

**FISH DETERRENT SYSTEM  
FIELD INSPECTION and SURVEY REPORT:  
WEEK OF 2/20/2013-2/26/2013**

**In Accordance With The:  
FISH DETERRENT PLAN**

**New Bedford Marine Commerce Terminal,  
New Bedford South Terminal, New Bedford, MA**



*Prepared on behalf of:*



Massachusetts Clean Energy Center  
as Part of Regulatory Compliance

*Prepared by:*



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**OPERATIONS REPORT:  
REGULATORY COMPLIANCE ACTIVITIES  
OR-RC-FDP-FISR01-022613**

Version: 01

Date: 2/26/13

# Fish Deterrent System

## Field Inspection and Survey Report

Week: 02-20-13 through 02-26-13  
New Bedford Marine Commerce Terminal (NBMCT)

This Field Inspection and Survey Report was prepared as part of the implementation of the “Fish Deterrent Plan”, which is part of “Water Quality Performance Standards” for the NBMCT (South Terminal Project) referenced in the USEPA “EPA Final Determination for the South Terminal Project” (November, 2012).

### **1. Introduction:**

The Water Quality Standards included in the USEPA Final Determination for the South Terminal Project includes a “Fish Deterrent Plan” (FDP) that describes fish deterrent activities and fish barrier systems that the project proponent (the Commonwealth of Massachusetts) agreed to install and operate (in certain portions of the Harbor) in order to reduce the potential impact to fish (i.e. a “Fish Deterrent System,” or FDS). The FDP indicates that fish deterrent activities shall be conducted during the period from January 15 through June 15 of any year if there is to be construction related to the New Bedford Marine Commerce Terminal (NBMCT) during that period in those areas. The purpose of the FDS is “to reduce the impact to fish by excluding them from a proposed area”; in this case the work areas associated with the construction of CAD Cell #3 and the area around the proposed South Terminal bulkhead extension and berthing channel at the NBMCT. The deployment and operation of the Fish Deterrent System (FDS) is to take place between January 15 and June 15 of any year within areas shallower than –5 meters MLLW if any work that could disrupt spawning or other activities associated with certain fish species is undertaken. The FDP also calls for regular weekly inspections of the system and an assessment as to the presence or absence of fish within the FDS work areas, coupled with actions that should be taken to remove fish from the FDS work areas if they are encountered (using a “Fish Startle System”).

This Field Inspection Report represents the sixth Report associated with the installation, inspections, and maintenance of the “Fish Deterrent System” that has been deployed in New Bedford Harbor to meet the 2013 Water Quality Performance Standards in the EPA Final Determination for this Project. This sixth Report for the Fish Deterrent Plan activities includes:

- Field Inspection Form for the Fish Monitoring Survey undertaken during the week of February 20, through February 26, 2013; including Fish Startle Activities undertaken; and
- Field Inspection Form for the weekly inspection of the Fish Deterrent System for the week of February 20, through February 26, 2013; and
- Field Maintenance Form for activities that have been undertaken to maintain and improve the FDS system after initial installation.

In order to eliminate duplication of efforts between the maintenance efforts and the fish monitoring surveys, the Field Inspection Form was divided this week into two portions, one for documenting the Monitoring and Startling efforts, and the other to document the inspection of the physical barriers which constitute the Fish Deterrent System. In future reports the forms will be included as; the “Monitoring Survey Form (MSF)”, the “Field Inspection Form (FIF)”, and the “Field Maintenance Form (FMF)”.

Form : FDS-FIF-01  
Inspection Completion  
Date: 2/22

**NBMCT**  
**SOUTH TERMINAL**  
**CONSTRUCTION**  
**FIELD INSPECTION FORM**  
**(FIF)**



Doc #: RCF-FDS-01

**Location of Inspection:**

- CAD Cell
- S. Terminal Area
- Other

**Work Performed:**

- Standard Weekly Inspection
- Special Inspection:

**Personnel:**

Jonathan Potts  
David Cangarl  
Ryan Dahlberg  
Scott Magilton  
Ward McIntyre

**Description of Inspection Work Performed Today (List any activities associated with work inspection):**

Transects surveys were performed via surface supplied-air diving with diver to top-side video and communications. The transect surveys utilized a six hundred foot long umbilical and the diver equipped with a wrist mounted compass. As a result, the underwater transect surveyor had the ability to take compass headings and travel a total transect length of twelve hundred feet. All dive operations utilized vulcanized rubber dry suits with Aga full face masks or KM57 dive helmets to deter any possible exposure to sediment and water column contaminants.

**Tasks Completed:**

**CAD Cell #3 Area**

Monitoring Survey: Yes / No

Sonar: Yes / No Video: Yes / No

**South Terminal Area**

Monitoring Survey: Yes / No

Sonar: Yes / No Video: Yes / No

**Results of Inspection (CAD Cell Area):**

**1. Flat Fish Observations:**

- None Encountered
- Flat Fish Encountered (please note # below)  
\_\_\_0\_\_\_ Number of Individuals  
\_\_\_0\_\_\_ Number of Schools (3 or more fish)

**2. Fin Fish Observations:**

- None Encountered
- Fin Fish Encountered (please note # below)  
\_\_\_0\_\_\_ Number of Individuals  
\_\_\_1\_\_\_ Number of Schools (3 or more fish)

**Results of Inspection (South Terminal Area):**

**3. Flat Fish Observations:**

- None Encountered
- Flat Fish Encountered (please note # below)  
\_\_\_0\_\_\_ Number of Individuals  
\_\_\_0\_\_\_ Number of Schools (3 or more fish)

**4. Fin Fish Observations:**

- None Encountered
- Fin Fish Encountered (please note # below)  
\_\_\_0\_\_\_ Number of Individuals  
\_\_\_0\_\_\_ Number of Schools (3 or more fish)

**Fish Removal Activities (CAD Cell Area):**

No Action Required = No Fish Detected (during inspection)

Fish Startle System:

Light Bar:

Sound System:

Tactile System:

Other: (Description:\_\_\_\_\_)

(Description of Fish Startle Activities Undertaken):\_\_\_\_\_

\_\_\_\_\_

Other:

(Description):\_\_\_\_\_

\_\_\_\_\_

**Fish Removal Activities (S. Terminal Area):**

No Action Required = No Fish Detected (during inspection)

Fish Startle System

Light Bar:

Sound System:

Tactile System:

Other: (Description:\_\_\_\_\_)

(Description of Fish Startle Activities Undertaken):\_\_\_\_\_

\_\_\_\_\_

Other:

(Description):\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Recommendations

Recs. to Improve Survey Methodology (CAD Cell / South Terminal [circle one/both] ):  
(Description)

This week's survey operations utilized an underwater propulsion vehicle enabling the SCUBA diver to quickly navigate the anchor and buoy lines associated with the various curtain and weir systems and enhancing survey operations. In addition, wireless underwater communications will be added to future survey operations to enhance the survey team's notation ability.

Recs. to Improve Service System (CAD Cell / South Terminal [circle one/both] )  
(Description)

Recs. to Improve General System Performance (CAD Cell / South Terminal [circle one/both] ) (Description)

Other (Description)

Form : FDS-FIF-03

Date: 2/26/13

# NBMCT SOUTH TERMINAL CONSTRUCTION FIELD INSPECTION FORM (FIF)



Doc #: RCF-FDS-03

**Location of Inspection:**

- CAD Cell
- S. Terminal Area
- Other

**Work Performed:**

- Weekly Inspection Silt Barrier
- Weekly Inspection Fish Weir
- Special Inspection:

**Personnel:**

Josh Ray  
Chris Stillman  
Jeff Frishman

**Description of Inspection Work Performed Today (List any activities associated with work inspection):**

Completed field inspection of South Terminal and CAD Cell #3 exclusion area's fish weir and silt barrier using a pole mounted underwater camera with a remote display on board the survey vessel. The survey vessel navigated along length of fish deterrent system looking for damages to anchor lines, silt barrier brackets, and silt barrier sewn grommets. The vessel navigated along the fish weir as inspectors looked for anchor tears, tightness (which affects weir height), and bottom chain/weir separation.

**Tasks Completed:**

**CAD Cell #3 Area**

- Weir Inspection
- Silt Barrier Inspection

**South Terminal Area**

- Weir Inspection
- Silt Barrier Inspection

**Silt Barrier and Weir Inspection:**

**CAD Cell #3 Area**

Section#	G	S	L	C	A	W	D	Section#	G	S	L	C	A	W	D
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**G= Good S=Split Seam L=Lifted From Bottom C=Cut / Ripped A=Anchor Lost**  
**W=Weir Damaged D=Anchor Dragged**

**South Terminal Area**

Section#	G	S	L	C	A	W	D	Section#	G	S	L	C	A	W	D
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**G= Good S=Split Seam L=Lifted From Bottom C=Cut / Ripped A=Anchor Lost  
W=Weir Damaged D=Anchor Dragged**

**Recommendations**

Recs. to Improve Survey Methodology (CAD Cell / South Terminal [circle one/both] ): (Description)

Future surveys may include sidescan sonar may detect damages to silt barrier and may allow for faster accurate conditions inspections.

Recs. to Improve Service / System (CAD Cell / South Terminal [circle one/both] ): (Description)

Future replacement sections of Silt Barrier are to include a 2' strip of geotextile installed below the upper floatation with greater permeability to reduce the effect of wind lift and thereby reduce maintenance requirements.

Recs. to Improve General System Performance (CAD Cell / South Terminal [circle one/both] ): (Description)

None

Other (Description) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Form : FDS-FMF-01

Date: 2/26/2013

**NBMCT  
SOUTH TERMINAL  
CONSTRUCTION  
FIELD MAINTENANCE FORM  
(FMF)**



Doc #: RCF-FDS-02

**Location of Maintenance:**

- CAD Cell
- S. Terminal Area
- Other

**Work Performed:**

- Silt Barrier Maintenance
- Fish Weir Maintenance:
- Bubble Curtain Maintenance:

**Personnel:**

Josh Ray  
Chris Stillman  
Jeff Frishman

**Description of Maintenance Work Performed During this Maintenance Period (List any activities associated with maintenance):**

A severe Winter storm impacted New Bedford over the 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> of February 2013 with recorded (2 minute) wind gusts of over 60 miles per hour. The effects of the storm have increased the number of items requiring attention during this maintenance period.

Realignment of Silt Curtain and replacement of damaged sections at South Terminal and CAD Cell #3 fish exclusion areas. Replacement of anchor lines, anchors, and resetting of anchors at South Terminal and CAD Cell #3 fish exclusion areas. Realignment of CAD Cell #3 fish weir.

**Tasks Completed:**

**CAD Cell #3 Area**

- Weir Realignment / Maintenance
- Silt Barrier Realignment/ Maintenance
- Anchor Alignment / Maintenance

**South Terminal Area**

- Weir Realignment / Maintenance
- Silt Barrier Realignment/ Maintenance
- Anchor Alignment / Maintenance
- Bubble Curtain Maintenance

**Summary of Maintenance Performed (Cad Cell #3 Area):**

\_\_ Realigned, reattached and reset anchors at the CAD Cell #3 fish exclusion area to minimize interference with fish weir. Reconnected broken section joints, added additional anchors. Repositioned misaligned fish weir sections.

**Summary of Maintenance Performed (South Terminal Area):**

\_\_ Repositioned and reset, reconnected, and retrieved Silt Curtain anchors to minimize interference with fish weir. Repaired split seams and cut section of silt barrier. Replaced damaged sections of silt barrier.

**Silt Barrier and Weir Maintenance:**

**CAD Cell #3 Area**

Section#	S	B	R	A	W	P	Section#	S	B	R	A	W	P
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**S=Seam Laced B=Ballast Added/Corrected R=Repaired/Replaced A=Anchor Added W=Weir Repaired / Realigned P=Dragged Anchor Placed in Correct Location**

**South Terminal Area**

Section#	S	B	R	A	W	P	Section#	S	B	R	A	W	P
1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
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**S=Seam Laced B=Ballast Added/Corrected R=Repaired/Replaced A=Anchor Added W=Weir Repaired / Realigned P=Dragged Anchor Placed in Correct Location**