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MCRD PARRIS ISLAND
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EMAIL REGARDING U S EPA REGION IV COMMENTS ON SINKHOLE REPAIR AT SITE 3
CAUSEWAY LANDFILL MCRD PARRIS ISLAND SC
11/8/2010
U S EPA REGION IV

From: Llmas.Lila@epamail.epa.gov
To: [Donohoe Civ Lisa C](#)
Cc: [Meredith Amick](#); bowersjb@dhec.sc.gov; [Cook, Charles CIV NAVFAC SE](#); [Stacey French](#); [Annie Gerry](#); [Kent Krieg](#); [Sladic, Mark](#); mmcrae@techlawinc.com; [Churchill, Peggy](#); [Smith, Preston](#); [Reed, Sarah M CIV NAVFAC SE, JAX](#); [Harrington Timothy J](#)
Subject: Re: Site 3 Sinkhole
Date: Monday, November 08, 2010 2:35:08 PM

Hi Lisa (and Team),

Sorry I could not get back to you by COB Friday, since I was away from the office and could not access the necessary Site 3 information. I have now returned to the office and looked at what you had sent, and the email with the State's concerns regarding filling with asphalt.

EPA would suggest the following, since this particular sinkhole appears to be very shallow and has not apparently penetrated the soil cover completely:

- 1) remove the asphalt which has fallen into the sink hole.
- 2) Fill the sink hole with compacted soil as called for in the IROD, to a depth which restores the required cover amount to the original grade. The Navy/MCRD should determine what will be needed to establish the desired compaction. Otherwise, the Navy/MCRD should proposed an alternative fill which will accomplish the same objective without potentially adding additional contaminants (e.g. PAHs).
- 3) The new compacted soil/fill could then be covered with asphalt to replace the asphalt lost from the bike path.

This approach should address the State's concerns pertaining to filling with asphalt, restore the cover to meet IROD objectives, and allow MCRD to address safety concerns in a timely manner.

As a follow-up (and as proposed by EPA's redline to the Team's November 2010 meeting agenda) EPA would like to discuss the need for a Site 3 Remedial Design which would not only update LUC language (from the LUCIP into a LUC component of the Remedial Design), but also address integrity/maintenance of the landfill soil cover (prevention of/response to sinkholes, woody vegetation removal, etc.). Recent communications from MCRD have indicated the Navy will have an engineering evaluation of the causeway to determine if the culverts are leaking or if there is some other causative factor for the sinkholes. EPA would like to see the schedule for conducting this evaluation and recommends the Navy/MCRD get buy-in from EPA/SCDHEC, so the results and recommendations can easily be used in the Remedial Design component for maintenance of the cover.

EPA appreciates the Navy/MCRD keeping the team apprised of conditions of the soil cover and looks forward to getting a plan in place to address the issue long-term.

Lila

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Date: 11/03/2010 05:40 PM

Subject: Site 3 Sinkhole

Team:

Due to safety issues associated with the current sinkhole undermining the walking/biking path that runs along Site 3, MCRD intends to fill the current sinkhole with asphalt. There will not be intrusive activity associated with filling the sinkhole with asphalt.

If team members have concern regarding filling the sinkhole with asphalt, please respond to this email by 5:00 p.m. Friday, November 5, 2010. If there are concerns, MCRD will schedule a conference call for Team discussion. If there are no concerns, MCRD will request Facilities and Maintenance Division proceed with filling the sinkhole.

V/R,
Lisa