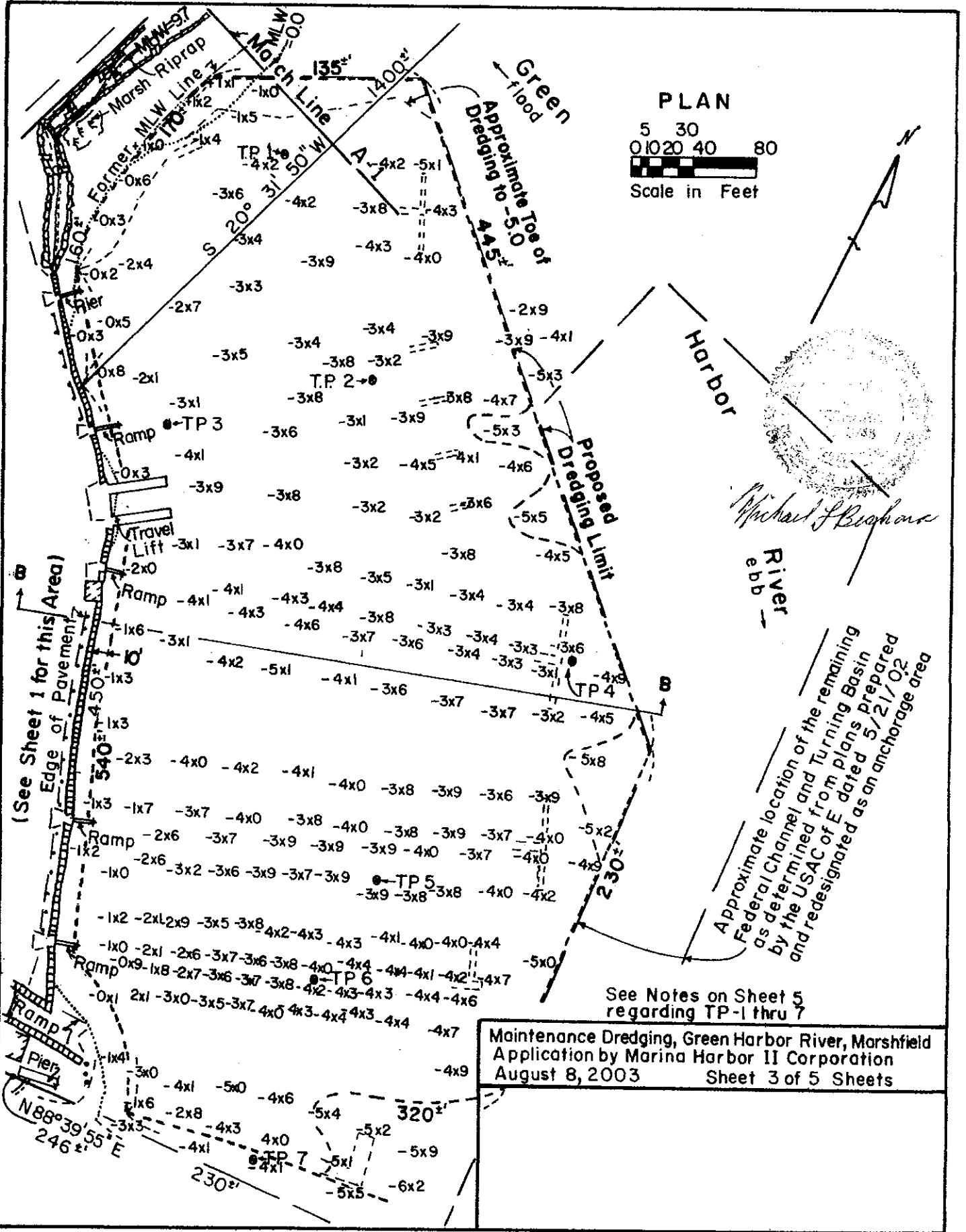
Match Line

$S 20^{\circ} 31' 50'' W$
 $1400'$

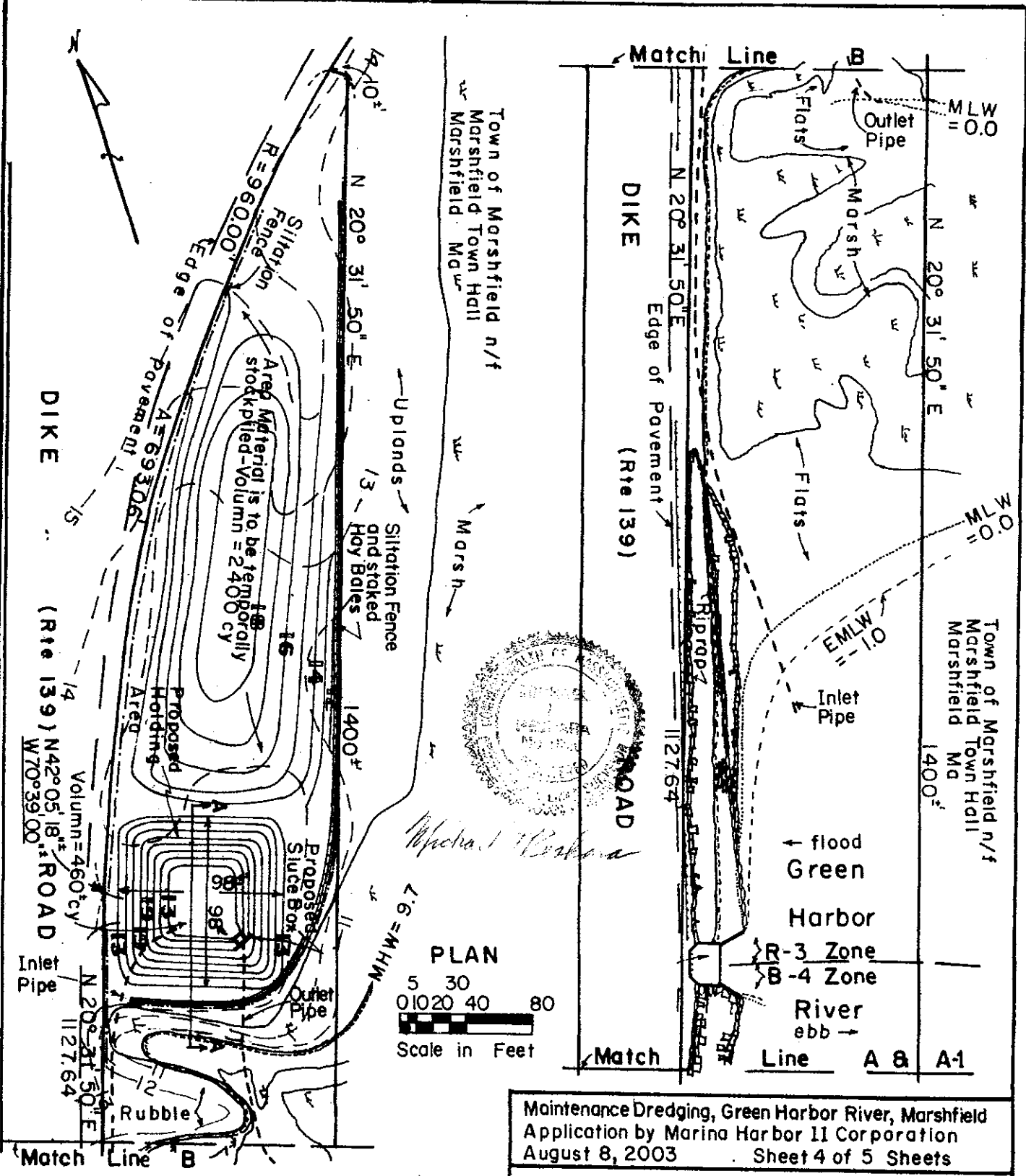
PLAN

5 30
0 10 20 40 80

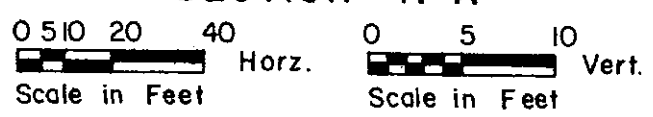
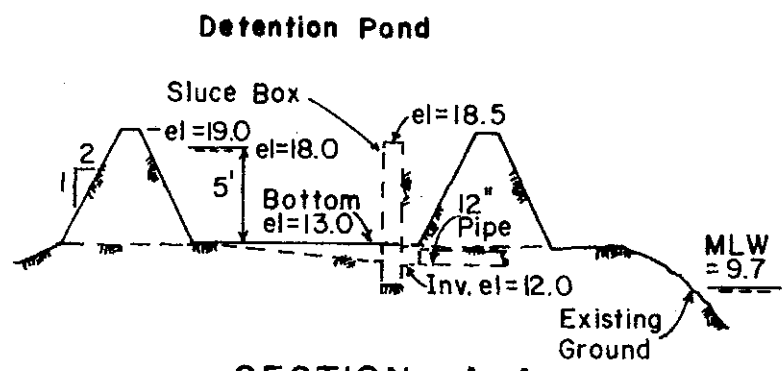
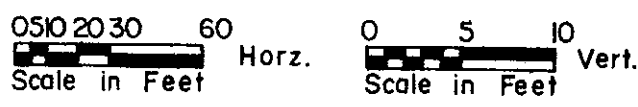
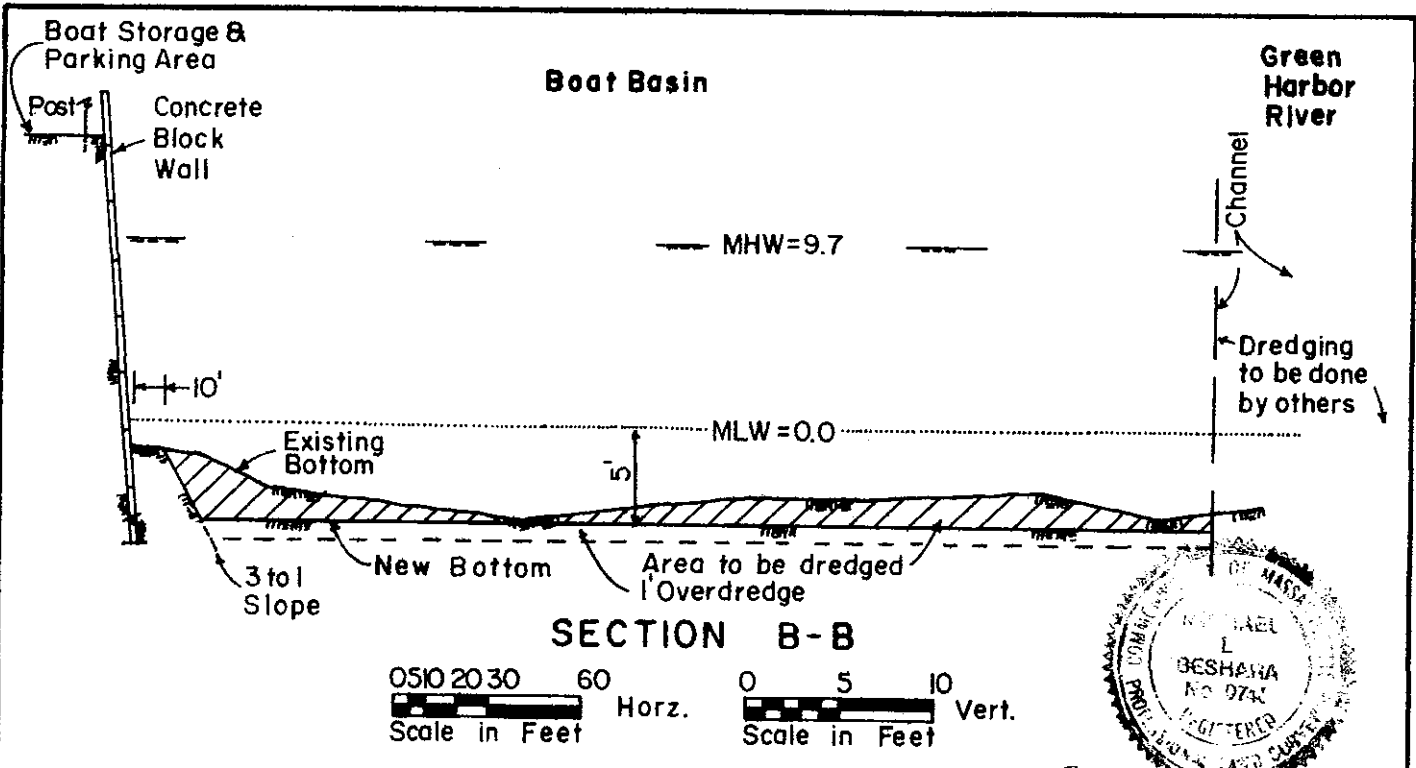
Scale in Feet



Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 3 of 5 Sheets



Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 4 of 5 Sheets



Notes *Michael L. Beshara*
 These plans have been prepared for permit purposes for the dredging and disposal

The property lines shown on these plans are not the result of an actual on the ground survey. The lines of ownership have been compiled from plans and deeds of record.

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Dredging to be done by either mechanical or hydraulic method

Notes Cont.

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 Dredging volumn to -5.0 mlw = 8,500[±]cy
 Dredging volumn to -6.0 mlw = 15,100[±]cy to a 1' overdredge depth

Marina References
 Licenses Nos. 497, 4187 & 5552
 Permit Nos. 66 & 221

Maintenance Dredging, Green Harbor River, Marshfield
 Application by Marina Harbor II Corporation
 August 8, 2003 Sheet 5 of 5 Sheets



MARINA HARBOR CORPORATION

Route 139 * P.O. Box 338 * GREEN HARBOR, MASSACHUSETTS 02041 * Telephone 837-1181

January 21, 2003

Ms. Elizabeth Kouloheras
Department of Environmental Protection
Division of Wetlands and Waterways
20 Riverside Drive
Lakeville, Massachusetts 02108

Re: Permit No. 221
File No. SE 42-692
Dredging and Disposal
of Dredged Material
Marina Harbor Corporation
Green Harbor, MA 02041

Dear Ms. Kouloheras:

In November of 1991, the Department issued a Permit, copy attached, to perform maintenance dredging at the Green Harbor Marina in the Green Harbor River and to dispose of the material at an upland site adjacent to the river.

At the time we filed the Application with the Department, we also made application to the Marshfield Board of Appeals, the Marshfield Conservation Commission, Commonwealth of Massachusetts, Water Quality Section and the Army Corps of Engineers for their applicable approvals to perform the dredging and upland disposal. We were successful in obtaining approvals from the Board of Appeals, Conservation Commission and the Commonwealth, Water Quality Section, but failed to receive approval from the Corps, thus preventing the dredging.

The Corps would not issue their permit until an encroachment issue into the Federal Channel was resolved. The Corps has since deregulated a section of their channel, making the encroachment no longer an issue.

We are now going forward with our request for the Corps' permit, with the intent of 'piggybacking' on the Corps' proposed dredging project in the river.

Because of the time that has lapsed since the Permit was issued and when the dredging may occur, which is estimated to be in 2004, would you kindly advise if the Permit is still in effect, needs to be extended, or if a new application is required.

Thank you for your consideration.

Very truly yours,

Dan Vigneau
Vice President and General
Manager

Enclosures



William F. Weld
Governor
Daniel S. Greenbaum
Commissioner

Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Department of Environmental Protection

PERMIT NO. 221

Name and Address of Permittee:

Marina Harbor Corporation
239 Dike Road
Green Harbor, MA 02041

ISSUED: November 20, 1991
EXPIRES: November 20, 2001

Permission is hereby given by the Department of Environmental Protection to dredge: By hydraulic method approximately 2500 cubic yards of subaqueous material from the Green Harbor marina basin section of the Green Harbor River. The dredged material will be drained at an upland holding area of the marina property then deposited on another upland portion of the marina property located at 239 Dike Street, Marshfield, MA.

All work authorized herein shall be in the location shown and to the dimensions indicated in the permit plan (s) titled: Plan accompanying petition of Marina Harbor Corporation for maintenance dredging in Green Harbor River Marshfield, September 1990, Rev. Aug. 31, 1991.

STANDARD WATERWAYS PERMIT CONDITIONS

1. Acceptance of this Waterways Permit shall constitute and agreement by the Permittee to conform to all terms and conditions stated herein.
2. The Waterways Permit is issued upon the express condition that any and all other applicable authorizations necessitated due to the provisions hereof shall be secured by the Permittee prior to the commencement of any activity authorized pursuant to this Permit.
3. This Waterways Permit shall be revocable by the Department for noncompliance with the terms and conditions set forth herein. This Permit may be revoked after the Department has given written notice of the alleged noncompliance to the Permittee, or his agent, and those persons who have filed a written request for such notice with the Department and afforded them a reasonable opportunity to correct said noncompliance. Failure to correct said noncompliance after the issuance of a written notice by the Department shall render this Waterways Permit void.

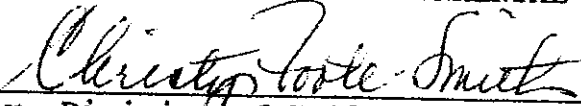
4. This Waterways Permit is issued subject to all applicable federal, state, county, and municipal laws, ordinances, by-laws, and regulations including but not limited to a valid final Order of Conditions issued pursuant to the Wetlands Protection Act, G.L. Chapter 131, s.40. In particular, this issuance is subject to the provisions of Sections 52 to 56, inclusive, of Chapter 91 of the General Laws, which provide, in part, that the transportation and dumping of the dredged material shall be done under the supervision of the Department, and that the Permittee shall be liable to pay the cost of said supervision whenever the owner of the dredge or excavating machine fails to pay for the same within ten (10) days after notification in writing from the Treasurer of the Commonwealth that the same is due.
5. This Waterways Permit is issued upon the express condition that the dredging and transport and disposal of dredged material shall be in strict conformance with all applicable requirements and authorizations of the DEP, Division of Water Pollution Control.
6. All subsequent maintenance dredging and transport and disposal of this dredged material during the term of this Permit shall conform to all standards and conditions applied to the original dredging operation performed under this Permit.
7. After completion of the work hereby authorized, the Permittee shall furnish, to the Department, a suitable plan showing the depths at mean low water over the area dredged. The dredging under this Permit shall be so conducted as to cause no unnecessary obstruction of the free passage of vessels. In doing the dredging authorized, care shall be taken to cause no shoaling. If, however, any shoaling is caused, the Permittee shall, at his expense, remove the shoal areas. The Permittee shall pay all costs of supervision, and if at any time the Department deems necessary a survey or surveys of the area dredged, The Permittee shall pay all costs associated with such work. Nothing in this Permit shall be so construed as to impair the legal rights of any persons, or authorize dredging on land not owned by the Permittee without consent of the owner(s) of such property.
8. The Permittee shall assume and pay all claims and demands arising in any manner from the work authorized herein, and shall save harmless and indemnify the Commonwealth of Massachusetts, its officers, employees, and agents from all claims, audits, damages, costs and expenses incurred by reason thereof.
9. The Permittee shall, at least three days before commencing any place of dredging in the tide water, give written notice to the Department of the location and amount of the proposed work, and the time at which it is expected.

10. Whosoever violates any provision of this permit shall be subject to a fine of \$25,000 per day for each day such violation occurs or continues, or by imprisonment for not more than one year, or both such fine and imprisonment; or shall be subject to civil penalty not to exceed \$25,000 per day for each such violation occurs or continue.

SPECIAL WATERWAYS PERMIT CONDITIONS

Dredging is authorized to a depth of 5.5 feet below Mean Low Water and may be maintained to a depth of 5.5 feet below Mean Low Water for ten years from the date of this permit.

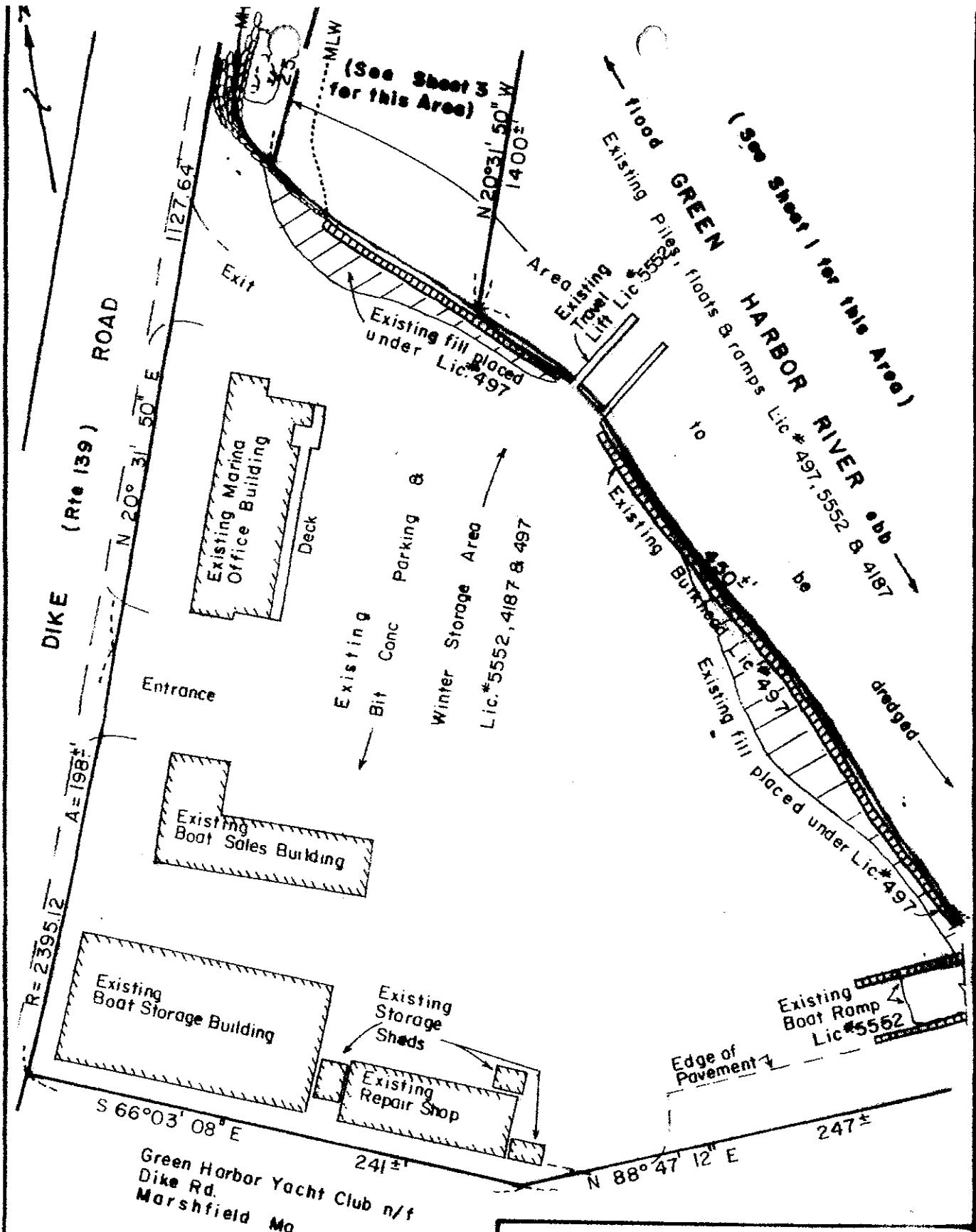
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Director, Division of Wetlands and Waterways Regulation

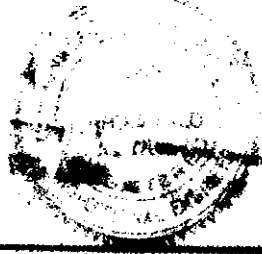


Section Chief, Waterways Regulation Program

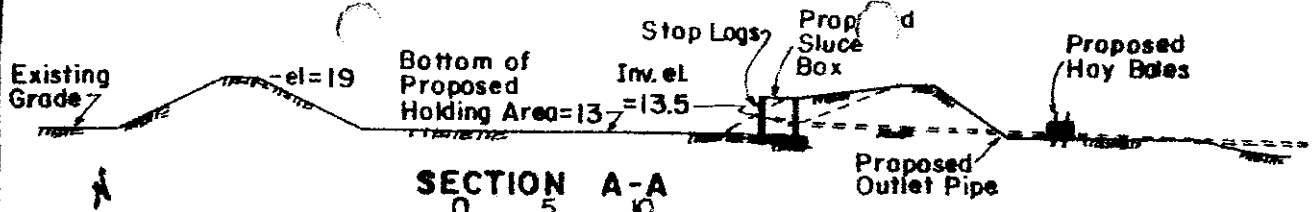


5 PLAN
 0 10 20 30 60
 scale in feet

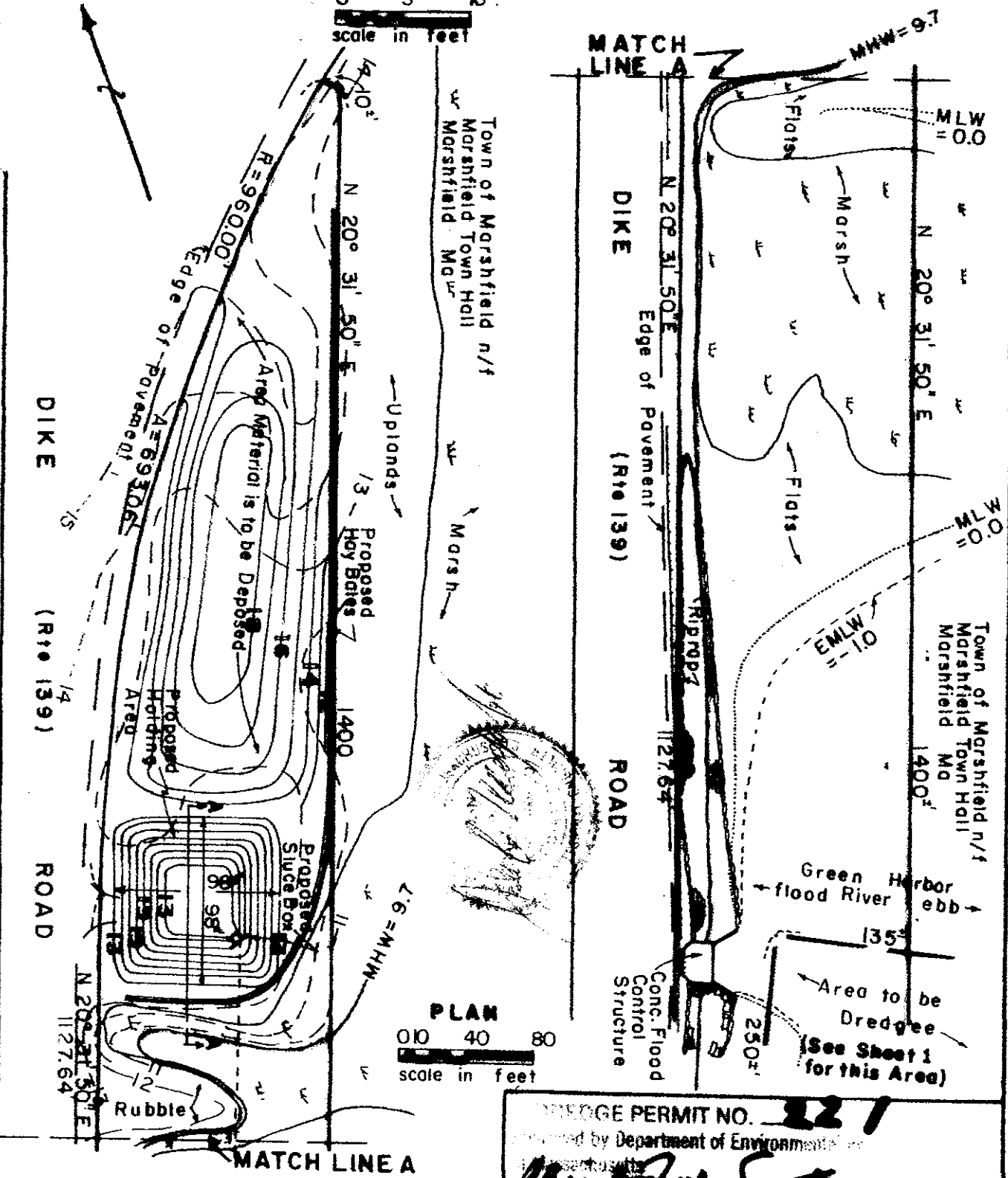
Sheet 2 of 3 Sheets
 Elevation are based
 on Mean Low Water
 Aug. 31, 1991



221
James J. [Signature]
 July 20 1991



SECTION A-A
0 5 10
scale in feet



PLAN
00 40 80
scale in feet

Sheet 3 of 3 Sheets
Elevation are based
on Mean Low Water
Aug 31, 1991

DREDGE PERMIT NO. **221**
 Issued by Department of Environmental
 Resources
[Signature]
 SECTION
NOV 20 1991

Appendix B

Town of Marshfield Upland Disposal Site

Page 1

Massachusetts Bay Disposal Site

Page 2

Cape Cod Bay Disposal Site

Page 3

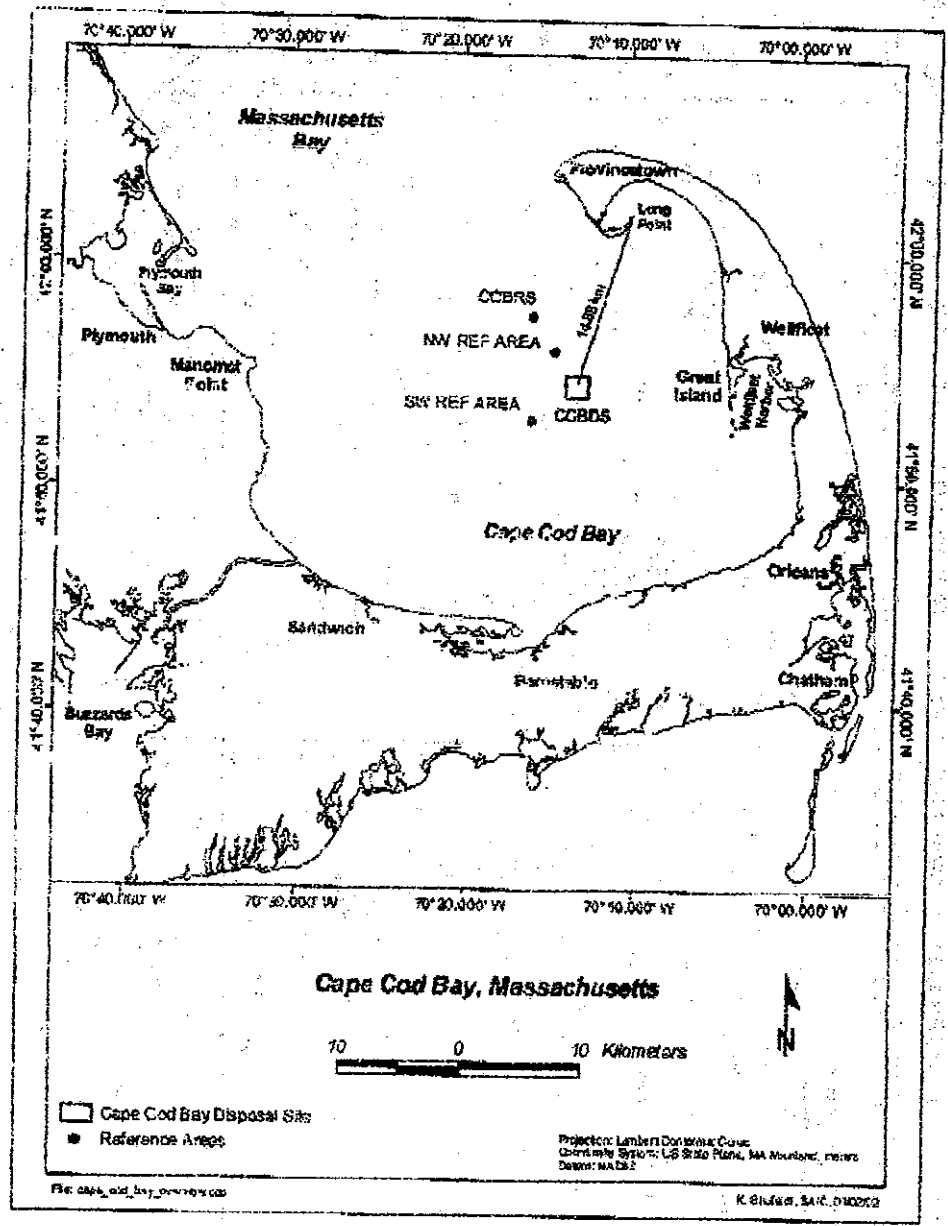


Figure 1-2. Location of the Cape Cod Bay Disposal Site (CCBDS) and nearby reference areas relative to Cape Cod Bay and Massachusetts Bay

Monitoring Survey at the Cape Cod Bay Disposal Site August 2001

ANT ROCK

DISPOSAL AREA

DISPOSAL AREA I

Green

DIKE

LOCUS

DISPOSAL AREA II

Harbor

TOWN PIER

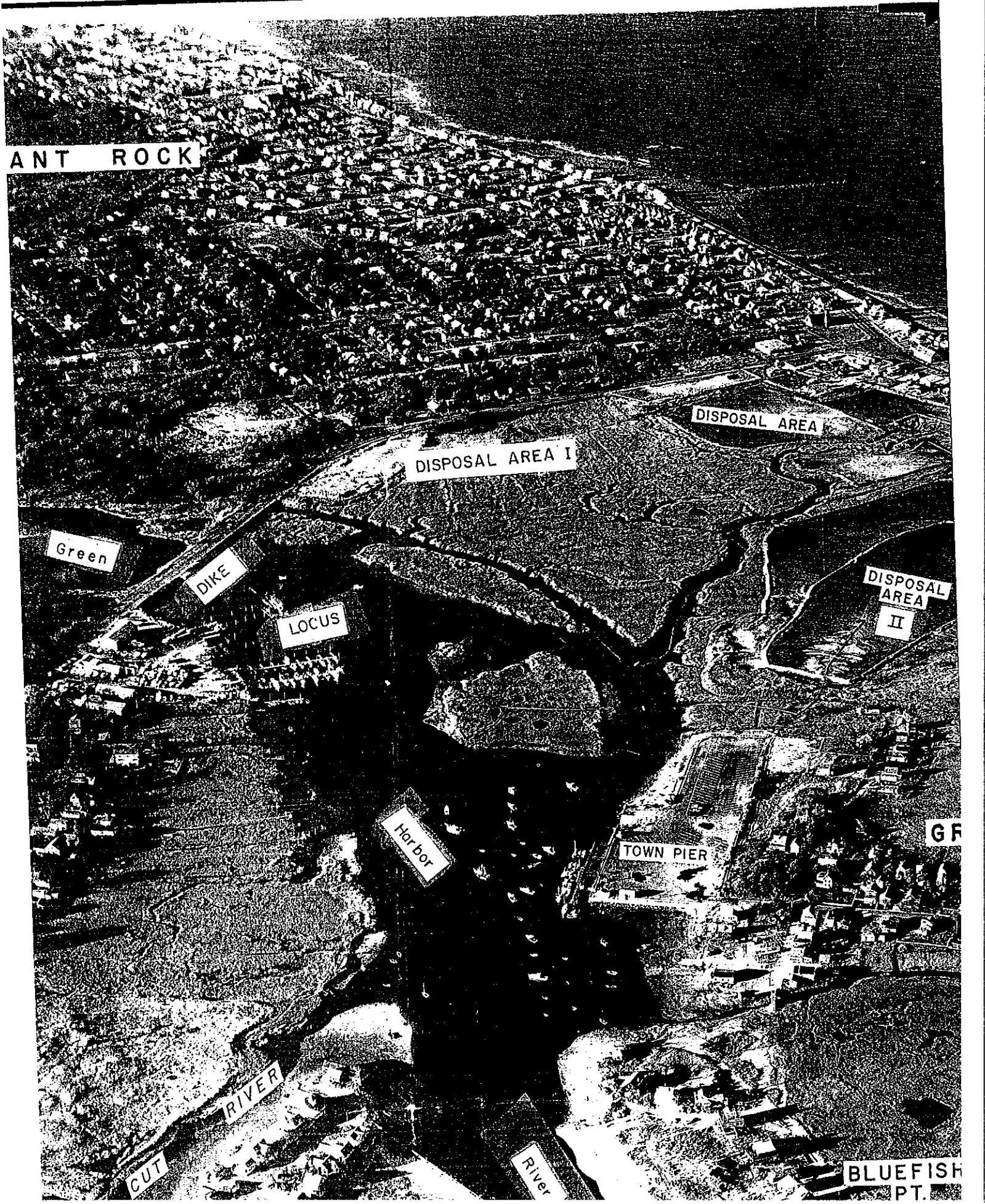
GF

CUT

RIVER

River

BLUEFISH PT.





ENGINEERING • TECHNOLOGY

P.O. Box 848 • Salem, Massachusetts 01970 • Telephone: 978-745-4569 • Fax: 978-745-4881

Client: Green Harbor Marina
239 Dike Road
Green Harbor, MA 02041

Date: September 5, 2003

LAB CERTIFICATION #: M-MA034

LABORATORY REPORT

Sample Type:	Composite Cores 1-7		Method #	Date
Sample From:	Dredge Sediment	Duplicate		
Sample ID#:	0307056	0307056		
% Total Solids	45.3%	47.7%	209A	07/21/03
% Volatile Solids	9.77%	13.0%	209E	07/21/03
Grain Size Analysis				
% Gravel (Sieve 4 & 10)	15.3%	11.8%		
% Sand (Sieve 40)	24.4%	20.8%		
% Sand Fine (Sieve 60)	17.8%	23.6%		
% Sand Very Fine (Sieve 200)	12.5%	11.2%		
% Silt & Clay (Pan Fraction <75u)	30.0%	32.6%		

* Sediment is Type B, because the % solids is less than 60% and the Volatile Solids are between 5-10%

Sampled By: Client
Sampled On: 07/16/02
Sample Received: 07/18/02

The information contained in this report is, to the best of my knowledge accurate and complete.

9/5/03 *Bruce Poole*
Date: Laboratory Director:



ENGINEERING • TECHNOLOGY

P.O. Box 848 • Salem, Massachusetts 01970 • Telephone: 978-745-4569 • Fax: 978-745-4881

Client: Green Harbor Marina
239 Dike Road
Green Harbor, MA 02041

Date: September 5, 2003

LAB CERTIFICATION #: M-MA034

LABORATORY REPORT

Sample Type:	Dredge Sediment			
Sample From:	Composite Cores 1-7	RCS-1		
Sample ID#:	0307056	Standard	Method #	Date

Metals mg/kg Dry Weight

Element	mg/kg	Standard	Method #	Date
Arsenic	21.7	30	200.7	07/28/03
Cadmium	1.18	30	213.7	07/23/03
Chromium	72.4	1000	218.7	07/24/03
Copper	68.6	200	220.1	08/01/03
Lead	58.7	300	220.1	07/22/03
Mercury	0.18	20	245.1	09/02/03
Nickel	18.1	300	3111B	08/01/03
Silver	.840	100	272.1	07/24/03
Zinc	108	2500	289.1	08/01/03

* Sediment is below all applicable RCS-2 Standards

Sampled By: B. Poole
Sampled On: 07/18/03
Sample Received: 07/18/03

This information contained in this report is, to the best of my knowledge accurate and complete.

9/5/03 Bruce Poole
 Date: _____ Laboratory Director: _____



ENGINEERING • TECHNOLOGY

P.O. Box 848 • Salem, Massachusetts 01970 • Telephone: 978-745-4569 • Fax: 978-745-4881

Client: Green Harbor Marina
239 Dike Road
Green Harbor, MA 02041

Date: September 5, 2003

LAB CERTIFICATION #: M-MA034

QA/QC LABORATORY REPORT FORM

	Blank	MDL	LCS	RPD	Date
Arsenic mg/kg	.062	0.30	105%	4.83%	07/28/03
Cadmium mg/kg	0	0.05	108%	11.0%	07/23/03
Chromium mg/kg	0	0.05	109%	7.47%	07/24/03
Copper mg/kg	.001	0.05	102%	5.14%	08/01/03
Mercury mg/kg	0.001	0.01	87.9%	0.0%	09/02/03
Nickel mg/kg	.059	0.05	103%	8.22%	08/01/03
Lead mg/kg	.002	0.01	105%	4.04%	07/22/03
Silver mg/kg	.003	0.02	106%	44.8%	07/24/03
Zinc mg/kg	.002	0.05	112%	4.23%	08/01/03

MDL=Minimum Detection Limit

LCS= Percent recovery of known standard

RPD= Relative percent deviation of duplicate sample

$$\frac{(A-B) \times (100)}{(A+B)}$$

$$\frac{(A+B) \times (1/2)}$$

The information contained in this report is, to the best of my knowledge accurate and complete.

9/5/03 Bruce Poole
Date: Laboratory Director:

**GREEN HARBOR MARINA
DREDGE SEDIMENT
ANALYSIS SUMMARY**

Organics

**RCS-1
Standards**

Total Organic Carbon		
mg/kg	13,800 12,600	NA
Extractable Petroleum Hydrocarbon		
mg/kg	<25	100-2500
PAH's		
mg/kg	<0.02	Varies
PCB's		
mg/kg	<0.01	2
VOC's		
mg/kg	<.05	Varies

SAMPLE INFORMATION

DESCRIPTION: MADEP EPH 98-1 EXTRACTABLE PETROLEUM HYDROCARBONS
CLIENT: SP INC.
CLIENT ID: 307056 GREEN HARBOR MARINA 1-7
LAB ID: 308180

MATRIX: AQUEOUS
SOIL X
SEDIMENT

DILUTION FACTOR:

CONTAINERS: SATISFACTORY X
BROKEN
LEAKING

AQUEOUS PRESERVATIVES: N/A
pH<=2
pH>2

COMMENTS ABOUT PRESERVATIVES:

TEMPERATURE: RECEIVED ON ICE
RECEIVED AT 4 DEG C

COMMENTS ABOUT TEMPERATURE:

EXTRACTION METHODS FOR EPH ANALYSES:

WATER SAMPLES ARE EXTRACTED BY LIQUID\LIQUID EXTRACTION
SOLID SAMPLES ARE EXTRACTED BY SONICATION

SEE FOLLOWING PAGE FOR SAMPLE RESULTS AND ADDITIONAL INFORMATION

DESCRIPTION: MADEP EPH 98-1 EXTRACTABLE PETROLEUM HYDROCARBONS
 CLIENT: SP INC.
 LAB ID: 308180
 CLIENT ID: 307056 GREEN HARBOR MARINA 1-7 SOLID SAMPLE
 DATE RECEIVED: 08/18/03 DATE SAMPLED: 07/16/03
 DATE ANALYZED: 08/20/03 DATE EXTRACTED: 08/20/03

EPH ANALYTICAL RESULTS:	RESULT:	MDL:	UNITS:
UNADJUSTED C11-C22 AROMATICS (1)	ND	25	MG/KG
DIESEL PAH ANALYTES:			
NAPHTHALENE	ND	0.200	MG/KG
2-METHYLNAPHTHALENE	ND	0.200	MG/KG
PHENANTHRENE	ND	0.200	MG/KG
ACENAPHTHYLENE	ND	0.200	MG/KG
OTHER PAH ANALYTES:			
ACENAPHTHENE	ND	0.200	MG/KG
ANTHRACENE	ND	0.200	MG/KG
BENZO (A) ANTHRACENE	ND	0.200	MG/KG
BENZO (A) PYRENE	ND	0.200	MG/KG
BENZO (B) FLUORANTHENE	ND	0.200	MG/KG
BENZO (G, H, I) PERYLENE	ND	0.200	MG/KG
BENZO (K) FLUORANTHENE	ND	0.200	MG/KG
CHRYSENE	ND	0.200	MG/KG
DIBENZO (A, H) ANTHRACENE	ND	0.200	MG/KG
FLUORANTHENE	ND	0.200	MG/KG
FLUORENE	ND	0.200	MG/KG
INDENO (1, 2, 3-CD) PYRENE	ND	0.200	MG/KG
PYRENE	ND	0.200	MG/KG
C9-C18 ALIPHATICS (1)	ND	25	MG/KG
C19-C36 ALIPHATICS (1)	ND	25	MG/KG
C11-C22 AROMATICS (1,2)	ND	25	MG/KG

SURROGATE RECOVERY:

* RECOVERY:

CHLORO-OCTADECANE (COD)/ALIPHATIC SURROGATE	74
ORTHO-TERPHENYL (OTP)/AROMATIC SURROGATE	89
2-FLUOROBIPHENYL/FRACTIONATION SURROGATE	94
2-BROMONAPHTHALENE/FRACTIONATION SURROGATE	100

ND = NONE DETECTED

NA = NOT ANALYZED

ALL QA/QC PROCEDURES AND PERFORMANCE/ACCEPTANCE STANDARDS REQUIRED FOR EPH METHOD WERE FOLLOWED AND ACHIEVED. NO SIGNIFICANT MODIFICATIONS WERE MADE.

NOTES:

- 1) EXCLUDES CONCENTRATIONS OF ANY SURROGATES AND/OR INTERNAL STANDARDS ELUTING IN THAT RANGE
- 2) EXCLUDES CONCENTRATION OF TARGET PAH ANALYTES.

09/08/03
 DATE

Bruce A. Bornstein
 BRUCE A. BORNSTEIN
 LABORATORY DIRECTOR

NEW ENGLAND CHROMACHEM
6 NICHOLS STREET
SALEM, MA 01970
1-978-744-6600

DESCRIPTION: EPA METHOD 8270 BASE/NEUTRAL COMPOUNDS

CLIENT: SP INC.

LAB ID: 308180

CLIENT ID: 307056 GREEN HARBOR MARINA 1-7

STATE: SOLID

DATE RECEIVED: 08/18/03

DATE SAMPLED: 07/16/03

DATE EXTRACTED: 08/20/03

DATE ANALYZED: 08/20/03

PARAMETER

RESULTS

(UG/KG)

ACENAPHTHENE	ND
ACENAPHTHYLENE	ND
ANTHRACENE	ND
BIPHENYL	ND
BENZO (A) ANTHRACENE	ND
BENZO (B) FLUORANTHENE	ND
BENZO (K) FLUORANTHENE	ND
BENZO (GHI) PERYLENE	ND
BENZO (A) PYRENE	ND
BENZO (E) PYRENE	ND
CHRYSENE	ND
DIBENZO (A, H) ANTHRACENE	ND
2, 6-DIMETHYLNAPHTHALENE	ND
FLUORANTHENE	ND
FLUORENE	ND
INDENO (1, 2, 3-CD) PYRENE	ND
1-METHYLNAPHTHALENE	ND
2-METHYLNAPHTHALENE	ND
1-METHYLPHENANTHRENE	ND
NAPHTHALENE	ND
PERYLENE	ND
PHENANTHRENE	ND
PYRENE	ND

INTERNAL STANDARDS

4, 4-DIBROMOBIPHENYL (I.S.)	103
2-FLUOROBIPHENYL (I.S.)	97
4-BROMOBIPHENYL (SURR.)	82

METHOD DETECTION LIMIT = 20 UG/KG

7



08/21/03
DATE

BRUCE A. BORNSTEIN
LABORATORY DIRECTOR

NEW ENGLAND CHROMACHEM
6 NICHOLS STREET
SALEM, MA 01970
978-744-6600

EPA METHOD 8082 PCBS BY GAS CHROMATOGRAPHY

CLIENT: SP INC.

LAB ID # 308180

CLIENT ID: 307056 GREEN HARBOR MARINA 1-7 SOLID SAMPLE

DATE SAMPLED: 07/16/03
DATE RECEIVED: 08/18/03
DATE EXTRACTED: 08/20/03
DATE ANALYZED: 08/20/03

PARAMETER

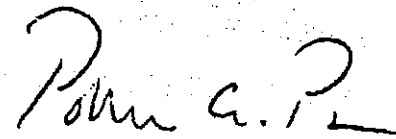
RESULTS (UG/KG)

PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260

ND
ND
ND
ND
ND
ND
ND

METHOD DETECTION LIMIT = 10 UG/KG

09/08/03
DATE



BRUCE A. BORNSTEIN
LABORATORY DIRECTOR

DESCRIPTION: EPA METHOD 8260B VOLATILE ORGANIC COMPOUNDS PAGE 1
 CLIENT: SP INC.

LAB ID: 308180

CLIENT ID: 307056 GREEN HARBOR MARINA 1-7

DATE RECEIVED: 08/18/03

DATE SAMPLED: 07/16/03

SOLID SAMPLE

DATE ANALYZED: 08/19/03

PARAMETER	RESULTS (UG/KG)
ACETONE	ND
ACETONITRILE	ND
ACROLEIN	ND
ACRLONITRILE	ND
ALLYL ALCOHOL	ND
ALLYL CHLORIDE	ND
BENZENE	ND
BENZYL CHLORIDE	ND
BROMACETONE	ND
BROMDICHLOROMETHANE	ND
BROMOFORM	ND
BROMOMETHANE	ND
N-BUTANOL	ND
2-BUTANONE (MEK)	ND
N-BUTYLBENZENE	ND
SEC-BUTYLBENZENE	ND
TERT-BUTYLEBENZENE	ND
CARBON DISULFIDE	ND
CARBON TETRACHLORIDE	ND
CHLORAL HYDRATE	ND
CHLOROBENZENE	ND
2-CHLORO-1,3-BUTADIENE	ND
CHLORODIBROMOMETHANE	ND
CHLOROETHANE	ND
2-CHLOROETHANOL	ND
BIS-(2-CHLOROETHYL) SULFIDE	ND
2-CHLOROETHYL VINYL ETHER	ND
CHLOROFORM	ND

PARAMETER	RESULTS (UG/KG)
CLORMETHANE	ND
CHLOROPRENE	ND
3-CHLOROPROPENE	ND
3-CHLOROPROPIONITRILE	ND
1,2-DIBROMO-3-CHLOROPROPANE	ND
1,2-DIBROMOETHANE	ND
DIBROMOMETHANE	ND
1,2-DICHLOROBENZENE	ND
1,3-DICHLOROBENZENE	ND
1,4-DICHLOROBENZENE	ND
CIS-1,4-DICHLORO-2-BUTENE	ND
TRANS-1,4-DICHLORO-2-BUTENE	ND
DICHLORODIFLUOROMETHANE	ND
1,1-DICHLOROETHANE	ND
1,2-DICHLOROETHANE	ND
1,1-DICHLOROETHENE	ND
CIS-1,2-DICHLOROETHENE	ND
TRANS-1,2-DICHLOROETHENE	ND
1,2-DICHLOROPROPANE	ND
1,3-DICHLORO-2-PROPANOL	ND
CIS-1,3-DICHLOROPROPENE	ND
TRANS-1,3-DICHLOROPROPENE	ND
1,2,3,4-DIEPOXYBUTANE	ND
DIETHYL ETHER	ND
1,4-DIOXANE	ND
EPICHLOROHYDRIN	ND
ETHANOL	ND
ETHYL ACETATE	ND

CONTINUED ON FOLLOWING PAGE

DESCRIPTION: EPA METHOD 8260B VOLATILE ORGANIC COMPOUNDS PAGE 2

LAB ID: 308180

CLIENT ID: 307056 GREEN HARBOR MARINA 1-7

PARAMETER	RESULTS (UG/KG)	PARAMETER	RESULTS (UG/KG)
ETHYLBENZENE	ND	PROPARGYL ALCOHOL	ND
ETHYLENE OXIDE	ND	B-PROPIOLACTONE	ND
ETHYL METHACRYLATE	ND	PROPIONITRILE	ND
HEXACHLOROBUTADIENE	ND	N-PROPYLAMINE	ND
HEXACHLOROETHANE	ND	N-PROPYLBENZENE	ND
2-HEXANONE	ND	PYRIDINE	ND
2-HYDROXYPROPIONITRILE	ND	STYRENE	ND
IODOMETHANE	ND	1,1,1,2-TETRACHLOROETHANE	ND
ISOBUTYL ALCOHOL	ND	1,1,2,2-TETRACHLOROETHANE	ND
ISOPROPYLBENZENE	ND	TETRACHLOROETHENE	ND
P-ISOPROPYLTOLUENE	ND	TOLUENE	ND
MALONONITRILE	ND	1,2,4-TRICHLOROENZENE	ND
METHACRYLONITRILE	ND	1,1,1-TRICHLOROETHANE	ND
METHANOL	ND	1,1,2-TRICHLOROETHANE	ND
METHYLENE CHLORIDE (DCM)	ND	TRICHLOROETHENE	ND
METHYL IODIDE	ND	TRICHLOROFLUOROMETHANE	ND
METHYL METHACRYLATE	ND	1,2,3-TRICHLOROPROPANE	ND
4-METHYL-2-PENTANONE (MIBK)	ND	1,3,5-TRIMETHYLBENZENE	ND
METHYL TERT-BUTYL ETHER	ND	1,2,4-TRIMETHYLBENZENE	ND
NAPHTHALENE	ND	VINYL ACETATE	ND
NITROBENZENE	ND	VINYL CHLORIDE	ND
2-NITROPROPANE	ND	O-XYLENE	ND
PENTACHLOROETHANE	ND	M-XYLENE	ND
2-PICOLINE	ND	P-XYLENE	ND

RECOVERIES OF SURROGATE AND INTERNAL STANDARDS	(%)
4-BROMOFLUOROBENZENE	91
1,2-DICHLOROENZENE-D4	98
FLUOROBENZENE	100

METHOD DETECTION LIMIT= 50 UG/KG

09/08/03
DATE

Bruce A. Bornstein
BRUCE A. BORNSTEIN
LABORATORY DIRECTOR

NEW ENGLAND CHROMACHEM
6 NICHOLS STREET
SALEM, MA 01970
1-978-744-6600

CLIENT: SP INC.

DATE RECEIVED: 08/18/03
DATE ANALYZED: 08/22/03

DATE SAMPLED: 07/16/03

PARAMETER: HG

NEC ID CLIENT ID

UNITS: MG/KG

308180 307056 GREEN HARBOR MARIN

0.188

ANALYSIS PERFORMED BY METHOD 245.1
DATE DIGESTED: 8/21/03
DETECTION LIMIT: 0.010 MG/KG



BRUCE A. BORNSTEIN
LABORATORY DIRECTOR

08/22/03
DATE

NEW ENGLAND CHROMACHEM
6 NICHOLS STREET
SALEM, MA 01970
1-978-744-6600

CLIENT: SP INC.

DATE RECEIVED: 08/18/03
DATE ANALYZED: 08/26/03

DATE SAMPLED: 07/16/03

PARAMETER: TOC

UNITS: MG/KG

NEC ID CLIENT ID
308180 307056 GREEN HARBOR MARIN

13800

308180 307056 GREEN HARBOR MARIN

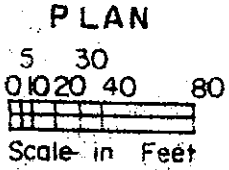
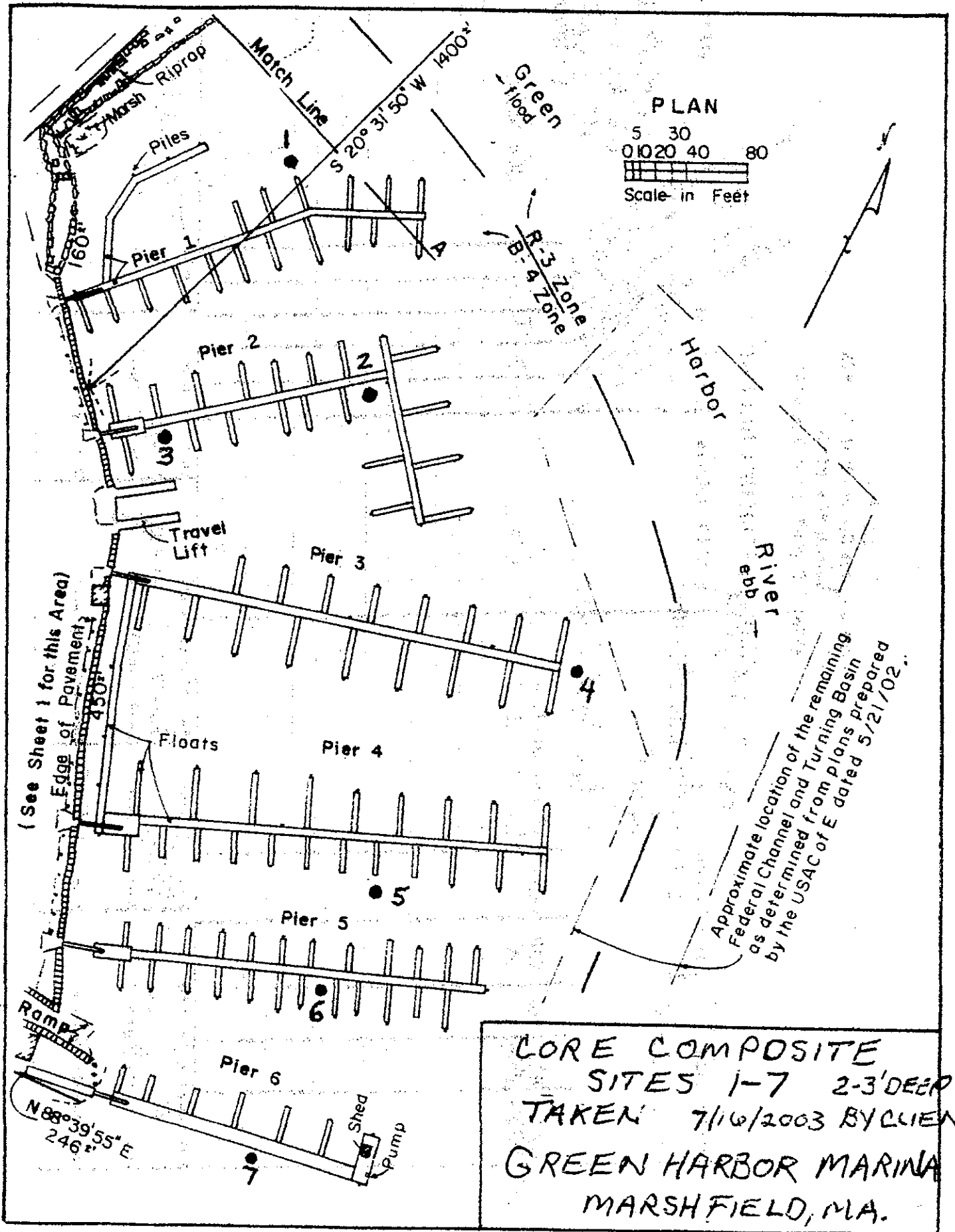
12600

ANALYSIS PERFORMED IN DUPLICATE
DETECTION LIMIT: 250 MG/KG

09/04/03
DATE



BRUCE A. BORNSTEIN
LABORATORY DIRECTOR



Approximate location of the remaining Federal Channel and Turning Basin as determined from plans prepared by the USAC of E dated 5/21/02.

CORE COMPOSITE
 SITES 1-7 2-3' DEEP
 TAKEN 7/16/2003 BY CLIENT
 GREEN HARBOR MARINA
 MARSHFIELD, MA.

Commonwealth of Massachusetts
Department of Environmental Protection
Waterways Section
20 Riverside Drive
Lakeville, Massachusetts 02347

Re: Chapter 91, Waterways
Permit, Maintenance
Dredging, Green Harbor
Marina, Marshfield
Transmittal No. W 044463

Dear Sir or Madam:

I am enclosing the Permit Plans, five (5) sheets, that are accompanying our BPW WW01b to perform maintenance dredging at the Green Harbor Marina, 239 Dike Road, (Rte 139), in the Green Harbor River, in the Green Harbor Section of Marshfield.

Also enclosed is the Order of Conditions issued by the Marshfield Conservation Commission and the white payment Transmittal Form No. W 044463.

It is our intent to perform maintenance dredging to -5 mlw, with an estimated quantity of 8,500 cy, and with an allowed 1' overdredge to -6 mlw, with an estimated quantity of 15,100 cy. The Marina was last dredged in 1981.

We hope to 'piggy-back' on the anticipated Fall of 2004, Corps of Engineers and Town of Marshfield's hydraulic maintenance dredging of the river and boat basin/s. If the dredging occurs, we are proposing to dispose of all or part of our material on property owned by the Marina on Dike Road, (Disposal Area I), or all or part of the material, at the Town of Marshfield's upland dredge disposal site off of Town Pier Road, (Disposal Area II). These locations have been active as dredge disposal areas in the past and are shown on a section of a Corps' aerial photo taken in 1969, copy enclosed, and identified as Disposal Areas I & II, as mentioned above.

If the Corps/Town dredging does not occur, because of the siltation problems at the Marina, we are planning to dredge alone. If we do, most likely, it will be done mechanically. Therefore, we are also seeking approval to dispose of the material at sea, either at the Mass Bay Disposal Site, or at the Cape Cod Disposal Site. These locations, and the Town's Disposal Site are shown on the enclosed appendix B, 3, Pages. The above mentioned on-site disposal area is shown on Sheet 4, of the above mentioned Project Plans

For your review, I am enclosing a copy of the Laboratory Report form SP Engineering Technology, dated 9/5/03, 14 Pages. You will note, on Page 14, the location where the seven (7) samples were taken are shown. The seven (7) samples were mixed together and delivered to SP Engineering.

I wrote to Elizabeth Kouloheras, regarding this project in a letter dated January 21, of this year. Accompanying the letter was a copy of Permit No. 221, that was issued on November 20, 1991, for this work. We had also intended to 'piggy-back' on the Corps/Town dredging planned for that time, but the dredging never occurred. I am enclosing a copy of the January 21, letter and Permit.

If you need any additional information, please call.

Very truly yours,



Daniel Vigneau, Treasurer
Marina Harbor II Corporation
d/b/a Green Harbor Marina
239 Dike Rd. P.O. Box 338
Green Harbor, MA 02041
(781) 837-1181

Enclosures

June 28, 2004

Mr. Daniel Vigneau
Marina Harbor Corp.
P.O. Box 338
Green Harbor, Massachusetts 02041

**Re: Sediment Sampling Summary
Green Harbor Marina
Marshfield, Massachusetts
Norfolk Ref. No. 776.2.1**

Dear Mr. Vigneau

On May 25, Norfolk Ram Group, LLC (Norfolk) assisted with sediment sampling at the Green Harbor Marina in Marshfield, Massachusetts. A total of nine sediment cores were collected at eight different locations as indicated on the plan of Sediment Sampling Location and Depths Below Grade, attached as Figure 1, Appendix A. The sediment cores were submitted to Rhode Island Analytical (RIA) for sieve analysis.

The results of the grain size analysis indicated that the sampled material was uniform across the sampling area, consisting of 63 to 68 % silt, 17 to 23 % clay, and 3 to 20 % sand. Based on this uniformity, and upon the recommendation of Charles N. Farris of the Army Corps of Engineers (ACOE), the sediment samples from all sediment boring locations were composited for further chemical analysis into one composite sample. The composite sample was analyzed for PCBs, Pesticides, Extractable Petroleum Hydrocarbons (EPH), Polynuclear Aromatic Hydrocarbons (PAHs), Volatile Organic Carbons (VOCs), arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc, specific conductance, sulfide reactivity and total organic carbon.

The results of the laboratory analyses are summarized in Tables 1 through 3, Appendix A, which list all detected analytes. Copies of the laboratory data packages are provided in Appendix B. The laboratory results were compared to both the Massachusetts Department of Environmental Protection's (the DEP's) Upland Disposal Criteria, and the detection limits specified by the Environmental Protection Agency (the EPA) and the ACOE for evaluation of dredged material proposed for disposal in New England Waters. Please note that the EPA and ACOE do not have strictly assigned standards for each compound; rather, they evaluate sediment quality as a whole based on the types and concentrations of analytes detected within the samples.

As indicated in Tables 1 through 3, the composite sediment sample from Green Harbor Marina meets all requirements for upland disposal at a lined landfill, which is under the purview of the DEP.

All tested metals, PAHs including phenanthrene, flouranthene and pyrene, and the pesticide Delta-BHC, were detected above the EPA and ACOE required detection limits. In addition, in the laboratory analysis for PAHs, and pesticides, RIA's detection limits (20 parts per billion (ppb) and 10 to 50 ppb, respectively) exceeded that required by the EPA and ACOE (10 ppb). The laboratory results have been forwarded to Charles N. Farris for evaluation. Norfolk is currently awaiting a response from Mr. Farris regarding the suitability of the sediments for off-shore or on-Site disposal.

If you have any questions regarding this matter, please contact Joseph P. Salvetti or Ellen A. Blackburn at (508) 747-7900, extension 127 and 159, respectively.

Yours truly,

Norfolk Ram Group, LLC



Joseph P. Salvetti, LSP
Senior Associate

N:\Projects\776 Green Harbor Marina\04docs\lrrpt.doc

Attachments

ATTACHMENT A

SITE FIGURE

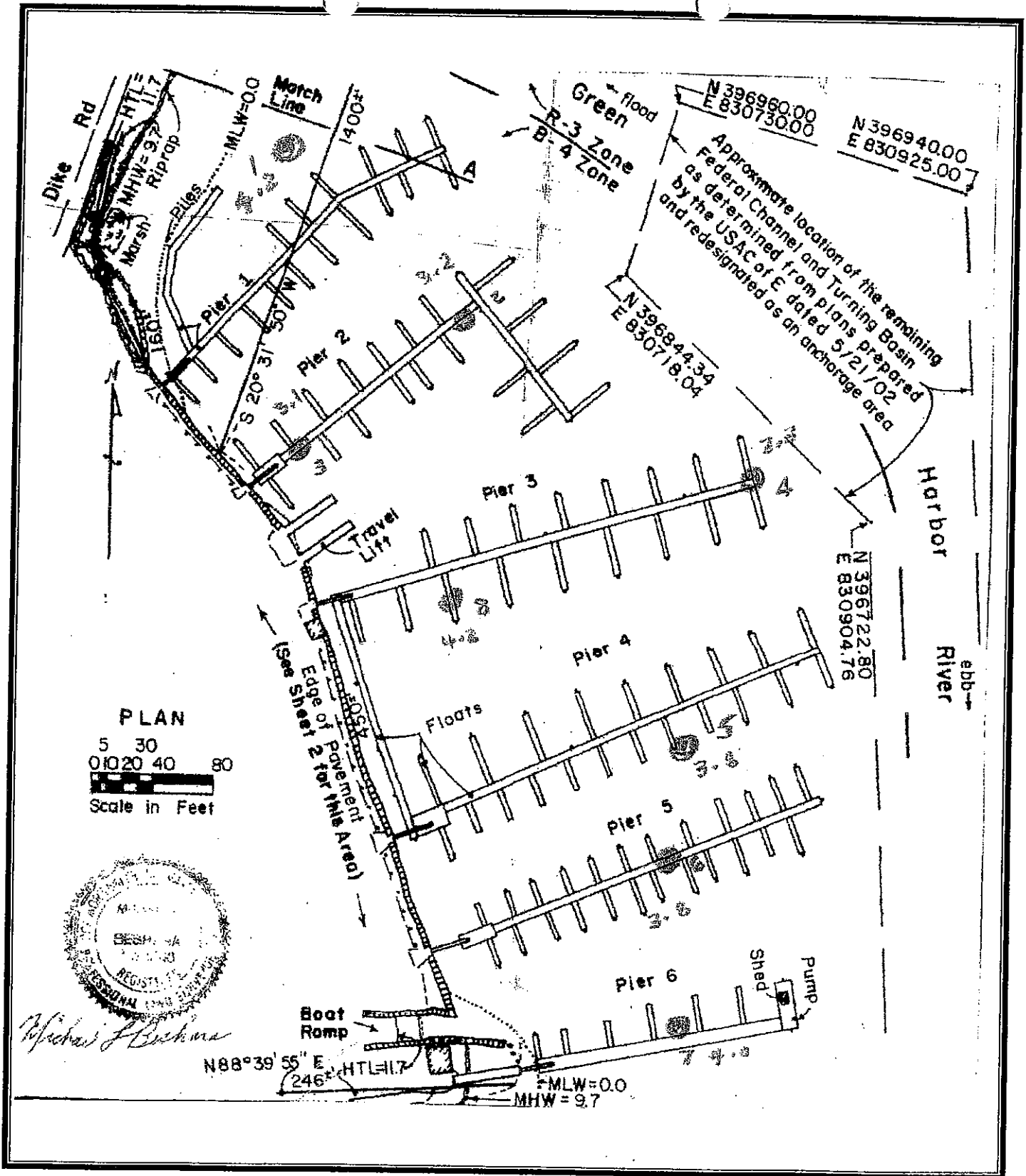


FIGURE 1
 Sediment Sampling Locations and Depths Below Grade
 Green Harbor Marina, Marshfield, Massachusetts
 Source: Daniel Vigneau, Field Notes

ATTACHMENT B
DATA SUMMARY TABLES

Table 1
PCBS, Pesticides, VOCs and Physical Properties Detected in Sediment
Green Harbor Marina
Marshfield, Massachusetts
(mg/Kg)

		PCBs	Pesticides	VOCs	Physical Properties		
Sample Identification Number	Date Sampled	BZ209	Delta-BHC	Methylene Chloride	Specific Conductance (uMHOS/CM)	Sulfide Reactivity	TOC%
S1-S2B	5/25/2004	0.00085	0.02	0.4	3,200	38,000	1
EPA and USACOE required detection limits for Disposal in New England Waters							
		0.001	0.01	NS	NS	NS	NS
Criteria for Sediment Reuse at Lined Landfill							
		<2*	NS	10**	NS	NS	NS

Notes:
mg/Kg - milligrams per kilogram dry weight.
BRL < 10 Indicates concentration, if any, is below reporting limit for analyte.
NS - no standard available.
* Value is for total PCBs
** Value is for total VOCs

Table 2
Extractable Petroleum Hydrocarbons and Polynuclear Aromatic Hydrocarbons Detected in Sediment
Green Harbor Marina
Marshfield, Massachusetts
(mg/Kg)

Sample Identification Number	Date Sampled	Extractable Petroleum Hydrocarbons							
		C ₉ -C ₁₈ Aliphatics	C ₁₉ -C ₃₆ Aliphatics	C ₁₁ -C ₂₂ Aromatics	Total Petroleum	Total PAHs	Phenanthrene	Fluoranthene	Pyrene
S1-S2B	5/25/2004	BRL <10	17	BRL <10	27	0.30	0.03	0.05	0.06
EPA and USACOE required detection limits for Disposal in New England Waters									
		1,000	2,500	200	NS	NS	0.01	0.01	0.01
Criteria for Sediment Reuse at Lined Landfill									
		NS	NS	NS	5,000	100	NS	NS	NS

Notes:
mg/Kg - milligrams per kilogram dry weight.
BRL < 10 Indicates concentration, if any, is below reporting limit for analyte.
NS - no standard available.

Table 3
Total Metals and Cyanide Detected in Sediment
Green Harbor Marina
Marshfield, Massachusetts
(mg/Kg)

Sample Identification Number	Date Sampled	Arsenic	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Zinc
S1-S2B	5/25/2004	10	0.82	63	68	44	0.20	17	160
EPA and USACOE required detection limits for Disposal in New England Waters									
		0.4	0.07	1	0.5	0.5	0.02	0.5	1
Criteria for Sediment Reuse at Lined Landfill									
		40	80	1,000	NS	2,000	10	NS	NS

Notes:
mg/Kg - milligrams per kilogram dry weight.
BRL < 10 Indicates concentration, if any, is below analytical reporting limit for analyte.
NS - no standard available.
1. Cyanide expressed as free or physiologically available cyanide unless otherwise noted.

ATTACHMENT C

ANALYTICAL LABORATORY DATA PACKAGE



R.I. Analytical

Specialists in Environmental Services

Page 1 of 3

CERTIFICATE OF ANALYSIS

Norfolk Ram Group
Attn: Mr. Joe Salvetti
One Roberts Road
Plymouth, MA 02360

Date Received: 05/13/2004
Date Reported: 05/20/2004
P.O. #: 776.2.1
Work Order # 0405-06883

DESCRIPTION: PROJECT# 776.2.1 GREEN HARBOR MARINA MARSHFIELD

Subject sample(s) has/have been analyzed by our subcontracted laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

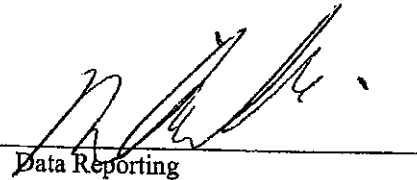
enc: Chain of Custody

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Norfolk Ram Group
 Date Received: 05/13/2004
 Work Order #: 0405-06883

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: S-1
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

Sample # 002

SAMPLE DESCRIPTION: S-2A
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

Sample # 003

SAMPLE DESCRIPTION: S-3
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

Sample # 004

SAMPLE DESCRIPTION: S-4
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

Sample # 005

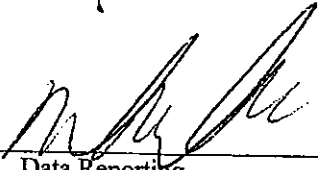
SAMPLE DESCRIPTION: S-5
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Norfolk Ram Group
 Date Received: 05/13/2004
 Work Order #: 0405-06883

Approved by: 
 Data Reporting

Sample # 006

SAMPLE DESCRIPTION: S-6
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

Sample # 007

SAMPLE DESCRIPTION: S-7
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

Sample # 008

SAMPLE DESCRIPTION: S-8
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

Sample # 009

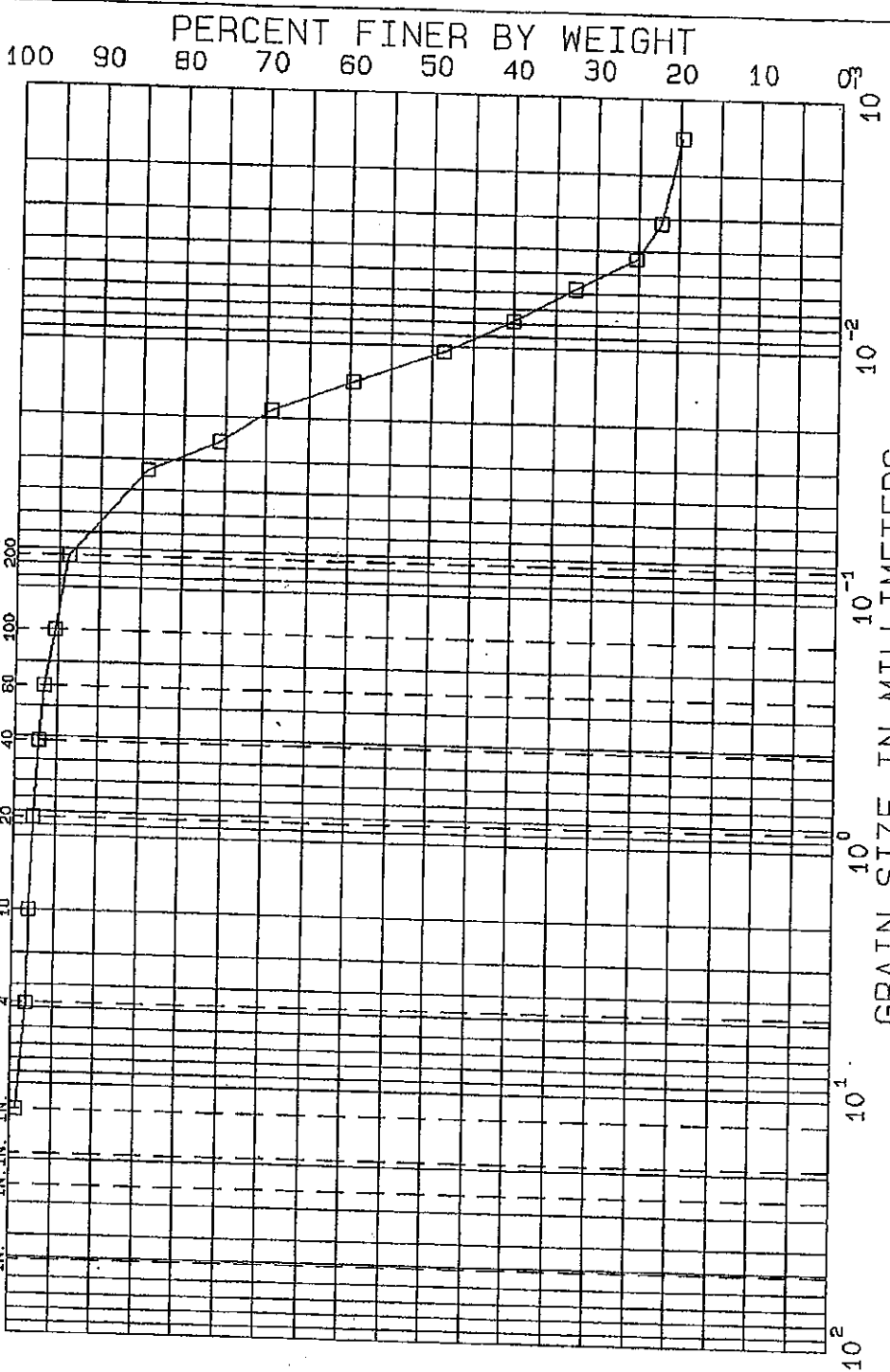
SAMPLE DESCRIPTION: S-2B
 SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/12/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SIEVE ANALYSIS	*		%	ASTM	05/19/2004	SUB
* See Attached						

U.S. STANDARD SIEVE SIZE

2 IN. 1 3/4 IN. 1/2 IN. 4 NO. 10 NO. 20 NO. 40 NO. 60 NO. 80 NO. 100 NO. 200



GRAIN SIZE IN MILLIMETERS

COARSE GRAVEL	GRAVEL	FINE	SAND	MEDIUM	FINE	SILT	CLAY
TEST NO. S23.1 MATERIAL SOURCE ID # 0405-06883-03 REMARKS Sand = 6% Silt = 73% Clay = 21%							

RHODE ISLAND ANALYTICAL
 WO # 0405-06883
 GRADATION TESTS

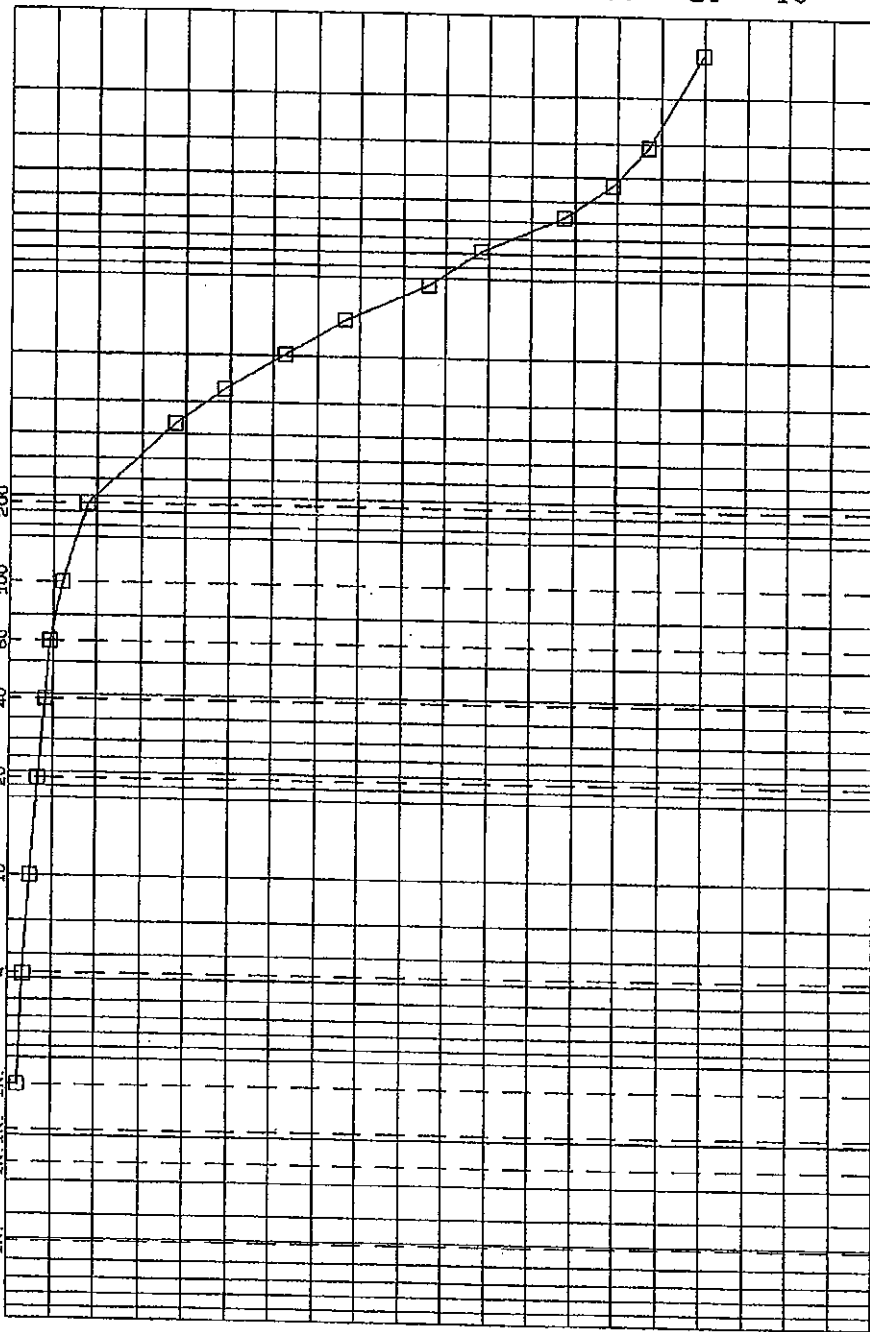
BORING NO.		TEST SERIES	
SAMPLE	S3	NO.	23
DEPTH		DATE	May 04
TECH.	PEC	REVIEWER	DAS
FILE	16872.00		

PERCENT FINER BY WEIGHT

100 90 80 70 60 50 40 30 20 10 0

U.S. STANDARD SIEVE SIZE

NO. 4 10 20 40 60 100 200
 2 IN. 1 3/4 IN. 1 1/2 IN. 1 IN. 3/4 IN. 1/2 IN. 1/4 IN.



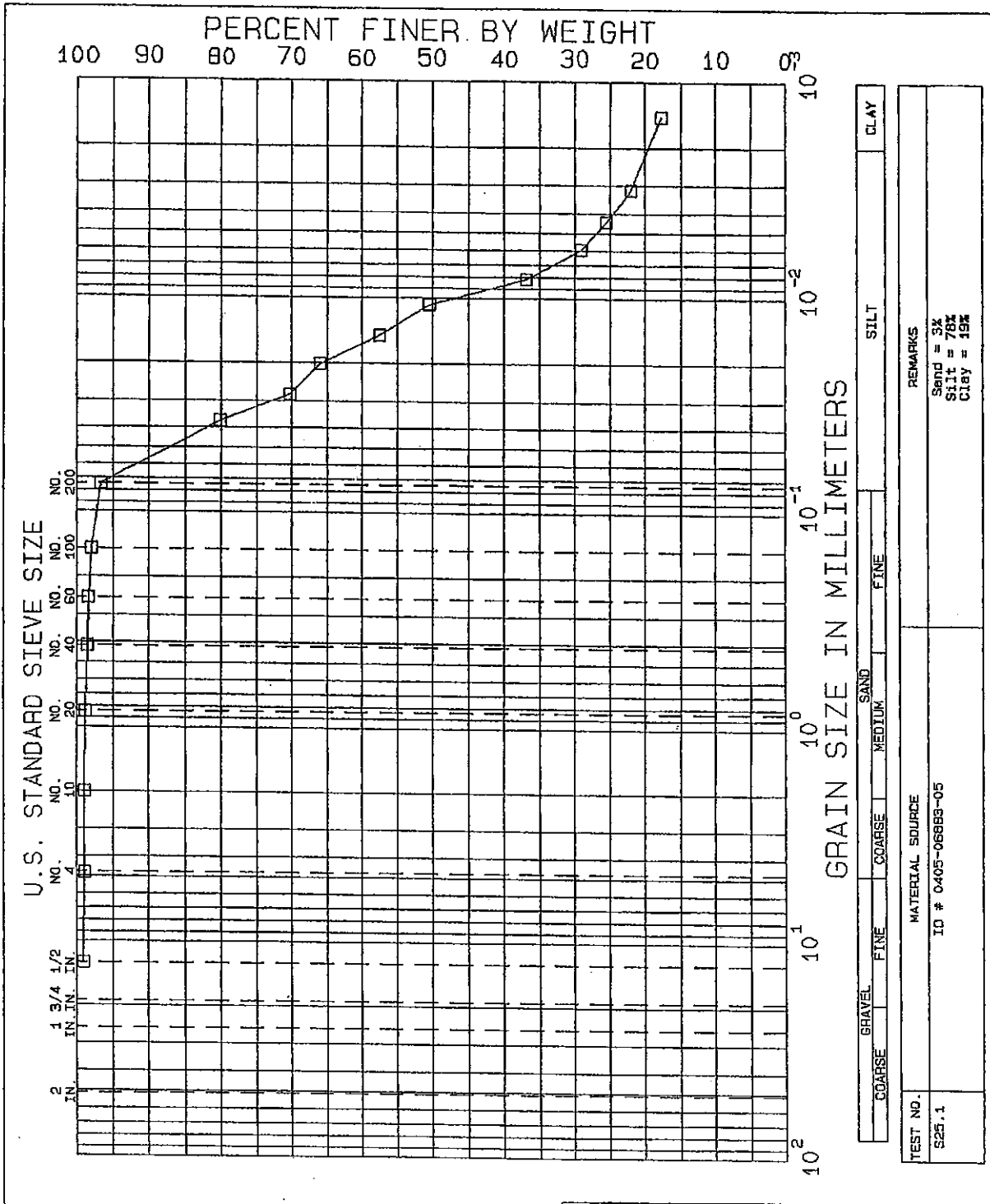
GRAIN SIZE IN MILLIMETERS

10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³

COARSE	GRAVEL	FINE	SAND	MEDIUM	FINE	SILT	CLAY
TEST NO.			MATERIAL SOURCE			REMARKS	
S24.1			ID # 0405-06883-04			Sand = 9% Silt = 68% Clay = 23%	

RHODE ISLAND ANALYTICAL
 WO # 0405-06883
 GRADATION TESTS

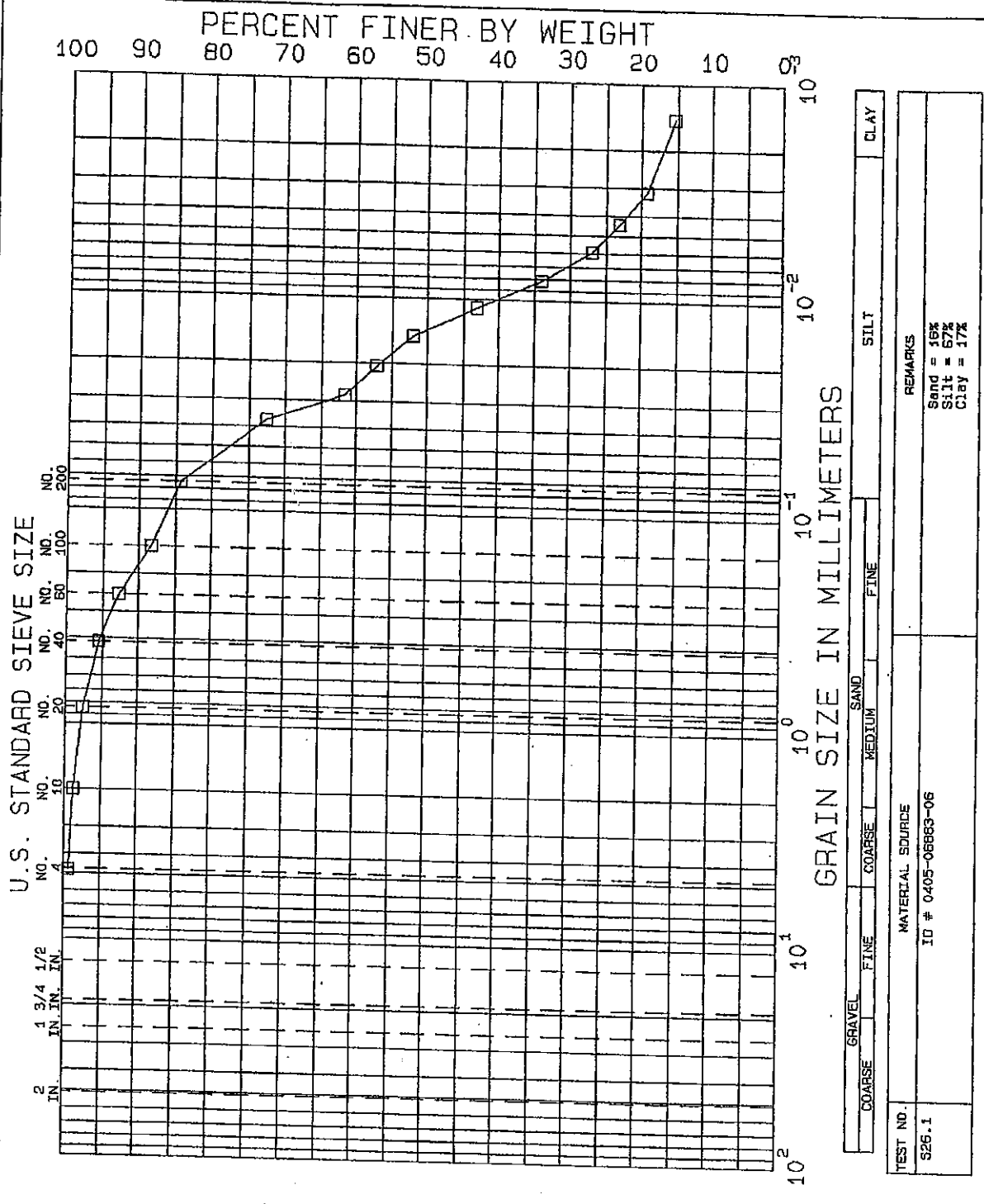
BORING NO. TEST SERIES
 SAMPLE S4 NO. R4
 DEPTH DATE May 04
 TECH. PEC
 REVIEWER DAS FILE 16872.00



RHODE ISLAND ANALYTICAL
 WO # 0405-06883
GRADATION TESTS

BORING NO.	TEST SERIES
SAMPLE S5	NO. 25
DEPTH	DATE May 04
TECH. PEC	FILE 16872.00
REVIEWER DAS	

GZA GEOENVIRONMENTAL, INC.
 ENGINEERS AND SCIENTISTS

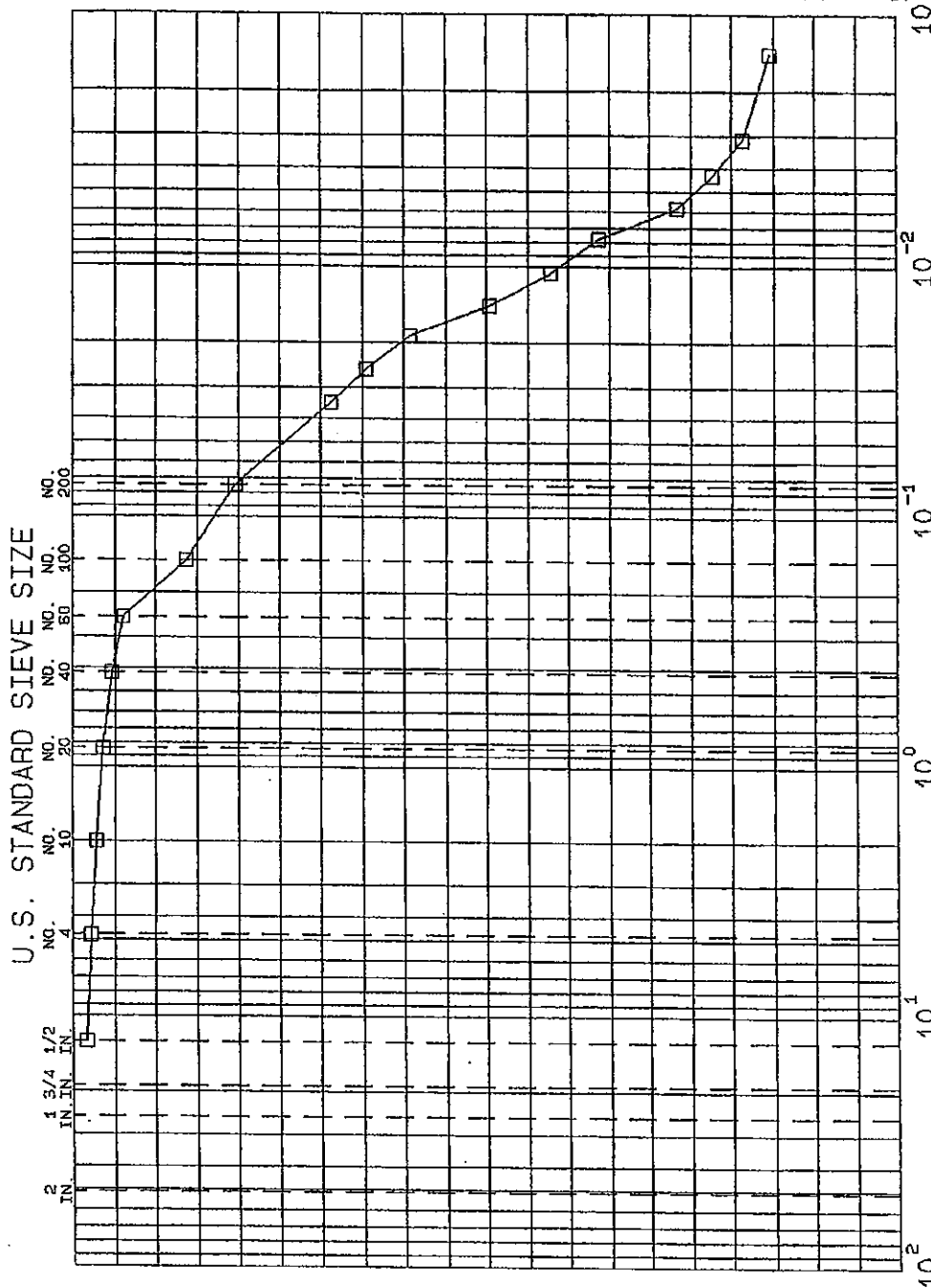


RHODE ISLAND ANALYTICAL
 WD # 0405-06883
GRADATION TESTS

BORING NO.		TEST SERIES	
SAMPLE	S6	NO.	26
DEPTH		DATE	May 04
TECH.	PEC	FILE	16872.00
REVIEWER	DAS		

GZA GEOENVIRONMENTAL, INC.
 ENGINEERS AND SCIENTISTS

PERCENT FINER BY WEIGHT

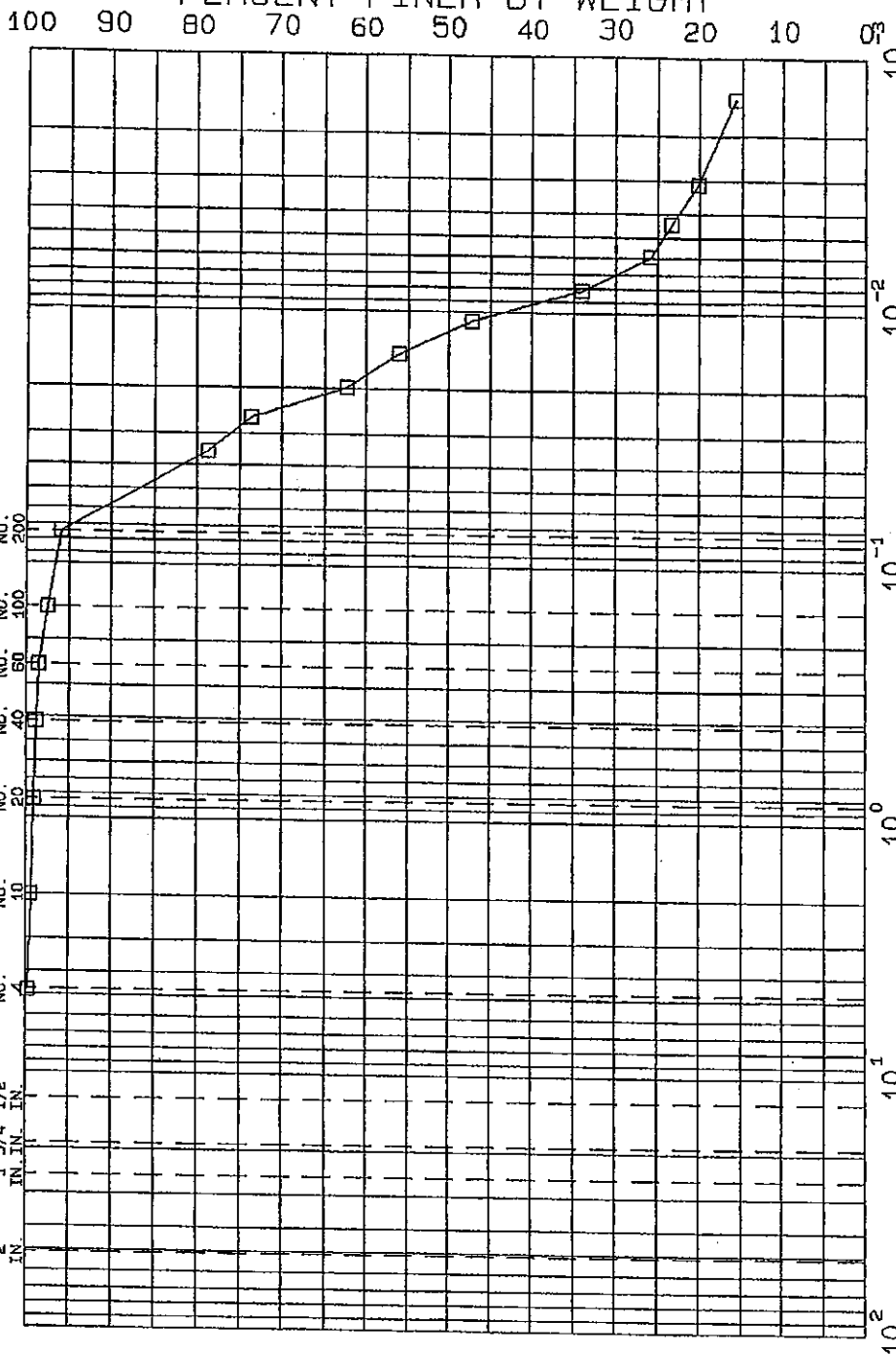


TEST NO. S27.1	MATERIAL SOURCE ID # 0405-06883-07	REMARKS Sand = 20% Silt = 83% Clay = 17%
-------------------	---------------------------------------	---

RHODE ISLAND ANALYTICAL
 WO # 0405-06883
 GRADATION TESTS

BORING NO. SAMPLE S7 DEPTH TECH. PEC REVIEWER OAS	TEST SERIES NO. 27 DATE May 04 FILE 16872.00
---	---

PERCENT FINER BY WEIGHT

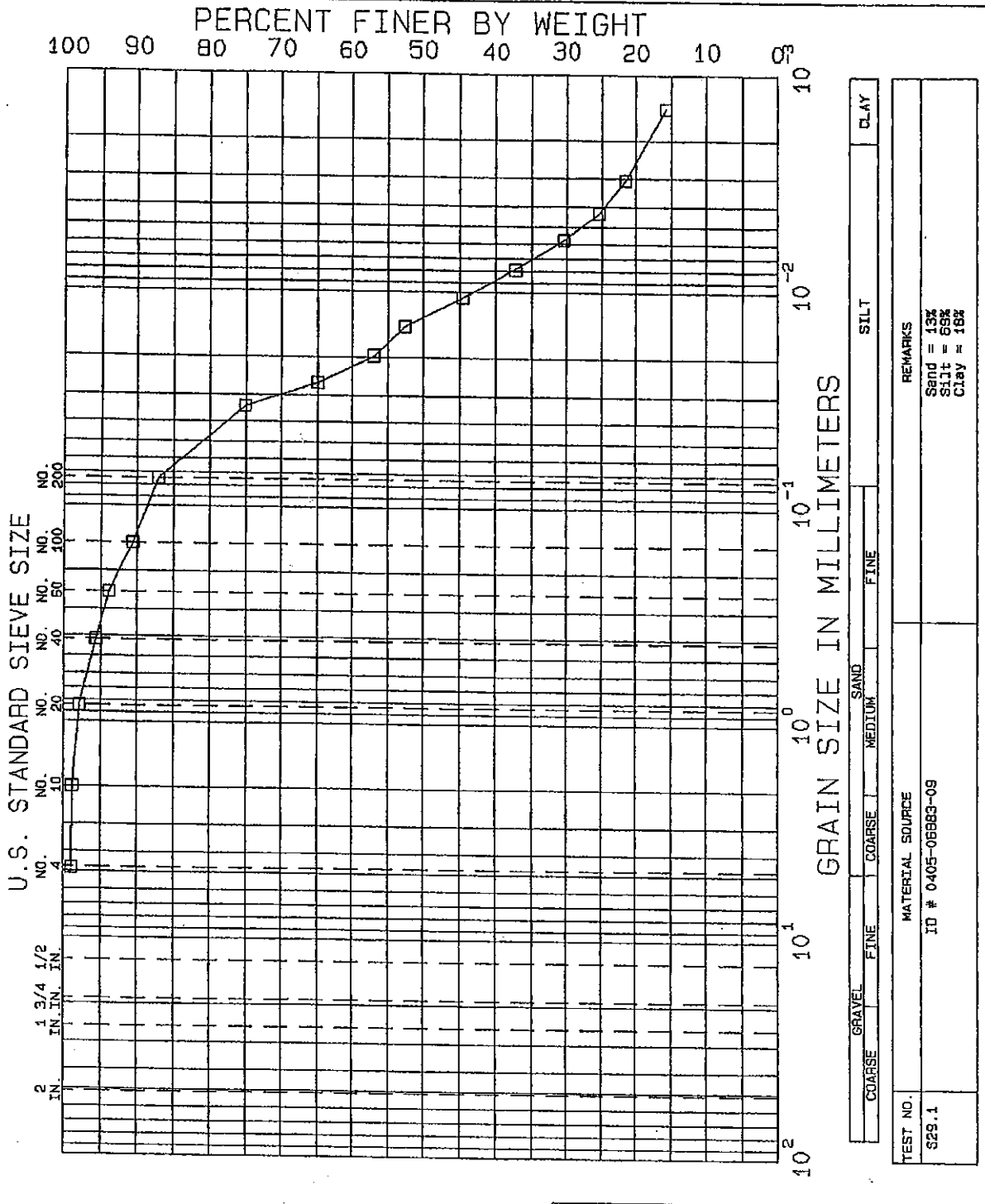


TEST NO. S28.1	MATERIAL SOURCE ID # 0405-06883-08	REMARKS Sand = 4% Silt = 78% Clay = 18%	GRAVEL	SAND			SILT		CLAY
			COARSE	FINE	COARSE	MEDIUM	FINE		

RHODE ISLAND ANALYTICAL
WD # 0405-06883
GRADATION TESTS

BORING NO. _____	TEST SERIES _____
SAMPLE SB	NO. 28
DEPTH _____	DATE May 04
TECH. PEC	FILE 16872.00
REVIEWER OAS	

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS



RHODE ISLAND ANALYTICAL
 WO # 0405-06883
 GRADATION TESTS

BORING NO.	TEST SERIES
SAMPLE SS	NO. 29
DEPTH	DATE May 04
TECH. PEC	FILE 16872.00
REVIEWER OAS	

CHAIN OF CUSTODY RECORD

RI Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

Date Sample Collected: 5/12
Time Sampled: 13:20
Matrix Code: S1

Date Sample Collected	Time Sampled	Matrix Code	Grab or Composite	# of Containers & Type	Preservation Code	Matrix Code	Grain size	ERH w/target PAH	PCBs	Pesticides	TOC	PAH (8270,8100)	Conductivity	Reactive Sulfides	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	VOCs
5/12	13:20	S1	Grab	2 bags	EA	S	X																
	12:25	S2A	Composite																				
	11:40	S3	Composite																				
	13:00	S4	Composite																				
	13:40	S5	Composite																				
	14:05	S6	Composite																				
	14:30	S7	Composite																				
	12:40	S8	Composite																				
	12:15	S2B	Composite																				

Company Name: **Norfolk Ram Group**
Address: **One Roberts Way**
City / State / Zip: **Plymouth, MA 02360**
Telephone: **508-747-7900** Fax: **508-747-3658**
Contact Person: **Ellen Blackman**

Project Name: **Green Harbor Marina, Marshfield**
P.O. Number: **776.2.1** Project Number: **776.2.1**
Report To: **J. Salvetti** Phone: **508-747-7900** Fax: **508-747-3658**
Sampled by: **E. Blackburn**
Quote No: **0405-0688** Email address: **jsalvetti@norkram.com**

5/13/07	1100	D. DeFrancesco	5/13/04	1100
5/13/04	1620	L.R. Ray	5/13/04	1620

Circle if applicable: GW-1, GW-2, GW-3, (S-1) S-2, S-3 MCP Data Enhancement QC Package? (Yes) No
Please run grain size only & hold other analyses until requested (based on grain size results)

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, ST=Sterile
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, St=Sludge, A=Air, B=Bulk/Solid, O=

Workorder No: **0405-0688**
Normal EMAIL Report
5 Business days. Possible surcharge
Rush (business days)
Sample Pick Up Only
RIAL sampled; attach field hours
Shipped on ice



R.I. Analytical

Specialists in Environmental Services

1 of 6

CERTIFICATE OF ANALYSIS

Norfolk Ram Group
Attn: Mr. Joe Salvetti
One Roberts Road
Plymouth, MA 02360

Date Received: 05/13/2004
Date Reported: 06/11/2004
P.O. #: 776.2.1
Work Order #: 0405-06882

DESCRIPTION: PROJECT# 776.2.1 GREEN HARBOR MARINA MARSHFIELD

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory and our subcontracted laboratory with the attached results.

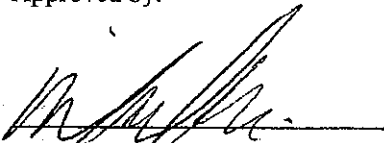
Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:


Data Reporting

enc: Chain of Custody


41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Norfolk Ram Group
 Date 05/13/2004
 Work Order #: 0405-06882

Approved by: 
 Data Reporting

Sample # 001
 SAMPLE DESCRIPTION: S-1 - S2B
 SAMPLE TYPE: COMPOSITE

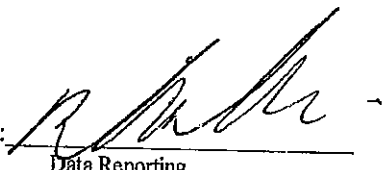
SAMPLE DATE/TIME: 05/25/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
PCB Congeners	*			8082	06/09/2004	SUB
SPECIFIC CONDUCTANCE	3200	1.0	uMHOS/CM	SM2510 B	05/26/2004	LKS
REACTIVITY CN & S SOILS						
SULFIDE REACTIVITY	38000	2.5	mg/kg	SW-846 7.3.4	05/26/2004	EC
TOC	1.0	0.10	%	EPA 415.1	05/26/2004	CCP
PESTICIDES						
Aldrin	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Alpha-BHC	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Beta-BHC	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Delta-BHC	0.02	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Gamma-BHC	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Chlordane	<0.05	0.05	mg/kg dry	SW-846 8080	05/28/2004	TRA
4-4'-DDD	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
4-4'-DDE	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
4-4'-DDT	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Dieldrin	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Endosulfan I	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Endosulfan II	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Endosulfan Sulfate	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Endrin	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Endrin Aldehyde	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Heptachlor	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Heptachlor epoxide	<0.01	0.01	mg/kg dry	SW-846 8080	05/28/2004	TRA
Methoxychlor	<0.05	0.05	mg/kg dry	SW-846 8080	05/28/2004	TRA
Toxaphene	<0.5	0.5	mg/kg dry	SW-846 8080	05/28/2004	TRA
MOISTURE	57		%	SM2540 G.	05/25/2004	GM
SURROGATE			RANGE	SW-846 8080	05/28/2004	TRA
Tetrachloro-m-xylene (TCMX)	82		30-150%	SW-846 8080	05/28/2004	TRA
Decachlorobiphenyl	66		30-150%	SW-846 8080	05/28/2004	TRA
EPH/PAH						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	05/28/2004	RJP
C19-C36 Aliphatics	17	10	mg/kg dry	MADEP	05/28/2004	RJP
C11-C22 Aromatics	<10	10	mg/kg dry	MADEP	05/28/2004	RJP
Total EPH	17		mg/kg dry	MADEP	05/28/2004	RJP
TARGET PAH ANALYTES						
Naphthalene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
2-Methylnaphthalene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Acenaphthylene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Acenaphthene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Norfolk Ram Group
 Date 05/13/2004
 Work Order #: 0405-06882

Approved by: 
 Data Reporting

Sample # 001
 SAMPLE DESCRIPTION: S-1 - S2B
 SAMPLE TYPE: COMPOSITE

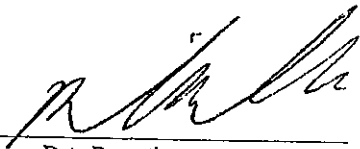
SAMPLE DATE/TIME: 05/25/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Fluorene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Phenanthrene	0.03	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Anthracene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Fluoranthene	0.05	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Pyrene	0.06	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Benzo(a)anthracene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Chrysene	0.03	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Benzo(b)fluoranthene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Benzo(k)fluoranthene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Benzo(a)pyrene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Indeno(1,2,3-cd)pyrene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Dibenzo(a,h)anthracene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
Benzo(g,h,i)perylene	<0.02	0.02	mg/kg dry	MADEP	05/28/2004	RJP
MOISTURE	57		%	SM2540 G.	05/25/2004	GM
SURROGATES			RANGE		05/28/2004	RJP
Chloro-octadecane	90		40-140%	MADEP	05/28/2004	RJP
Ortho-terphenyl	92		40-140%	MADEP	05/28/2004	RJP
FRACTIONATION SURROGATES			RANGE		05/28/2004	RJP
2-Fluorobiphenyl	95		40-140%	MADEP	05/28/2004	RJP
2-Bromonaphthalene	85		40-140%	MADEP	05/28/2004	RJP
Extraction date	Extracted			MADEP	05/26/2004	GM
PAH						
Naphthalene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Acenaphthylene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Acenaphthene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Fluorene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Phenanthrene	0.03	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Anthracene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Fluoranthene	0.05	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Pyrene	0.06	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Benzo(a)anthracene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Chrysene	0.03	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Benzo(b)fluoranthene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Benzo(k)fluoranthene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Benzo(a)pyrene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Indeno(1,2,3-cd)pyrene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Dibenzo(a,h)anthracene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Benzo(g,h,i)perylene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
2-Methylnaphthalene	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
Dibenzofuran	<0.02	0.02	mg/kg dry	SW-846 8270C	05/27/2004	DMM
MOISTURE	57		%	SM2540 G.	05/25/2004	GM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Norfolk Ram Group
 Date 05/13/2004
 Work Order #: 0405-06882

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: S-1 - S2B

SAMPLE TYPE: COMPOSITE

SAMPLE DATE/TIME: 05/25/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SURROGATES						
Nitrobenzene-d5	63		RANGE	SW-846 8270C	05/27/2004	DMM
2-Fluorobiphenyl	69		23-120%	SW-846 8270C	05/27/2004	DMM
P-Terphenyl-d14	99		30-115%	SW-846 8270C	05/27/2004	DMM
Extraction date	Extracted		18-137%	SW-846 8270C	05/27/2004	DMM
				SW846 3550	05/25/2004	JB
TOTAL METALS						
ARSENIC	10	0.50	mg/kg dry	EPA 200.9	06/01/2004	VIK
CADMIUM	0.82	0.06	mk/kg dry	EPA 200.9	06/01/2004	VIK
CHROMIUM	63	0.23	mg/kg dry	EPA 200.9	05/28/2004	VIK
COPPER	68	0.23	mg/kg dry	EPA 200.9	06/01/2004	KSL
LEAD	44	0.23	mg/kg dry	EPA 200.9	06/01/2004	VIK
MERCURY	0.20	0.02	mg/kg dry	SW-846 7471A	05/26/2004	NMC
NICKEL	17	2.3	mg/kg dry	SW-846 6010	06/02/2004	JNB
ZINC	160	1.0	mg/kg dry	SW-846 6010	06/02/2004	JNB

Specific Conductance - Analyzed 5 grams of sample per 50 mls of Type II DI water.

All QA/QC procedures required by the EPH Method were followed. All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.

No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

* See Attached

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Norfolk Ram Group
 Date 05/13/2004
 Work Order #: 0405-06882

Approved by: 

Data Reporting

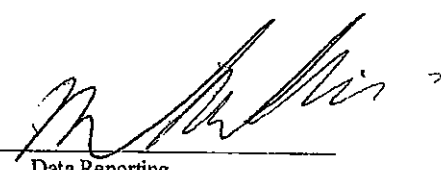
Sample # 002
 SAMPLE DESCRIPTION: S-1 - S2B
 SAMPLE TYPE: MULTI GRAB/COMPOSITE SAMPLE DATE/TIME: 05/25/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Volatile Organic Compounds						
Benzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Bromobenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Bromochloromethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Bromodichloromethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Bromoform	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Bromomethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
n-Butylbenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
sec-Butylbenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
tert-Butylbenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Carbon Tetrachloride	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Chlorobenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Chloroethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Chloroform	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Chloromethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
2-Chlorotoluene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
4-Chlorotoluene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Dibromochloromethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2-Dibromo-3-Chloropropane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2-Dibromoethane(EDB)	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Dibromomethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2-Dichlorobenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,3-Dichlorobenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,4-Dichlorobenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Dichlorodifluoromethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,1-Dichloroethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2-Dichloroethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,1-Dichloroethene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
cis-1,2-Dichloroethene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
trans-1,2-Dichloroethene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2-Dichloropropane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,3-Dichloropropane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
2,2-Dichloropropane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,1-Dichloropropene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Ethylbenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Hexachlorobutadiene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Isopropylbenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
p-Isopropyltoluene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Methylene Chloride	0.4	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Naphthalene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
n-Propylbenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Norfolk Ram Group
 Date 05/13/2004
 Work Order #: 0405-06882

Approved by: 
 Data Reporting

Sample # 002
 SAMPLE DESCRIPTION: S-1 - S2B
 SAMPLE TYPE: MULTI GRAB/COMPOSITE SAMPLE DATE/TIME: 05/25/2004

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Styrene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,1,1,2-Tetrachloroethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,1,2,2-Tetrachloroethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Tetrachloroethene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Toluene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2,3-Trichlorobenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2,4-Trichlorobenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,1,1-Trichloroethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,1,2-Trichloroethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Trichloroethene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Trichlorofluoromethane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2,3-Trichloropropane	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,2,4-Trimethylbenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
1,3,5-Trimethylbenzene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
Vinyl Chloride	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
o-Xylene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
m&p-Xylene	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
MTBE	<0.1	0.1	mg/kg dry	5035/8260B	05/26/2004	AMT
MOISTURE	57		%	SM2540 G.	05/25/2004	GM
SURROGATES			RANGE	5035/8260B	05/26/2004	AMT
Dibromofluoromethane	110		80-120%	5035/8260B	05/26/2004	AMT
Toluene-d8	99		81-117%	5035/8260B	05/26/2004	AMT
4-Bromofluorobenzene	85		74-121%	5035/8260B	05/26/2004	AMT
1,2 Dichloroethane-d4	103		80-120%	5035/8260B	05/26/2004	AMT



PCB Congeners by 8082

Client: **R.I. Analytical Laboratories**
 Project: **0405-06882**
 Client ID: **0405-06882-001**
 Case: **N/A** SDG: **N/A**
 Matrix: **Soil**

Lab Code: **MA00030**
 ETR: **0405078**
 Lab ID: **0405078-01**
 Associated Blank: **PS060704B18**
 Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
05/25/04	05/26/04	06/07/04	06/09/04	42.9	5.23	1	1	TLB

Parameter	Result
BZ 8	0.45 U
BZ 18	0.45 U
BZ 28	0.45 U
BZ 44	0.45 U
BZ 49	0.45 U
BZ 52	0.45 U
BZ 66	0.45 U
BZ 87	0.45 U
BZ 101	0.45 U
BZ 105	0.45 U
BZ 118	0.45 U
BZ 128	0.45 U
BZ 138	0.45 U
BZ 153	0.45 U
BZ 170	0.45 U
BZ 180	0.45 U
BZ 183	0.45 U
BZ 184	0.45 U
BZ 187	0.45 U
BZ 195	0.45 U
BZ 206	0.45 U
BZ 209	0.85

Surrogate	% Recovery	Acceptance Range (%)
DBOB	58	30-150
BZ 198	77	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
 N/A - Not Applicable

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

Date Sample Collected: 5/12/07
Time Sample Collected: 13:20

Date	Time	Grab or Composite	# of Containers & Type	Preservation Code	Matrix Code	Grain Size	PCBs	Pesticides	TOC	PAH (270, 8100)	Conductivity	Reactive Sulphides	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	VOCs (5035, 0)	
5/12	13:20	SI	246	SI	S	200																
	12:25	S2A	100			100																
	11:40	S3	100			100																
	13:00	S4	100			100																
	13:40	S5	100			100																
	14:05	S6	100			100																
	14:30	S7	100			100																
	12:40	S8	100			100																
	12:15	S2B	100			100																

Company Name: **Norfolk Ram Group**
Address: **One Roberts Way**
City/State/Zip: **Plymouth, MA 02360**
Telephone: **508-747-7900**
Fax: **508-747-3658**
Contact Person: **Ellen Blackburn**

Project Name: **Green Harbor Marina, Marshfield**
P.O. Number: **776-2-1**
Report To: **J. Salvetti**
Sampled by: **E. Blackburn**
Quote No: **508-747-3658**

Project Number: **776.2-1**
Phone: **508-747-7400**
Fax: **508-747-3658**
Email address: **jsalvetti@norfolkram.com**

Normal	EMAIL Report
<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Business days. Possible surcharge	
Rush _____ (business days)	

Circle if applicable: GW-1, GW-2, GW-3, (S-1) S-2, S-3 MCP Data Enhancement QC Package? (Yes) No

Please run grain size only & hold other analyses until requested (based on grain size results) **WAMP**

Composite all nine samples & run as one sample - per JMick. 5/15/07

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=

Preservation Codes: NP=None, N=HNO₃, H=HCl, S=H₂SO₄, SH=NaOH, SB=NaHSO₄, M=MeOH, T=Na₂S₂O₃, Z=ZnOAc, F=Ice

Sample Pick Up Only
REAL samples, attach field hours
Shipped on ice
Workorder No: **0405-6882**

CHAIN OF CUSTODY RECORD

R.J. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type ^T	Preservation Code ^P	Matrix Code ^M	Grain size	EPH w/target PAH	PCBs	Pesticides	TOC	PAH (8270,8100)	Conductivity	Reactive sulfides	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	VOCs	
5/12	13:20	S1	206/EA	S			X																	
	12:25	S2A																						
	11:40	S3	Composite																					
	13:00	S4																						
	13:40	S5																						
	14:05	S6																						
	14:30	S7																						
	12:40	S8	Composite																					
	12:15	S2B																						

Event Information

Company Name: **Norfolk Ram Group**
Address: **One Roberts Way**
City / State / Zip: **Plymouth, MA 02360**
Telephone: **508-747-7900** Fax: **508-747-3658**
Contact Person:

Project Name: **Green Harbor Marina, Marshfield**
P.O. Number: **776-2-1** Project Number: **776.2-1**
Report To: **J. Salvetti** Phone: **508-747-7400** Fax: **508-747-3658**
Sampled by: **E. Blackburn** Email address: **jsalvetti@norkram.com**
Quote No:

Relinquished By	Date	Time	Received By	Date	Time
<i>Ellen Blackburn</i>	5/13/04	1100	D. DeFrancesco	5.13.04	1100
D. DeFrancesco	5.13.04	1620	L.R. Ray	5/13/04	1620

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, (S-1), S-2, S-3 **MCP Data Enhancement QC Package?** (Yes) **No**
Please run grain size only + hold other analyses until requested (based on grain size results)

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SI=Sludge, A=Air, B=Bulk/Solid, O=

Preservation Codes: NP=None, N=HNO₃, H=HCl, S=H₂SO₄, SH=NaOH, SB=NaHSO₄, M=MeOH, T=Na₂S₂O₅, Z=ZnOAc, J=Ice

Normal EMAIL Report
Rush 5 Business days. Possible surcharge (business days)

Sample Pick Up Only
RIAL sampled; attach field hours
Shipped on ice
Workorder No: **0405-0882**

**RI Analytical Laboratories, Inc.
QA/QC Report**

Client: Norfolk Ram Group
W.O. #: 0405-06882
Date: 06/14/04

-Method Blank Results-

Parameter	Units	Results	Date Analyzed
Arsenic	mg/kg dry	<0.25	06/01/2004
Cadmium	mg/kg dry	<0.025	06/01/2004
Chromium	mg/kg dry	<0.1	05/28/2004
Copper	mg/kg dry	<1.0	06/01/2004
Lead	mg/kg dry	<0.1	06/01/2004
Mercury	mg/kg dry	<0.25	05/26/2004
Nickel	mg/kg dry	<0.95	06/02/2004
Zinc	mg/kg dry	<0.95	06/02/2004

Parameter	Units	Results	Date Analyzed
Sulfide Reactivity	mg/kg	<2.5	05/26/2004
Specific Conductance	uMHOS/CM	<1.0	05/26/2004
TOC	%	<0.10	05/26/2004

-Laboratory Control Standard-

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Arsenic	mg/kg dry	1.0	1.1	110	06/01/2004
Cadmium	mg/kg dry	1.0	0.95	95	06/01/2004
Chromium	mg/kg dry	1.0	1.1	110	05/28/2004
Copper	mg/kg dry	1.0	1.1	110	06/01/2004
Lead	mg/kg dry	1.0	0.95	95	06/01/2004
Mercury	mg/kg dry	0.40	0.409	102	05/26/2004
Nickel	mg/kg dry	48	51	106	06/02/2004
Zinc	mg/kg dry	48	46	96	06/02/2004

RI Analytical Laboratories, Inc.
QA/QC Report

Client: Norfolk Ram Group
W.O. #: 0405-06882
Date: 06/14/04

-Replicate Sample Results-

Parameter	Units	Sample #	Rep. 1 Conc.	Rep. 2 Conc.	Mean Conc.	Reported Value	RPD	Date Analyzed
Arsenic	mg/kg dry	6882-1	10	10	10	10	0	06/01/2004
Cadmium	mg/kg dry	6882-1	0.83	0.82	0.82	0.82	1	06/01/2004
Chromium	mg/kg dry	6882-1	62	64	63	63	3	05/28/2004
Copper	mg/kg dry	6882-1	76	59	68	68	25	06/01/2004
Lead	mg/kg dry	6882-1	45	44	44	44	2	06/01/2004
Mercury	mg/kg dry	6882-1	0.19	0.21	0.20	0.20	10	05/26/2004
Nickel	mg/kg dry	6882-1	17	17	17	17	0	06/02/2004
Zinc	mg/kg dry	6882-1	160	160	160	160	0	06/02/2004

Parameter	Units	Sample #	Rep 1 Conc.	Rep 2 Conc.	Mean Conc.	Reported Value	RPD	Date Analyzed
Sulfide Reactivity	mg/kg	6882-1	39000	38000	38500	38000	2	05/26/2004
Specific Conductance	uMHOS/CM	6882-1	3200	3200	3200	3200	0	05/26/2004
TOC	%	6882-1	1.1	1.0	1.05	1.0	10	05/26/2004

-Matrix Spike Results-

Parameter	Units	Sample #	Sample Conc.	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Arsenic	mg/kg dry	6882-1	10	2.3	13	130	06/01/2004
Cadmium	mg/kg dry	6882-1	0.82	2.3	3.0	95	06/01/2004
Chromium	mg/kg dry	6882-1	63	115	170	93	05/28/2004
Copper	mg/kg dry	6882-1	68	46	110	91	06/01/2004
Lead	mg/kg dry	6882-1	44	46	87	93	06/01/2004
Mercury	mg/kg dry	6882-1	0.20	0.155	0.388	121	05/26/2004
Nickel	mg/kg dry	6882-1	17	120	120	86	06/02/2004
Zinc	mg/kg dry	6882-1	160	120	240	67	06/02/2004

Parameter	Units	Sample #	Sample Conc.	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Sulfide Reactivity	mg/kg	7531-10	<2.5	29.62	27.15	92	05/26/2004
Specific Conductance	uMHOS/CM	LCS	----	1026	1030	100	05/26/2004
TOC	%	6882-1	1.0	1.85	3.0	108	05/26/2004

PESTICIDE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICAL

CLIENT: NORFOLK RAM GROUP

Date: 06/01/04

W.O #: 0405-06882

COMPOUND

CONCENTRATION UNITS:
mg/kg dry

alpha-BHC		<0.01
beta-BHC		<0.01
delta-BHC		<0.01
gamma-BHC (Lindane)		<0.01
Heptachlor		<0.01
Aldrin		<0.01
Heptachlor epoxide		<0.01
Endosulfan I		<0.01
Dieldrin		<0.01
4,4'-DDE		<0.01
Endrin		<0.01
Endosulfan II		<0.01
4,4'-DDD		<0.01
Endosulfan sulfate		<0.01
4,4'-DDT		<0.01
Methoxychlor		<0.05
Endrin aldehyde		<0.01
Chlordane		<0.05
Toxaphene		<0.5
Tetrachloro-m-xylene	(30-150%)	84
Decachlorobiphenyl	(30-150%)	72

PESTICIDE ORGANICS LCS DATA SHEET

Lab Name: RI ANALYTICAL

Client: NORFOLK RAM GROUP

W.O. # 0405-06882

COMPOUND	SPIKE ADDED mg/kg dry	AMOUNT DETECTED mg/kg dry	% RECOVERY
alpha-BHC	0.033	0.027	82
beta-BHC	0.033	0.026	79
delta-BHC	0.033	0.027	82
gamma-BHC (Lindane)	0.033	0.029	88
Heptachlor	0.033	0.035	106
Aldrin	0.033	0.027	82
Heptachlor epoxide	0.033	0.029	88
Endosulfan I	0.033	0.028	85
Dieldrin	0.033	0.030	91
4,4'-DDE	0.033	0.025	76
Endrin	0.033	0.037	112
Endosulfan II	0.033	0.026	79
4,4'-DDD	0.033	0.028	85
Endosulfan sulfate	0.033	0.029	88
4,4'-DDT	0.033	0.047	142
Methoxychlor	0.033	0.044	133
Endrin aldehyde	0.033	0.024	73
Tetrachloro-m-xylene (30-150%)			80
Decachlorobiphenyl (30-150%)			78

PESTICIDE ORGANICS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Client: NORFOLK RAM GROUP

Duplicate Sample # 0405-06882-001

W.O. #: 0405-06882

COMPOUND	SAMPLE	DUPLICATE	REPORTED		
	RESULT	SAMPLE	MEAN	VALUE	RPD
	ug/l	RESULT			
	ug/l				
alpha-BHC	<0.01	<0.01	<0.01	<0.01	0
beta-BHC	<0.01	<0.01	<0.01	<0.01	0
delta-BHC	0.019	0.028	0.0235	0.02	38
gamma-BHC (Lindane)	<0.01	<0.01	<0.01	<0.01	0
Heptachlor	<0.01	<0.01	<0.01	<0.01	0
Aldrin	<0.01	<0.01	<0.01	<0.01	0
Heptachlor epoxide	<0.01	<0.01	<0.01	<0.01	0
Endosulfan I	<0.01	<0.01	<0.01	<0.01	0
Dieldrin	<0.01	<0.01	<0.01	<0.01	0
4,4'-DDE	<0.01	<0.01	<0.01	<0.01	0
Endrin	<0.01	<0.01	<0.01	<0.01	0
Endosulfan II	<0.01	<0.01	<0.01	<0.01	0
4,4'-DDD	<0.01	<0.01	<0.01	<0.01	0
Endosulfan sulfate	<0.01	<0.01	<0.01	<0.01	0
4,4'-DDT	<0.01	<0.01	<0.01	<0.01	0
Methoxychlor	<0.05	<0.05	<0.05	<0.05	0
Endrin aldehyde	<0.01	<0.01	<0.01	<0.01	0
Chlordane	<0.05	<0.05	<0.05	<0.05	0
Toxaphene	<0.5	<0.5	<0.5	<0.5	0
Tetrachloro-m-xylene	(30-150%)	82	81		
Decachlorobiphenyl	(30-150%)	66	62		

PESTICIDE ORGANICS MATRIX SPIKE DATA SHEET

Lab Name: RI ANALYTICAL

Client: NORFOLK RAM GROUP

Matrix Spike Sample # 0405-06882-001

W.O. # 0405-06882

COMPOUND	SAMPLE CONC. mg/kg dry	SPIKE ADDED mg/kg dry	AMOUNT DETECTED mg/kg dry	% RECOVERY
alpha-BHC	<0.01	0.034	0.034	100
beta-BHC	<0.01	0.034	0.056	165
delta-BHC	0.02	0.034	0.075	162
gamma-BHC (Lindane)	<0.01	0.034	0.038	112
Heptachlor	<0.01	0.034	0.019	56
Aldrin	<0.01	0.034	0.023	68
Heptachlor epoxide	<0.01	0.034	0.026	76
Endosulfan I	<0.01	0.034	0.024	71
Dieldrin	<0.01	0.034	0.028	82
4,4'-DDE	<0.01	0.034	0.028	82
Endrin	<0.01	0.034	0.035	103
Endosulfan II	<0.01	0.034	0.022	65
4,4'-DDD	<0.01	0.034	0.042	124
Endosulfan sulfate	<0.01	0.034	0.028	82
4,4'-DDT	<0.01	0.034	0.003	9
Methoxychlor	<0.05	0.034	0.001	3
Endrin aldehyde	<0.01	0.034	0.006	18
Tetrachloro-m-xylene (30-150%)				86
Decachlorobiphenyl (30-150%)				68

RI Analytical Laboratories, Inc.
QA/QC Report

Client: Norfolk Ram Group
W.O.#: 0405-06882
Date: 06/14/04

-EPH Method Blank Results-

Parameter	Units	Results	Date Analyzed
C9-C18 Aliphatics(FID)	mg/kg dry	<10	05/28/2004
C19-C36 Aliphatics(FID)	mg/kg dry	<10	05/28/2004
C11-C22 Aromatics(PID)	mg/kg dry	<10	05/28/2004
EXTRACTION SURROGATE			
Chloro-octadecane	(40-140%)	97	05/28/2004
Ortho-terphenyl	(40-140%)	92	05/28/2004
FRACTIONATION SURROGATE			
2-Fluorobiphenyl	(40-140%)	97	05/28/2004
2-Bromonaphthalene	(40-140%)	87	05/28/2004

-EPH Replicate Sample Results-

Parameter	Units	Sample #	Rep 1 Conc.	Rep 2 Conc.	Mean Conc.	Reported Value	RPD	Date Analyzed
C9-C18 Aliphatics(FID)	mg/kg dry	6882-1	<10	<10	<10	<10	0	05/28/2004
C19-C36 Aliphatics(FID)	mg/kg dry	6882-1	19	15	17	17	24	05/28/2004
C11-C22 Aromatics(PID)	mg/kg dry	6882-1	<10	<10	<10	<10	0	05/28/2004
EXTRACTION SURROGATE								
Chloro-octadecane	(40-140%)		90	88				05/28/2004
Ortho-terphenyl	(40-140%)		92	92				05/28/2004
FRACTIONATION SURROGATE								
2-Fluorobiphenyl	(40-140%)		95	92				05/28/2004
2-Bromonaphthalene	(40-140%)		85	87				05/28/2004

-EPH LCS Results-

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
C9-C18 Aliphatics(FID)	mg/kg dry	20	12.6	63	05/28/2004
C19-C36 Aliphatics(FID)	mg/kg dry	27	19.5	72	05/28/2004
C11-C22 Aromatics(PID)	mg/kg dry	57	42.5	74	05/28/2004
EXTRACTION SURROGATE					
Chloro-octadecane	(40-140%)			90	05/28/2004
Ortho-terphenyl	(40-140%)			94	05/28/2004
FRACTIONATION SURROGATE					
2-Fluorobiphenyl	(40-140%)			94	05/28/2004
2-Bromonaphthalene	(40-140%)			87	05/28/2004

RI Analytical Laboratories, Inc.
QA/QC Report

Client: Norfolk Ram Group
W.O.#: 0405-06882
Date: 06/14/04

-EPH Matrix Spike Results-

Parameter	Units	Sample #	Sample Conc.	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
C9-C18 Aliphatics(FID)	mg/kg dry	6882-1	<10	20	12.9	64	05/28/2004
C19-C36 Aliphatics(FID)	mg/kg dry	6882-1	17	26	36.0	73	05/28/2004
C11-C22 Aromatics(PID)	mg/kg dry	6882-1	<10	56	51.4	92	05/28/2004
EXTRACTION SURROGATE							
Chloro-octadecane	(40-140%)					82	05/28/2004
Ortho-terphenyl	(40-140%)					96	05/28/2004
FRACTIONATION SURROGATE							
2-Fluorobiphenyl	(40-140%)					97	05/28/2004
2-Bromonaphthalene	(40-140%)					94	05/28/2004

METHOD 8270

SEMI-VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICALCLIENT: NORFOLK RAM GROUPW.O #: 0405-06882

COMPOUND

CONCENTRATION UNITS:
mg/kg dry

Naphthalene	<0.7
Acenaphthylene	<0.7
Acenaphthene	<0.7
Fluorene	<0.7
Phenanthrene	<0.7
Anthracene	<0.7
Fluoranthene	<0.7
Pyrene	<0.7
Benzo(a)anthracene	<0.7
Chrysene	<0.7
Benzo(b)fluoranthene	<0.7
Benzo(k)fluoranthene	<0.7
Benzo(a)pyrene	<0.7
Indeno(1,2,3-cd)pyrene	<0.7
Dibenzo(a,h)anthracene	<0.7
Benzo(g,h,i)perylene	<0.7
2-Methylnaphthalene	<0.7
Dibenzofuran	<0.7
Nitrobenzene-d5	63
2-Fluorobiphenyl	70
P-Terphenyl-d14	81

METHOD 8270

SEMI-VOLATILE ORGANICS LCS DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPW.O. # 0405-06882

COMPOUND	SPIKE ADDED	AMOUNT DETECTED	% RECOVERY
	mg/kg dry	mg/kg dry	
Naphthalene	3.3	2.5	76
Acenaphthylene	3.3	2.5	76
Acenaphthene	3.3	2.5	76
Fluorene	3.3	2.5	76
Phenanthrene	3.3	2.9	88
Anthracene	3.3	2.7	82
Fluoranthene	3.3	2.7	82
Pyrene	3.3	2.6	79
Benzo(a)anthracene	3.3	2.6	79
Chrysene	3.3	2.7	82
Benzo(b)fluoranthene	3.3	2.2	67
Benzo(k)fluoranthene	3.3	2.6	79
Benzo(a)pyrene	3.3	2.5	76
Indeno(1,2,3-cd)pyrene	3.3	3.6	109
Dibenzo(a,h)anthracene	3.3	3.7	112
Benzo(g,h,i)perylene	3.3	3.9	118
2-Methylnaphthalene	3.3	2.7	82
Dibenzofuran	3.3	2.5	76
Nitrobenzene-d5			59
2-Fluorobiphenyl			67
P-Terphenyl-d14			77

METHOD 8270

SEMI-VOLATILE ORGANICS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPDuplicate Sample # 0405-06882-001W.O. # 0405-06882

COMPOUND	DUPLICATE		MEAN	REPORTED VALUE	RPD
	SAMPLE RESULT mg/kg dry	SAMPLE RESULT mg/kg dry			
Naphthalene	<0.02	<0.02	<0.02	<0.02	0
Acenaphthylene	<0.02	<0.02	<0.02	<0.02	0
Acenaphthene	<0.02	<0.02	<0.02	<0.02	0
Fluorene	<0.02	<0.02	<0.02	<0.02	0
Phenanthrene	<0.02	<0.02	<0.02	<0.02	0
Anthracene	<0.02	<0.02	<0.02	<0.02	0
Fluoranthene	<0.02	<0.02	<0.02	<0.02	0
Pyrene	<0.02	<0.02	<0.02	<0.02	0
Benzo(a)anthracene	<0.02	<0.02	<0.02	<0.02	0
Chrysene	<0.02	<0.02	<0.02	<0.02	0
Benzo(b)fluoranthene	<0.02	<0.02	<0.02	<0.02	0
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	0
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	0
Indeno(1,2,3-cd)pyrene	<0.02	<0.02	<0.02	<0.02	0
Dibenzo(a,h)anthracene	<0.02	<0.02	<0.02	<0.02	0
Benzo(g,h,i)perylene	<0.02	<0.02	<0.02	<0.02	0
2-Methylnaphthalene	<0.02	<0.02	<0.02	<0.02	0
Dibenzofuran	<0.02	<0.02	<0.02	<0.02	0
Nitrobenzene-d5	63	60			
2-Fluorobiphenyl	69	75			
P-Terphenyl-d14	99	111			

METHOD 8270

SEMI-VOLATILE ORGANICS MATRIX SPIKE DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPMatrix Spike Sample # 0405-06882-001W.O. # 0405-06882

COMPOUND	SAMPLE CONC. mg/kg dry	SPIKE ADDED mg/kg dry	AMOUNT DETECTED mg/kg dry	% RECOVERY
Naphthalene	<0.02	3.4	2.6	76
Acenaphthylene	<0.02	3.4	2.5	74
Acenaphthene	<0.02	3.4	2.6	76
Fluorene	<0.02	3.4	2.5	74
Phenanthrene	<0.02	3.4	3.2	94
Anthracene	<0.02	3.4	3.1	91
Fluoranthene	<0.02	3.4	3.1	91
Pyrene	<0.02	3.4	3.4	100
Benzo(a)anthracene	<0.02	3.4	3.0	88
Chrysene	<0.02	3.4	3.1	91
Benzo(b)fluoranthene	<0.02	3.4	3.0	88
Benzo(k)fluoranthene	<0.02	3.4	3.2	94
Benzo(a)pyrene	<0.02	3.4	2.8	82
Indeno(1,2,3-cd)pyrene	<0.02	3.4	1.8	53
Dibenzo(a,h)anthracene	<0.02	3.4	1.9	56
Benzo(g,h,i)perylene	<0.02	3.4	1.6	47
2-Methylnaphthalene	<0.02	3.4	2.6	76
Dibenzofuran	<0.02	3.4	2.6	76
Nitrobenzene-d5				57
2-Fluorobiphenyl				69
P-Terphenyl-d14				96

VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPW.O. # 0405-06882

COMPOUND	CONCENTRATION UNITS:
	mg/kg dry
Dichlorodifluoromethane	<0.5
Chloromethane	<0.5
Vinyl Chloride	<0.2
Bromomethane	<1.0
Chloroethane	<0.5
Trichlorofluoromethane	<0.2
1,1-Dichloroethene	<0.2
Methylene Chloride	<0.5
Methyl tert-Butyl Ether (MTBE)	<0.4
trans-1,2-Dichloroethene	<0.2
1,1-Dichloroethane	<0.2
cis-1,2-Dichloroethene	<0.2
2,2-Dichloropropane	<0.2
Bromochloromethane	<0.4
Chloroform	<0.2
1,1,1-Trichloroethane	<0.2
1,1-Dichloropropene	<0.2
Carbon Tetrachloride	<0.2
Benzene	<0.2
1,2-Dichloroethane	<0.2
Trichloroethene	<0.2
1,2-Dichloropropane	<0.2
Dibromomethane	<0.2
Bromodichloromethane	<0.2
Toluene	<0.2
1,1,2-Trichloroethane	<0.2
Tetrachloroethene	<0.2
1,3-Dichloropropane	<0.2
Dibromochloromethane	<0.2
1,2-Dibromomethane (EDB)	<0.2
Chlorobenzene	<0.2
Ethylbenzene	<0.2
1,1,1,2-Tetrachloroethane	<0.2
m&p-Xylene	<0.2
o-Xylene	<0.2
Styrene	<0.2
Bromoform	<0.2

VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPW.O.#: 0405-06882

COMPOUND	CONCENTRATION UNITS:
	mg/kg dry
Isopropylbenzene	<0.2
1,1,2,2-Tetrachloroethane	<0.2
Bromobenzene	<0.2
n-Propylbenzene	<0.2
1,2,3-Trichloropropane	<0.2
2-Chlorotoluene	<0.2
1,3,5-Trimethylbenzene	<0.2
4-Chlorotoluene	<0.2
tert-Butylbenzene	<0.2
1,2,4-Trimethylbenzene	<0.2
sec-Butylbenzene	<0.2
p-Isopropyltoluene	<0.2
1,3-Dichlorobenzene	<0.2
1,4-Dichlorobenzene	<0.2
n-Butylbenzene	<0.2
1,2-Dichlorobenzene	<0.2
1,2-Dibromo-3-chloropropane	<0.4
1,2,4-Trichlorobenzene	<0.2
Hexachlorobutadiene	<0.2
Naphthalene	<0.2
1,2,3-Trichlorobenzene	<0.2
Dibromofluoromethane	109
1,2-Dichloroethane-d4	107
Toluene-d8	99
4-Bromofluorobenzene	106

VOLATILE ORGANICS LCS DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPW.O. # 0405-06882

COMPOUND	SPIKE ADDED mg/kg dry	AMOUNT DETECTED mg/kg dry	% RECOVERY
Dichlorodifluoromethane	5.0	3.2	64
Chloromethane	5.0	5.1	102
Vinyl Chloride	5.0	4.6	92
Bromomethane	5.0	1.6	32
Chloroethane	5.0	2.6	52
Trichlorofluoromethane	5.0	4.2	84
1,1-Dichloroethene	5.0	4.5	90
Methylene Chloride	5.0	5.4	108
Methyl tert-Butyl Ether (MTBE)	5.0	5.3	106
trans-1,2-Dichloroethene	5.0	4.7	94
1,1-Dichloroethane	5.0	5.6	112
cis-1,2-Dichloroethene	5.0	4.8	96
2,2-Dichloropropane	5.0	5.2	104
Bromochloromethane	5.0	4.6	92
Chloroform	5.0	5.6	112
1,1,1-Trichloroethane	5.0	5.2	104
1,1-Dichloropropene	5.0	5.6	112
Carbon Tetrachloride	5.0	4.9	98
Benzene	5.0	5.5	110
1,2-Dichloroethane	5.0	6.0	120
Trichloroethene	5.0	4.8	96
1,2-Dichloropropane	5.0	5.7	114
Dibromomethane	5.0	4.9	98
Bromodichloromethane	5.0	5.5	110
Toluene	5.0	5.1	102
1,1,2-Trichloroethane	5.0	5.1	102
Tetrachloroethene	5.0	4.0	80
1,3-Dichloropropane	5.0	5.6	112
Dibromochloromethane	5.0	4.7	94
1,2-Dibromoethane (EDB)	5.0	4.6	92
Chlorobenzene	5.0	4.8	96
Ethylbenzene	5.0	5.4	108
1,1,1,2-Tetrachloroethane	5.0	5.1	102
m&p-Xylene	10.0	10.2	102
o-Xylene	5.0	5.0	100
Styrene	5.0	5.1	102
Bromoform	5.0	4.3	86

METHOD 5035/8260

VOLATILE ORGANICS LCS DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPW.O. # 0405-06882

COMPOUND	SPIKE ADDED mg/kg dry	AMOUNT DETECTED mg/kg dry	% RECOVERY
Isopropylbenzene	5.0	5.3	106
1,1,2,2-Tetrachloroethane	5.0	5.4	108
Bromobenzene	5.0	9.7	194
n-Propylbenzene	5.0	5.9	118
1,2,3-Trichloropropane	5.0	6.0	120
2-Chlorotoluene	5.0	5.9	118
1,3,5-Trimethylbenzene	5.0	5.5	110
4-Chlorotoluene	5.0	5.8	116
tert-Butylbenzene	5.0	5.5	110
1,2,4-Trimethylbenzene	5.0	5.4	108
sec-Butylbenzene	5.0	5.4	108
p-Isopropyltoluene	5.0	5.4	108
1,3-Dichlorobenzene	5.0	5.1	102
1,4-Dichlorobenzene	5.0	5.0	100
n-Butylbenzene	5.0	5.8	116
1,2-Dichlorobenzene	5.0	5.1	102
1,2-Dibromo-3-chloropropane	5.0	5.8	116
1,2,4-Trichlorobenzene	5.0	4.5	90
Hexachlorobutadiene	5.0	4.6	92
Naphthalene	5.0	4.6	92
1,2,3-Trichlorobenzene	5.0	4.0	80
Dibromofluoromethane			107
1,2-Dichloroethane-d4			101
Toluene-d8			103
4-Bromofluorobenzene			98

VOLATILE ORGANICS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPDuplicate Sample # 0405-06882-002W.O. # 0405-06882

COMPOUND	DUPLICATE		MEAN	REPORTED	RPD
	SAMPLE RESULT	SAMPLE RESULT			
	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	
Dichlorodifluoromethane	<0.5	<0.5	<0.5	<0.5	0
Chloromethane	<0.5	<0.5	<0.5	<0.5	0
Vinyl Chloride	<0.2	<0.2	<0.2	<0.2	0
Bromomethane	<1.0	<1.0	<1.0	<1.0	0
Chloroethane	<0.5	<0.5	<0.5	<0.5	0
Trichlorofluoromethane	<0.2	<0.2	<0.2	<0.2	0
1,1-Dichloroethene	<0.2	<0.2	<0.2	<0.2	0
Methylene Chloride	<0.5	<0.5	<0.5	<0.5	0
Methyl tert-Butyl Ether (MTBE)	<0.4	<0.4	<0.4	<0.4	0
trans-1,2-Dichloroethene	<0.2	<0.2	<0.2	<0.2	0
1,1-Dichloroethane	<0.2	<0.2	<0.2	<0.2	0
cis-1,2-Dichloroethene	<0.2	<0.2	<0.2	<0.2	0
2,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	0
Bromochloromethane	<0.4	<0.4	<0.4	<0.4	0
Chloroform	<0.2	<0.2	<0.2	<0.2	0
1,1,1-Trichloroethane	<0.2	<0.2	<0.2	<0.2	0
1,1-Dichloropropene	<0.2	<0.2	<0.2	<0.2	0
Carbon Tetrachloride	<0.2	<0.2	<0.2	<0.2	0
Benzene	<0.2	<0.2	<0.2	<0.2	0
1,2-Dichloroethane	<0.2	<0.2	<0.2	<0.2	0
Trichloroethene	<0.2	<0.2	<0.2	<0.2	0
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	0
Dibromomethane	<0.2	<0.2	<0.2	<0.2	0
Bromodichloromethane	<0.2	<0.2	<0.2	<0.2	0
Toluene	<0.2	<0.2	<0.2	<0.2	0
1,1,2-Trichloroethane	<0.2	<0.2	<0.2	<0.2	0
Tetrachloroethene	<0.2	<0.2	<0.2	<0.2	0
1,3-Dichloropropane	<0.2	<0.2	<0.2	<0.2	0
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	0
1,2-Dibromomethane (EDB)	<0.2	<0.2	<0.2	<0.2	0
Chlorobenzene	<0.2	<0.2	<0.2	<0.2	0
Ethylbenzene	<0.2	<0.2	<0.2	<0.2	0
1,1,1,2-Tetrachloroethane	<0.2	<0.2	<0.2	<0.2	0
m&p-Xylene	<0.2	<0.2	<0.2	<0.2	0
o-Xylene	<0.2	<0.2	<0.2	<0.2	0
Styrene	<0.2	<0.2	<0.2	<0.2	0
Bromoform	<0.2	<0.2	<0.2	<0.2	0

VOLATILE ORGANICS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICALClient: NORFOLK RAM GROUPDuplicate Sample # 0405-06882-002W.O. # 0405-06882

COMPOUND	DUPLICATE		MEAN	REPORTED	
	SAMPLE RESULT	SAMPLE RESULT		VALUE	RPD
	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	
Isopropylbenzene	<0.2	<0.2	<0.2	<0.2	0
1,1,2,2-Tetrachloroethane	<0.2	<0.2	<0.2	<0.2	0
Bromobenzene	<0.2	<0.2	<0.2	<0.2	0
n-Propylbenzene	<0.2	<0.2	<0.2	<0.2	0
1,2,3-Trichloropropane	<0.2	<0.2	<0.2	<0.2	0
2-Chlorotoluene	<0.2	<0.2	<0.2	<0.2	0
1,3,5-Trimethylbenzene	<0.2	<0.2	<0.2	<0.2	0
4-Chlorotoluene	<0.2	<0.2	<0.2	<0.2	0
tert-Butylbenzene	<0.2	<0.2	<0.2	<0.2	0
1,2,4-Trimethylbenzene	<0.2	<0.2	<0.2	<0.2	0
sec-Butylbenzene	<0.2	<0.2	<0.2	<0.2	0
p-Isopropyltoluene	<0.2	<0.2	<0.2	<0.2	0
1,3-Dichlorobenzene	<0.2	<0.2	<0.2	<0.2	0
1,4-Dichlorobenzene	<0.2	<0.2	<0.2	<0.2	0
n-Butylbenzene	<0.2	<0.2	<0.2	<0.2	0
1,2-Dichlorobenzene	<0.2	<0.2	<0.2	<0.2	0
1,2-Dibromo-3-chloropropane	<0.4	<0.4	<0.4	<0.4	0
1,2,4-Trichlorobenzene	<0.2	<0.2	<0.2	<0.2	0
Hexachlorobutadiene	<0.2	<0.2	<0.2	<0.2	0
Naphthalene	<0.2	<0.2	<0.2	<0.2	0
1,2,3-Trichlorobenzene	<0.2	<0.2	<0.2	<0.2	0
Dibromofluoromethane	110	110			
1,2-Dichloroethane-d4	103	104			
Toluene-d8	99	101			
4-Bromofluorobenzene	85	85			