EASTWICK LOWER DARBY CREEK AREA COMMUNITY ADVISORY GROUP

TECHNICAL WORKING GROUP MEETING MINUTES

September 17, 2015

MEETING SUMMARY

The EPA met with TWG to review the following items:

- Pre-Design Investigation (PDI) Work Plan
    a. The revised PDI Work Plan is complete and awaiting one final signature from the Ft. Mead laboratory folks.
    b. The Work Plan has been changed to reflect comments from DCVA's TAG consultant, specifically:
        1. The Residential Sampling Unit (20' X 25') will be employed for characterizing any boring that has analytical results that exceed the Site's cleanup values.
        2. 10% of the delineation borings (borings every 50' along the perimeter of the site) that are found without visible waste or "stained" soils will be analyzed to confirm that they are below the Site's cleanup values.
- Borrow Source Assessment
    a. The samples of dredge material from the Ft. Mifflin Upland Confined Disposal facility have been collected and are at the laboratory.
    b. If the material is found to be suitable, a separate work plan will be prepared for further evaluating the use of the dredge material as cover material.
- PDI Schedule
    a. EPA plans to begin the PDI work on or about October 5, 2015, in the following order:
        1. Background dioxin, PAH and metals sampling in the parks.
        2. Borings to delineate waste limits/landfill limits, with step out and step down procedures:
            i. Step Out = If boring has waste or staining or one of the 10% delineation borings has a result that exceeds Site cleanup values, another boring or borings will be advanced farther from the landfill until clean soil is found.
            ii. Step Down = If a boring has waste or staining or one of the 10% delineation borings exceeds Site cleanup values a deeper boring will be advanced until either unimpacted soil or the groundwater table is encountered.
        3. Borings on top of the Landfill to delineated the thickness of the existing soil cover on top of the waste.
- Update on Remedial Design Work
    a. Flood/Hydrologic Modeling is being performed
        1. The EPA must be able to cover the landfill without any measurable changing in any flood elevations on adjacent, upgradient or downgradient properties.

2. To achieve the goal of no change in flood elevations, EPA must model how flood waters will behave after the landfill cover is installed because waste will be moved from one place to another on the Site and covered with soil.
3. EPA is joining flood models (computer models that project how floodwater will behave when the channel and/or land surface in floodplain are changed) one that was prepared by the Corps of Engineers and one that was prepared by FEMA. Issues were found when trying to match up the modeling work from those two agencies. It was discovered that FEMA's work was based on an erroneous elevation so EPA is correcting that error and hopefully the models will match.
4. The reason the two models must be matched/joined is because one models the non-tidal floodwater (flowing down from Darby and Cobbs Creeks) and the other models tidal floodwater (water moving in and out of Darby Creek). The Landfill is located where there are both tidal and non-tidal waterways and there can be both tidal and non-tidal flooding, so both must be assessed.
5. EPA is approaching the remedial design work with the goal of no increase in flood water elevations, due to fill placed in the floodplain. Using this design approach means any filling within the floodplain that results in an increase in the ground surface elevation will be balanced with an equal proportion of ground surface elevation decrease in other areas so that there is no overall rise in the 100-year flood water elevation.
6. To clarify EPA's responsibility regarding flooding on the site and in the surrounding area: "EPA will where possible, while designing the remedy for the site, seek to improve the flooding situation. They are designing the remedy with the understanding that there can be no negative change in flooding and to make improvements where possible, as long as it can be justified within the design for the remedy."
7. The landfill cover will change the way the floodplain is mapped on the Landfill. Those changes are not permitted to increase flooding on any adjacent property. But because there will be changes to the floodplain on the land where the Landfill is, a Letter of Map Revision (LOMAR) is required by FEMA. FEMA will need review and approve the grading plan and flood model and upon approval, FEMA's Flood Insurance Rate Map (FIRM) will be edited to show the change in the mapping of the floodplain on the Landfill site.

b. The preliminary design is underway

1. The grading plans are being worked on.
2. When EPA releases the preliminary design for review by the CAG, etc. the drawing will show preliminary grading plans and where various landfill components will be located e.g., site access roads, leachate treatment system(system catches contaminated water discharging into Darby Creek) , stormwater management system (system catches stormwater runoff from the landfill after rainfall) components, etc.. EPA informed us that ALL OF THE INFORMATION ON THE PRELIMINARY DESIGN DRAWINGS IS AT A CONCEPTUAL LEVEL OF DETAIL AND MAY UNDERGO SIGNIFICANT CHANGES PRIOR TO THE INTERMEDIATE DESIGN.

- There were discussions regarding setting up a meeting where the Design Process for a Landfill can be presented to the TWG/community by EPA's contractor. It was proposed to have the "Landfill Design Process" presentation at the next TWG meeting on October 28, 2015. If this is supported by the CAG then the whole community must be made aware of the meeting. It will be very educational and presented at a level so that everyone in attendance will understand the process.
- There were discussions regarding setting up another meeting where the flood modeling can be presented by EPA's contractor to the TWG and then a separate less technical presentation to the CAG and community at large. Those meetings would need to be on consecutive days so that EPA's contractor can make the most of the time, as they will be traveling from Chicago, IL.
- EPA was asked if the leachate treatment wetlands would be constructed on the parkland adjacent to the Landfill and whether they had approval from Philadelphia Parks and Recreation for taking the land for that purpose. EPA replied that yes, the leachate treatment wetland are to being designed for construction on the park land, and that they are likely going to be much smaller than originally thought, and no they did not have the approval of Philadelphia Parks and Recreation. The TWG mentioned that this would take a significant portion of the parkland out of public use for the leachate treatment system, and would likely be fenced off from access. The TWG believes that this needs to be better understood by the community so that they know what the leachate treatment system will look like and how much parkland will no longer be accessible to the community residents.

ACTION ITEMS FOR NEXT TWG MEETING: (next meeting September 17, 2015 @ Eastwick Recreation Center)

1. Updates on progress of 30% Design (Conceptual Design).
2. Updates on progress of PDI work.
3. Discussions regarding EPA's progress with regard to steep slopes and stability on the western side of the Clearview LF.

Up Coming TWG Meeting Dates at 4:00 PM (locations to be determined):

October 28, 2015 (meeting at Eastwick Recreation Center)

November 23, 2015

December 17, 2015