

**Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands**

**WPA Form 5 – Order of Conditions**

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

Provided by MassDEP:  
28- 2371

MassDEP File #

eDEP Transaction #

Gloucester

City/Town

**A. General Information**

1. From: Gloucester  
Conservation Commission

2. This issuance is for (check one):  
a.  Order of Conditions b.  Amended Order of Conditions

3. To: Applicant:

Suzanne Egan  
a. First Name b. Last Name  
City of Gloucester  
c. Organization  
9 Dale Avenue  
d. Mailing Address  
Gloucester MA 01930  
e. City/Town f. State g. Zip Code

4. Property Owner (if different from applicant):

a. First Name b. Last Name  
City of Gloucester and Massachusetts Electric Company d/b/a National Grid  
c. Organization  
19 Harbor Loop  
d. Mailing Address  
Gloucester MA 01930  
e. City/Town f. State g. Zip Code

5. Project Location:

19 and 19R Harbor Loop Gloucester  
a. Street Address b. City/Town  
9 14, 16  
c. Assessors Map/Plat Number d. Parcel/Lot Number

Latitude and Longitude, if known:                                                                    
d. Latitude e. Longitude

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## A. General Information (cont.)

6. Property recorded at the Registry of Deeds for (attach additional information if more than one parcel):

a. County \_\_\_\_\_ b. Certificate Number (if registered land) \_\_\_\_\_

c. Book \_\_\_\_\_ d. Page \_\_\_\_\_

7. Dates: October 21, 2014 November 5, 2014 November 19, 2014  
a. Date Notice of Intent Filed b. Date Public Hearing Closed c. Date of Issuance

8. Final Approved Plans and Other Documents (attach additional plan or document references as needed):

Proposed Site Plan

a. Plan Title \_\_\_\_\_

Anders Bjarngard \_\_\_\_\_ Same \_\_\_\_\_

b. Prepared By \_\_\_\_\_ c. Signed and Stamped by \_\_\_\_\_

October 2014 \_\_\_\_\_

d. Final Revision Date \_\_\_\_\_ e. Scale \_\_\_\_\_

f. Additional Plan or Document Title \_\_\_\_\_ g. Date \_\_\_\_\_

## B. Findings

1. 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 areas in which work is proposed is significant to the following interests of the Wetlands Protection Act (the Act). Check all that apply:

- a.  Public Water Supply    b.  Land Containing Shellfish    c.  Prevention of Pollution  
d.  Private Water Supply    e.  Fisheries    f.  Protection of Wildlife Habitat  
g.  Groundwater Supply    h.  Storm Damage Prevention    i.  Flood Control

2. This Commission hereby finds the project, as proposed, is: (check one of the following boxes)

**Approved subject to:**

This parcel does not include habitat of rare wildlife, nor does it contain certified vernal pools, according to the October 1, 2008 Map of Estimated Habitats of Rare Wildlife and Certified Vernal Pools, published by the Massachusetts Natural Heritage and Endangered Species Program.

This Order is issued under the Massachusetts Wetlands Protection Act, M.G.L. Chapter 131, Section 40 and the City of Gloucester Wetlands Ordinance.

The Commission finds that the proposed project will occur in a Coastal resource Area within a Designated Port Area, including Coastal Bank and Land Under the Ocean. :

The Commission finds that the buffer zone and resource area in this project are presumed to serve to protect the following interests of the Wetlands Protection Act:

- Protection of Public water Supply
- Protection of Private Water Supply
- Flood Control
- Storm damage Prevention
- Prevention of Pollution
- Protection of Land Containing Shellfish
- Protection of Fisheries
- Protection of wildlife habitat

The Commission finds that the following performance standards for the aforementioned resource areas have been met. The proposed structure will have no adverse effects on the stability of the coastal bank.

This permit allows the applicant to construct a floating dock as a replacement to an existing dock to be removed as part of remediation program for the Gloucester Inner harbor.

**Final Approved Plans (attach additional plan references as needed) :**

**Title: Proposed Site Plan**  
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**Dated (and Revision dates):**

October 2014 \_\_\_\_\_

**Signed and Stamped:**

Anders Bjarngard\_\_

**B. Findings (cont.)**

- a.  the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all 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.

See attached 11/13/2014 letter specifying factors relevant to dock design/implementation

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**Denied because:**

- b.  the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**
  
- c.  the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**

**Resource Areas Involved:**

3.  Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310 CMR 10.02(1)(a) \_\_\_\_\_ a. linear feet

**Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)**

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. <input checked="" type="checkbox"/> Bank	150 a. linear feet	150 b. linear feet	_____ c. linear feet	_____ d. linear feet
5. <input type="checkbox"/> Bordering Vegetated Wetland	_____ a. square feet	_____ b. square feet	_____ c. square feet	_____ d. square feet
6. <input checked="" type="checkbox"/> Land Under Waterbodies and Waterways	0 a. square feet _____ e. c/y dredged	_____ b. square feet _____ f. c/y dredged	_____ c. square feet	_____ d. square feet
7. <input type="checkbox"/> Bordering Land Subject to Flooding	_____ a. square feet	_____ b. square feet	_____ c. square feet	_____ d. square feet
Cubic Feet Flood Storage	_____ e. cubic feet	_____ f. cubic feet	_____ g. cubic feet	_____ h. cubic feet
8. <input type="checkbox"/> Isolated Land Subject to Flooding	_____ a. square feet	_____ b. square feet		
Cubic Feet Flood Storage	_____ c. cubic feet	_____ d. cubic feet	_____ e. cubic feet	_____ f. cubic feet
9. <input type="checkbox"/> Riverfront Area	_____ a. total sq. feet	_____ b. total sq. feet		
Sq ft within 100 ft	_____ c. square feet	_____ d. square feet	_____ e. square feet	_____ f. square feet
Sq ft between 100-200 ft	_____ g. square feet	_____ h. square feet	_____ i. square feet	_____ j. square feet

**B. Findings (cont.)**

**Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)**

	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. <input checked="" type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below			
11. <input checked="" type="checkbox"/> Land Under the Ocean	0 impact a. square feet _____ c. c/y dredged	_____ b. square feet _____ d. c/y dredged		
12. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
13. <input type="checkbox"/> Coastal Beaches	_____ a. square feet	_____ b. square feet	_____ c. nourishment	_____ d. nourishment
14. <input type="checkbox"/> Coastal Dunes	_____ a. square feet	_____ b. square feet	_____ c. nourishment	_____ d. nourishment

- |  |   |       |                |       |                |                |
|--|---|-------|----------------|-------|----------------|----------------|
| 15. <input type="checkbox"/> Coastal Banks                         | Approx..<br>150   | _____ | same           | _____ |                |                |
|  |   |       | b. linear feet |       |                |                |
| 16. <input type="checkbox"/> Rocky Intertidal Shores               | _____   | _____ | a. square feet | _____ | _____          |                |
|  |   |       | b. square feet |       |                |                |
| 17. <input type="checkbox"/> Salt Marshes                          | _____   | _____ | a. square feet | _____ | _____          | _____          |
|  |   |       | b. square feet |       | c. square feet | d. square feet |
| 18. <input type="checkbox"/> Land Under Salt Ponds                 | _____   | _____ | a. square feet | _____ | _____          | _____          |
|  |   |       | b. square feet |       |                |                |
|  | _____   | _____ | c. c/y dredged | _____ | _____          | _____          |
|  |   |       | d. c/y dredged |       |                |                |
| 19. <input type="checkbox"/> Land Containing Shellfish             | _____   | _____ | a. square feet | _____ | _____          | _____          |
|  |   |       | b. square feet |       | c. square feet | d. square feet |
| 20. <input type="checkbox"/> Fish Runs                             | Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above |       |                |       |                |                |
|  | _____   | _____ | a. c/y dredged | _____ | _____          | _____          |
|  |   |       | b. c/y dredged |       |                |                |
| 21. <input type="checkbox"/> Land Subject to Coastal Storm Flowage | _____   | _____ | a. square feet | _____ | _____          | _____          |
|  |   |       | b. square feet |       |                |                |

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## B. Findings (cont.)

\* #22. If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been

- |   |                                   |   |
|---|-----------------------------------|---|
| 22. <input type="checkbox"/> Restoration/Enhancement *: | _____                             | _____                                     |
|   | a. square feet of BVW             | b. square feet of salt marsh              |
| 23. <input type="checkbox"/> Stream Crossing(s):        | _____                             | _____                                     |
|   | a. number of new stream crossings | b. number of replacement stream crossings |

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## **C. General Conditions Under Massachusetts Wetlands Protection Act**

**The following conditions are only applicable to Approved projects.**

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. The 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, bylaws, or regulations.
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. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on \_\_\_\_\_ unless extended in writing by the Department.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain 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.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.

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## **C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)**

9. No work shall be undertaken until the Order has become final and then 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 the 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 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 the commencement of work.
10. 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, "MassDEP"]

- 11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
- 12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
- 13. The work shall conform to the plans and special conditions referenced in this order.
- 14. Any change to the plans identified in Condition #13 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.
- 15. The Agent or members of the Conservation Commission and the 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.
- 16. 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.
- 17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.

**C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)**

- 18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

**NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS**

- 19. **The work associated with this Order (the "Project") is (1)  is not (2)  subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:**

- a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System



Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.

- b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:
- i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;
  - ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;
  - iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;
  - iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;
  - v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.

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### **C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)**

- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through

18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.

f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.

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### **C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)**

- g) The responsible party shall:
1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
  2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
  3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

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## D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable?  Yes  No
2. Under the Gloucester Wetlands Ordinance the Commission finds that:

- a.  that the proposed work cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw, specifically:

\_\_\_\_\_ hereby finds (check one that applies):  
Conservation Commission

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these

2. Citation

- b.  that the following additional conditions are necessary to comply with a municipal ordinance or bylaw:

Gloucester General Wetlands Ordinance

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following

2. Citation

The special conditions relating to municipal ordinance or bylaw are as follows (if you need more space for additional conditions, attach a text document):

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**Special Conditions: None**

## E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

Please indicate the number of members who will sign this form.

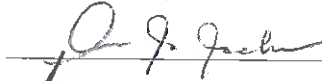
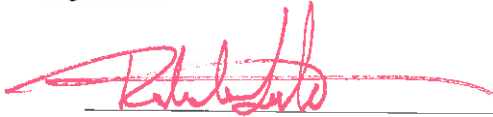
This Order must be signed by a majority of the Conservation Commission.

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

1. Date of Issuance

2. Number of Signers

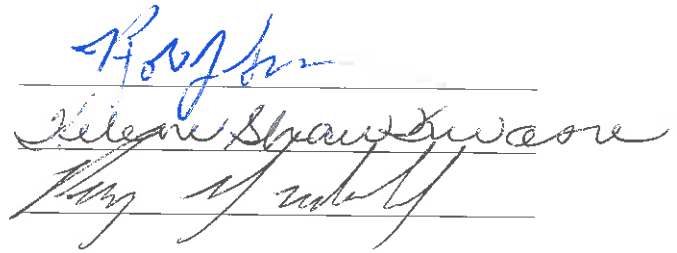
Signatures:



by hand delivery on

December 8 2011

Date 30 Harbormark Caulk Kit



by certified mail, return receipt requested, on

Date

## F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the

## G. Recording Information

Prior to commencement of work, 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 on this page shall be submitted to the Conservation Commission listed below.

Gloucester  
Conservation Commission  
Detach on dotted line, have stamped by the Registry of Deeds and submit to the  
Conservation Commission.

-----  
To:

Gloucester  
Conservation Commission

Please be advised that the Order of Conditions for the Project at:

Project Location

Has been recorded at the Registry of Deeds of:

Essex  
County

MassDEP File Number

for:

and has been noted in the chain of title of the  
affected property in:

Book

Page

Property Owner

In accordance with the Order of Conditions issued on:

Date

Page

If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:

Document Number

Signature of Applicant

Appendix A

Document	Date received
All Agent notes	
All recordings of minutes	
NOI application, site plan and project description;	

November 13, 2014  
File No. 18.0171350.00



Mr. Ken Whittaker, Agent  
Gloucester Conservation Commission  
City Hall Annex  
3 Pond Road  
Gloucester, MA 01930

RE: DEP File No. 28-2371  
Gloucester Harbormaster Berthing Improvement Project  
19 Harbor Loop  
Gloucester, Massachusetts

372 Merrimac Street  
Newburyport, MA  
01950  
781-278-4800  
FAX 978-465-2640

Dear Mr. Whittaker:

Per the request of the Gloucester Conservation Commission, GZA GeoEnvironmental, Inc., (GZA), on behalf of the City of Gloucester, Harbormaster's Office, is pleased to submit additional information regarding the concrete floats as requested at the public hearing on November 5, 2014. The following information is provided:

1. Concrete Floats/Maintenance Plan:

SF Marine is a manufacturer of concrete floats who we have been working with in the development of the proposed float layout. They have an "owner's manual" document, however they are reluctant to share this information with us unless an order has been placed. In conversation with the SF Marine representative, he verbally provided the following information:

- The concrete floats generally don't require maintenance. Washing or cleaning of the floats can be done with fresh water by use of a 'garden hose-type' connection. Power-washing is generally not needed unless the floats have not been maintained properly and cleaned on a regular basis.
- Waterproofing is generally not required. The float manufacturer representative stated that some owners have applied water-proof coatings to the surface in the past to try and maximize the longevity of the concrete surface, but this is not required.
- Generally the life expectancy is in the order of 30+ years.
- Warranty information varies by manufacturer. Generally, the warranty is for (1) one year on materials and workmanship defects.
- Manufacturer's information on the floats is attached.

In addition to concrete float information provided, I have attached a copy of the review letter from the Gloucester Shellfish Constable for this project, as requested, for your files.

I was advised at the night of the November 5, 2014 public hearing that submission of this information would be required prior to the next public hearing scheduled on November 19, 2014. I was also advised attendance at that hearing is not required.

Should you have any questions or comments regarding this submittal, or if you require any additional information, please contact our office at (781) 278-4806.



Sincerely,  
GZA GEOENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "David Smith", is written over a faint rectangular stamp.

David Smith  
Project Manager

Cc Jim Caulkett/Gloucester Harbormaster

Attachments



# CITY OF GLOUCESTER

GLOUCESTER • MASSACHUSETTS 01930

SHELLFISH

3 POND ROAD

24 HOUR ANSWERING MACHINE: 978-281-9741

PHONE: 978-281-9781

EMAIL: [dsargent@gloucester-ma.gov](mailto:dsargent@gloucester-ma.gov)

To: Ken Whittaker – Conservation Agent

From: Dave Sargent - Shellfish Constable

Date: November 13, 2014

**RE: Notice of Intent (N.O.I.) – floating dock system located at 19 & 19R Harbor Loop, Gloucester, MA**

I have read the above referenced NOI, conducted a site visit, am familiar with the area.

I have concluded that this project, as designed, will not have a permanent adverse impact on either the commercial or recreational shellfish resources of the City.

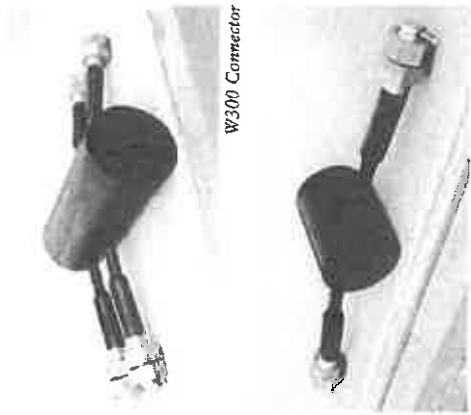
Thank you for your time and consideration in this matter.

Sincerely,

Dave Sargent  
Gloucester Shellfish Constable

Cc: Harbormaster  
Shellfish Advisory Commission  
File

# Product Information



W300 Connector

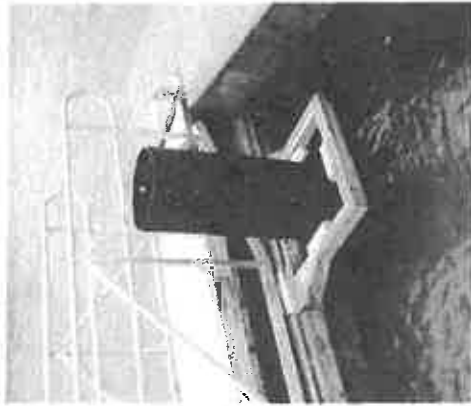
W200 Connector

Our pontoons have a core of Styrofoam, EPS, which is partly surrounded by high-quality, reinforced concrete. All concrete-related work is carried out according to the Swedish Concrete Standard BBK 94; the overall production is quality-assured in accordance with ISO 9001.

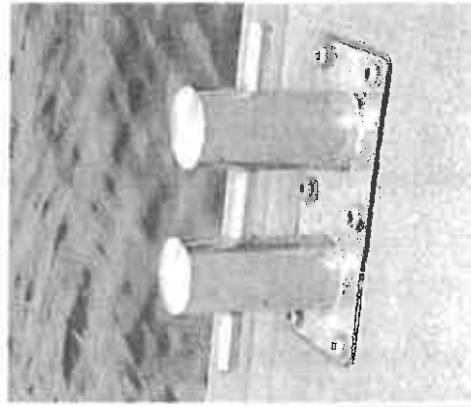
All structures are designed for a life expectancy of 30–50 years.

The pontoons are unsinkable and reinforced to tolerate ice-stress. Energy-absorbing fenders made of pressure-treated wood protect both boat and pontoon against collisions. Materials are especially selected to endure salt water and excessive temperature variations, including bolts and joints made of acid-proof stainless steel and hot-dipped galvanised steel.

Many years of development, both practical



Pile Guide HD



3 tons bollard



Concrete fenders

and theoretical, are the basis for our structures which, among others, are approved by Germanischer Lloyd. Our Breakwater systems have been tested in great detail by the INHA Wave Laboratory in Barcelona, Spain.

Our Design and Development Department not only designs our own products, but in addition can provide solutions to matters concerning mooring and installation. Often, the installations are designed to withstand the “storm of the century”.

We have a flexible mould system which makes it easy for us to provide special applications at low cost.

The pontoons are equipped with built-in ducts to carry cables and piping for the connection of electricity, water and sewage disposal.

Maximum flexibility at the time of production allows for further optional extras to be incorporated.

Our patented pontoon connectors provide controlled flexibility of movement in all directions. Mooring is effected by means of chains and anchors or by attaching to piles, depending on individual requirements.

Manufacture takes place at our plant at Wallhamn where products can be loaded directly on ocean-going vessels. What we are capable of is probably best illustrated by the following example. It took us only nine months to supply and ship direct a complete Marina of approximately 550 berths to Patriot's Point Marina in Charleston, USA.

## CONCRETE BREAKWATER TYPE SF 300, 400, 500

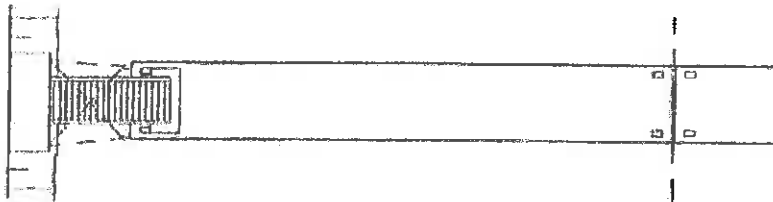
The geometry of this pontoons, in combination with our patented coupling and an advanced mooring system, makes our floating breakwater an excellent wave attenuator.

This pontoons have been developed gradually over a number of years and today there are numerous reference-installations in use both in Sweden and abroad

The breakwaters from **SF MARINA SYSTEM** are all-concrete pontoons with all the advantages of high stability and buoyancy. The all concrete and styrofoam construction of the pontoon produces a very high degree of buoyancy thus making it virtually unsinkable.

As a result of the use of high quality materials, coupled with a thorough manufacturing process, the pontoon enjoys a long life-span. Each standard pontoon is designed to accept electrical and water supply services.

Normally, the pontoons would be moored using chains and blocks. This pontoons are first and foremost as a floating breakwater. However, they can be used universally where the potential of a pontoon having high stability and freeboard can be utilized.



### DATA TYPE SF 300

### DATA TYPE SF 400

### DATA TYPE SF 500

The pontoon is manufactured in accordance with the Swedish Concrete Standards BBK 94

Length: 20.0 m.  
Width: Incl. fender 3.25 m.  
Width: Excl. fender 3.0 m.  
Height: 1.8 m.  
Weight: 38.0 ton.  
Freeboard: Approx. 0.6 m.  
Buoyancy: Approx. 35 ton.  
Connectors: 2 units type W 300 per joint.  
Breaking load: W 300: 2 x 60 ton per joint.

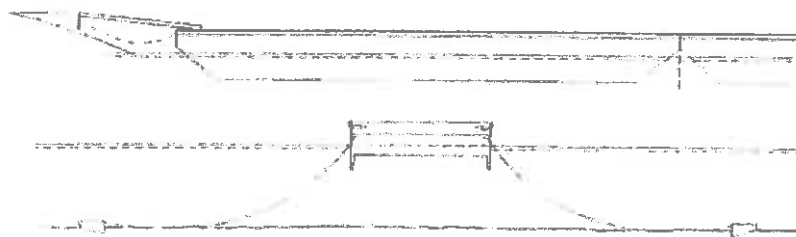
Length: 20.0 m.  
Width: Incl. fender 4.25 m.  
Width: Excl. fender 4.0 m.  
Height: 1.8 m.  
Weight: 53 ton.  
Freeboard: Approx. 0.6 m.  
Buoyancy: Approx. 45 ton.  
Connectors: 2 units type W 400 per joint.  
Breaking load: W 400: 2 x 90 ton per joint.

Length: 20.0 m.  
Width: Incl. fender 5.25 m.  
Width: Excl. fender 5.0 m.  
Height: 1.8 m.  
Weight: 62 ton.  
Freeboard: Approx. 0.6 m.  
Buoyancy: Approx. 60 ton.  
Connectors: 2 units W 500 per joint.  
Breaking load: W 500: 2 x 120 ton per joint.

All-concrete pontoons: Concrete: K40. Air 6%.  $W_{cr} \leq 0.4$ . Reinforcement: Nps 500, Ks 500, Ks 600. Styrofoam: min. 65kPa.

Cast-in materials: Stainless or hot-dipped galvanised steel. Wood fender: Pressure-treated pine 95 x 145 mm.

Other dimensions can be offer upon request. Rights reserved for alterations.



**SF MARINA SYSTEM AB**  
Yacht Harbour Construction



## ALL-CONCRETE PONTOON TYPE SF 1200

An all-concrete pontoon from **SF MARINA** provides the highest possible standard and comfort. The heavy weight makes it extremely stable.

As a result of the use of high quality materials, coupled with a thorough manufacturing process, the pontoon enjoys a long life-span. The pontoon is built to cope with our Scandinavian climate and to withstand the autumn hurricanes and harsh winters.

Type SF 1200 can be used universally where the potential of heavy duty pontoon with high freeboard, approx. 0.65 m, can be utilized, such as commercial docks, fishing harbours, ferry-landings etc.

Also the pontoon has good wave-dampening characteristics.

The all concrete and styrofoam construction of the pontoon produces a very high degree of buoyancy thus making it virtually unsinkable.

It is practically maintenance-free and has little or no impact upon Nature and the Environment.

Each standard pontoon is designed to accept electrical and water supply services.

Normally, the pontoons would be moored using chains and blocks. As an alternative, they could be connected to piles.

With our patented coupling the pontoons can be connected longitudinally and at angles without the necessity of intermediate gangways.



### DATA TYPE SF 1230 DATA TYPE SF 1240 DATA TYPE SF 1250

The pontoon is manufactured in accordance with the Swedish Concrete Standards BBK 94

Length: 9.95, 14.96, 20.00 m

Width: Incl. fender 3.25 m

Width: Excl. fender 3.0 m

Height: 1.2 m

Weight: 18.0, 26.0, 34.0 ton

Freeboard: Approx. 0.65 m

Buoyancy: Approx. 17.0, 25.0, 33.0 ton

Connectors: 2 units type W 300 per joint

Breaking load: W 300: 2 x 60 ton per joint

Length: 9.95, 14.96, 20.00 m

Width: Incl. fender 4.25 m

Width: Excl. fender 4.0 m

Height: 1.2 m

Weight: 23.0, 34.0, 45.0 ton

Freeboard: Approx. 0.65 m

Buoyancy: Approx. 22.0, 33.0, 44.0 ton

Connectors: 2 units type W 400 per joint

Breaking load: W 400: 2 x 90 ton per joint

Length: 9.95, 14.96, 20.00 m

Width: Incl. fender 5.25 m

Width: Excl. fender 5.0 m

Height: 1.2 m

Weight: 29.0, 43.0, 57.0 ton

Freeboard: Approx. 0.65 m

Buoyancy: Approx. 28.0, 42.0, 55.0 ton

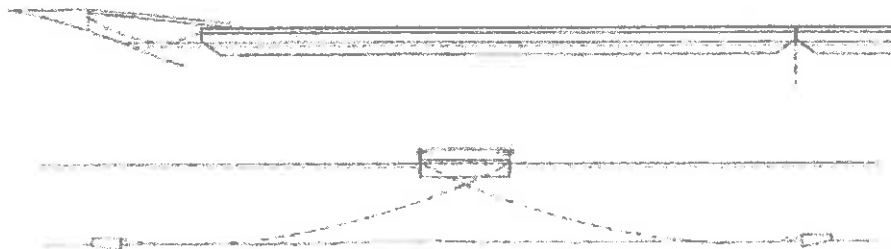
Connectors: 2 units W 400 per joint

Breaking load: W 400: 2 x 90 ton per joint

All-concrete pontoons: Concrete: K40. Air 6%.  $W_{cl} \leq 0.4$ . Reinforcement: Nps 500, Ks 500, Ks 600. Styrofoam: min. 65kPa.

Cast-in materials: Stainless or hot-dipped galvanised steel. Wood fender: Pressure-treated pine 95 x 145 mm.

Other dimensions can be offered upon request. Rights reserved for alterations.



### SF MARINA SYSTEM AB

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## ALL-CONCRETE PONTOON TYPE SF 1000

An all-concrete pontoon from **SF MARINA** provides the highest possible standard and comfort. The heavy weight of the pontoon makes it extremely stable.

As a result of the use of high quality materials, coupled with a thorough manufacturing process, the pontoon enjoys a long life-span.

The pontoon is built to cope with our Scandinavian climate and to withstand the autumn hurricanes and harsh winters.

Type SF 1000 can be used universally in sheltered and semi-sheltered locations where there is a requirement for high quality and stability.

Also the pontoon has good wave-dampening characteristics.

The all concrete and styrofoam construction of the pontoon produces a very high degree of buoyancy thus making it virtually unsinkable.

It is practically maintenance-free and has little or no impact upon Nature and the Environment.

Each standard pontoon is designed to accept electrical and water supply services.

Normally, the pontoons would be moored using chains and blocks. As an alternative, they could be connected to piles.

With our patented coupling the pontoons can be connected longitudinally and at angles without the necessity of intermediate gangways.



### DATA TYPE SF 1024

### DATA TYPE SF 1030

### DATA TYPE SF 1040

The pontoon is manufactured in accordance with the Swedish Concrete Standards BBK 94

Length: 9.95, 11.96, 14.95, 19.96 m

Width: Incl. fender 2.65 m

Width: Excl. fender 2.4 m

Height: 1.0 m

Weight: 10.5, 13.0, 16.0, 21.0 ton

Freeboard: Approx. 0.5 m

Buoyancy: Approx. 12.0, 16.0, 18.0, 24.0 ton

Connectors: 2 units type W 200 per joint

Breaking load: W 200: 2 x 30 ton per joint

Length: 9.95, 11.96, 14.95, 19.96 m

Width: Incl. fender 3.25 m

Width: Excl. fender 3.0 m

Height: 1.0 m

Weight: 12.5, 15.0, 18.0, 26.0 ton

Freeboard: Approx. 0.5 m

Buoyancy: Approx. 15.0, 18.0, 22.0, 30.0 ton

Connectors: 2 units type W 250 per joint

Breaking load: W 200: 2 x 30 ton per joint

W 250: 2 x 60 ton per joint

Length: 9.95, 11.96, 14.95, 19.96 m

Width: Incl. fender 4.25 m

Width: Excl. fender 4.0 m

Height: 1.0 m

Weight: 15.0, 17.0, 20.0, 30.0 ton

Freeboard: Approx. 0.5 m

Buoyancy: Approx. 20.0, 25.0, 30.0, 40.0 ton

Connectors: 2 units W 250 per joint

Breaking load: W 250: 2 x 60 ton per joint

All-concrete pontoons: Concrete: K40. Air 6%.  $W_{cr} \leq 0.4$ . Reinforcement: Nps 500, Ks 500, Ks 600. Styrofoam: min. 65kPa.

Cast-in materials: Stainless or hot-dipped galvanised steel. Wood fender: Pressure-treated pine 95 x 145 mm.

Other dimensions can be offered upon request. Rights reserved for alterations.

