From: Chet Myers
To: Tisa, Kimberly; Catri, Cindy
Cc: Bill White; Christopher Morris; John McAllister; Michael Bingham; Jay Borkland; Dierker, Carl
Subject: Proposal for Additional Borings
Date: Wednesday, September 25, 2013 5:43:37 PM
Attachments: image001.jpg
image002.png
image003.png
DGAs - EPA EPA Submittal Proposed Boring Locations 25 Sept 2013.pdf
Schuster Bldg Aerial.pdf

Hi Kim and Cindy,

Thanks you for taking the time to discuss MassCEC's continuing efforts to delineate the areal and vertical extent of PCBs on the project property. Attached to this e-mail, please find drawings demarcating the results of samples collected to date within Hot Spot Area 1 and the Detailed Grid Areas (DGA-1 through DGA-8) which have been delineated within the past few weeks.

Per our discussion at the meeting on September 25, 2013, Apex understands that EPA has requested additional vertical characterization for Detailed Grid Areas (DGA-1 through DGA-8) via the advancement of borings at 22 locations. In addition, EPA has indicated that additional excavation within Hot Spot Area 1 go to bedrock, if MassCEC was unable to show that the glacial till was not impacted at or above 50 mg/kg.

As a result of these discussions, MassCEC proposes to advance additional borings in the locations as shown on the attached drawings. MassCEC may also advance three borings within Hot Spot Area 1 in order to assess whether Glaical Till is impacted with PCBs. The proposed boring locations are shown on the attached drawings. In addition, the boring locations are summarized in the following table:

Detailed Grid Area (DGA) or Hot Spot Area	Proposed Depth of Excavation (ft)	Stockpile Reference Area	*Proposed* Borings	Max PCB Concentration (ppm)	Proposed Boring Depth (ft)
DGA-1	1.5	A-1	*AA1, LL9, FF5*	*1,050*	5
DGA-2	4.5	C-1, D-1	*FF3, FF5/FF6, BB5, CC2*	3,710	8
DGA-3	1.5	H-2	*CC1*	117	5
DGA-4	1.5	C-1	*CC2, FF3*	243	5
DGA-5	5	C-1, D-1, D-2b	*DD4, AA1, LL11, NN7, and L7/L8 (L7.5 on 25' grid)*	1,020	8
DGA-6	1.5	D-1, I1a,	*FF14, JJ12, II3*	99.7	5
DGA-7	1.5	D-2b, H-1	*AA2, DD4*	360	8
DGA-8	1.5	I-1a	*CC5, AA2 (H-1 on 25' grid)*	575	6

Hot Spot Area 1	Concrete Bottom of Tank (if present) or Bedrock or Till (depending on the results of borings, if completed)	N/A	*Potential Borings: I-10, I-6, and F-9*	1,070	To Bedrock

MassCEC proposes to advance the borings within the DGA areas as outlined, and review the resulting data. If the data is consistent with the data collected to date within a DGA area, MassCEC proposes to excavate each of the DGA areas to the proposed Depth of Excavation as noted above. If the data is significantly inconsistent with the data collected to date, MassCEC will prepare a Work Plan for EPA review that outlines an alternate Proposed Depth of Excavation to accommodate this new data.

For the remaining areas of concern within Hot Spot Area 1, MassCEC proposes to excavate to the elevation of the concrete bottom of the tank found within the excavation (if present). If no concrete bottom of the tank is present, MassCEC proposes to excavate to bedrock; however, MassCEC may advance Potential Borings as noted on the attached drawings and the table above to determine whether the glacial till in the location of Hot Spot Area 1 is impacted with PCBs at or above 50 mg/kg. Please note that a number of logistical issues may prevent MassCEC from being able to advance these potential borings; however, if the results of the borings indicate concentrations of PCBs below 50 mg/kg within the glacial till (and no concrete bottom of the tank is located), MassCEC may excavate the remaining areas of concern within Hot Spot Area 1 to the elevation of glacial till instead of bedrock.

The proposed and/or potential soil borings will be advanced using a track mounted Geoprobe drill rig, advancing a 2-inch diameter sampling probe to the proposed total depth of the boring. The Geoprobe collects soil samples in a clear plastic sleeve in 5-foot increments. The soil sample boring sample collected at each location will be visually inspected, logged, and soil samples collected at 1-foot intervals. The soil samples will be submitted for laboratory analysis for PCB analysis. Samples will be analyzed via soxhlet extraction or for PCB screening with subsequent soxhlet extraction of samples <50 ppm.

EPA has also requested that MassCEC propose a methodology for preventing re-contamination of areas after remediation has been completed. Two properties are located to the north of the New Bedford Marine Commerce Terminal (Quality Packaging and Shuster Corporation). The Shuster Corporation property is paved (see attached aerial photo) and drains to a stormwater catch basin (and the adjacent side-slope is covered in rip-rap or stone); as a result, transport of contamination to the New Bedford Marine Commerce Terminal is not likely. However, the Quality Packaging site is unpaved. MassCEC proposes to compare the grades between the area of the New Bedford Marine Commerce Terminal and potential adjacent properties that appear to contain potential concentrations of PCBs within surface soil that could be transported via stormwater suspension back onto the New Bedford Marine Commerce Terminal property. If the grades on the adjacent properties are higher than the final grades of the New Bedford Marine Commerce Terminal, a small berm will be constructed on the property boundary to prevent stormwater from migrating onto the final cap.

Thanks,

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