

**FISH DETERRENT SYSTEM
FIELD INSPECTION and SURVEY REPORT:
WEEK OF 2/27/2013-3/5/2013**

**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-FISR01-030513**

Version: 01

Date: 3/5/13

Fish Deterrent System

Field Inspection and Survey Report

Week: 02-27-13 through 03-5-13
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 seventh 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 seventh Report for the Fish Deterrent Plan activities includes:

- Field Inspection Form for the Fish Monitoring Survey undertaken during the week of February 27, through March 5, 2013; including Fish Startle Activities undertaken; and
- Field Inspection Form for the weekly inspection of the Fish Deterrent System for the week of February 27, through March 5, 2013; and
- Field Maintenance Form for activities that have been undertaken to maintain and improve the FDS system during the week of February 27, through March 5, 2013.

Form : **FDS-FIF-02**
Inspection Completion
Date: 3/01

NBMCT
SOUTH TERMINAL
CONSTRUCTION
MONITORING SURVEY
FORM (MSF)



Doc #: RCF-FDS-04

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):

Transect surveys were performed via a towed video sled system, outfitted with laser pointers and variable lighting, in addition to, SCUBA divers outfitted with an underwater propulsion system. The towed system was primarily utilized at the CAD Cell location. The CAD Cell location has limited amounts of debris and a depth which stays relatively constant. The South Terminal location, has variable depths and contains a significant amount of marine debris, as a result, SCUBA operations are preferred. All dive operations utilized a wrist mounted compass to enhance diver navigation and vulcanized rubber dry suits with AGA full face masks to deter any possible exposure to sediment and water column contaminants. The towed video system is manufactured by Shark Marine and consists of an SV-HDV-LAPTOP service console, SV-16HR Color Underwater Camera, 250W/120V Underwater Light, and a laser scaling unit.

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
__0__ 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: 3/5/13

**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 the 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. In two areas along the South Terminal bubble curtains excessive bubbles were observed. Minor misalignment of the silt curtain due to dragged anchors was observed at South Terminal and CAD #3 fish exclusion areas. Some sewn grommets connecting the silt curtain sections were parted at the CAD #3 and South Terminal fish exclusion areas. Misalignment of fish weir observed at CAD #3 and South Terminal fish exclusion areas.

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 type="checkbox"/>	14	<input checked="" 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 Misaligned / 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 Misaligned / 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: 3/5/2013

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):

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

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 adjacent anchors. Reconnected broken section joints, added additional anchors at the north and west sides of the polygon. Repositioned misaligned fish weir sections.

Summary of Maintenance Performed (South Terminal Area):

__ Replaced two sections of damaged bubble curtains. Realigned and reset anchors at South Terminal fish exclusion area. Repositioned misaligned fish weir sections.

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 checked="" type="checkbox"/>	14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
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