

From: Sneeringer, Paul J NAE
To: [Keegan, Michael F. NAE](#); [Michalak, Scott C. NAE](#); [Bachand, Michael L. NAE](#); "Ann Williams"; [Cynthia Catri](#)
Cc: [Mike Marsh](#); [Phil Colarusso](#); [Jackie Leclair](#); [Ralph Abele](#); [Elaine T. Stanley](#); "tisa.kimberly@epa.gov"; [Chet Myers](#); [Jay Borkland](#); [Davis, Gary \(DCR\)](#)
Subject: South Terminal Project in New Bedford - REVISED plan drawing and calculations for the Successional Marsh (Drainage Swale) mitigation area (UNCLASSIFIED)
Date: Friday, August 03, 2012 1:59:00 PM
Attachments: [Updated Drainage Swale Drawings.msg](#)
[IMG_6740.JPG](#)
[IMG_6743.JPG](#)

Classification: UNCLASSIFIED

Caveats: NONE

Mike, Scott, Mike, Ann and Cindy:

In preparation for our upcoming meeting with Apex concerning the redesign of the Successional Marsh mitigation work associated with the South Terminal Project (see note below), enclosed for your review are REVISED plan drawings and wetland calculations for this work.

Please refer to Chet Myers's attached e-mail for a discussion of potential salt marsh impacts and mitigation associated with the REVISED Successional Marsh mitigation design. The revised design will allow for the creation/restoration of up to 0.18 acres of low salt marsh and up to 0.19 areas of high marsh. The transitional marsh area will be graded to an elevation above the high tide line ("HTL") elevation. This area constitutes an upland vegetative buffer.

Based up a review of Figure #14 (Existing Condition Survey) from the January 2012 South Terminal submittal, the proposed work will likely impact some existing salt marsh resources in the northern cell (Station 6+75 to Station 9+50) as well as along the remainder of the western bank work (Station 1+00 to Station 6+75). When we conducted the team site visit on July 24, 2012, we noted a continuous 8-12 foot wide salt marsh area from Station 7+50/8+00 to at least Station 0+00 (see attached photos). With this in mind, the REVISED Successional Marsh design could impact up to 0.25 acre of existing salt marsh areas.

Feel free to contact me if you have any questions about the information presented in this e-mail. Thanks.

Paul Sneeringer
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P.S. Based up EPA request to be included in the Corps/Apex meeting to discuss the REVISED Successional Marsh work, next Monday's meeting will be postponed. I will be contacting you next week about identifying an alternative date for this meeting. Thanks.

-----Original Message-----

From: Chet Myers [<mailto:cmyers@apexcoss.com>]
Sent: Thursday, August 02, 2012 7:11 PM
To: Sneeringer, Paul J NAE
Cc: Gregory Dolan; Jay Borkland; Davis, Gary (DCR)
Subject: FW: Drainage Swale Mitigation Area - Wetland Resource Calculations

Hi Paul,

You requested the following information regarding the Stormwater Drainage Swale Mitigation Area in your phone call with us on Tuesday:

As currently proposed (in the redesign), the mitigation area will (post-construction) consist of the following:

Intertidal/Mudflat/subtidal area that will be remediated and capped but not planted: 1.41 acres.

Upland area that will be re-graded and planted with low marsh plants: 0.18 acres.

Upland area that will be re-graded and planted with high marsh plants: 0.19 acres.

Upland area that will be re-graded and planted with transitional, marsh border plants (not including the bike pathway): 0.22 acres.

The total area of the Stormwater Drainage Swale Mitigation Area is 2 acres (which excludes the proposed bike pathway, which is approximately 0.25 acres).

Our previous wetland delineation (conducted prior to the Commonwealth's first mitigation proposal) indicated some existing wetland species within the drainage swale. The existing area of wetland species (approximately 0.1 acres) was subtracted from the overall Stormwater Drainage Swale Area, which is why the Commonwealth had stated that the area of the successional marsh that was proposed for mitigation was approximately 1.9 acres (2 acres overall – 0.1 acres = 1.9 acres).

We are not sure whether the area of existing wetland within the drainage swale has increased or decreased since the Commonwealth's first delineation; however, our drawings (which show a total area of approximately 0.1 acres of existing wetland) show an area that runs along the tide line in patches, and is between 5 and 20 feet in width (depending on the location). This isn't materially different from what USEPA observed onsite. We would need to do a subsequent assessment to determine whether the existing marsh area had changed at all.

Due to the Commonwealth's redesign of the mitigation measure to address USACE's design objections regarding the hydraulic nature of the channel, the Commonwealth has had to alter the ratio of low/high marsh to intertidal/mudflat/subtidal area that is being mitigated.

This has resulted in a reduction in the size of the low/high marsh, and an increase in the size of the remediation of the intertidal/mudflat/subtidal area.

We will have to discuss whether EPA places any value on enhancement of the subtidal area in compensation for other wetland resources that are being impacted. If not, it would not be in the Commonwealth's best interests to remediate the drainage swale; however, it is possible that some of the low/high marsh mitigation can be completed without conducting the mitigation of the

intertidal/mudflat/subtidal area, and perhaps also without impacting the existing marsh areas onsite (since much of the low-high marsh creation in the redesign is at the northern end of the swale, north much of the existing salt marsh).

Thanks,

<<http://www.apexc.com/>>

Chet Myers, PE, LSP

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Caveats: NONE





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SDMS Document ID #: 529013

Site Name: New Bedford

File Type(s) Attached (examples: Excel file or .jpg):

.msg, .jpg

Document Type this Target Sheet Represents:

Map Photograph Graph/Chart

Video Compact Disc Other (Specify below)

Description or Comments:

Msg File name: Updated Drainage Swale Drawings.msg

To view the attached files, open the "Attachment Panel"

by clicking the paper clip -  - in the left side panel of this window.

**** Please note to view attachments the software corresponding with the specified file type is necessary. ****

For any additional assistance please contact the EPA New England Office of
Site Remediation and Restoration Records and Information Center-
Telephone (617) 918 1440