

Eastwick Lower Darby Creek Area Community Advisory Group (ELDCA CAG)
eldca.cag@gmail.com
[LDCA Superfund Site Community]
Eastwick Mercy Wellness Center
October 14, 2015
Sponsored by US EPA Region 3

The Eastwick Lower Darby Creek Area Community Advisory Group [ELDCA CAG] Meeting [for the Lower Darby Creek Area [LDCA] Superfund Site in Eastwick PA] was held on Wednesday, October 14, 2015 at the Eastwick Mercy Wellness Center. The meeting began at approximately 6:10 pm and adjourned at 7:55 pm. [Please see the agenda for the October 14th meeting at the end of this meeting summary - Appendix A.] Approximately 27 people were in attendance for this meeting.

WELCOME and INTRODUCTIONS

Leo Brundage, a member of the ELDCA CAG Leadership Team, welcomed everyone to the meeting. He thanked everyone for coming out to support the CAG and acknowledged new attendees and asked them to introduce themselves. The new attendees included: Karen Holm, Manager of Environmental Planning, Delaware County Planning Department; Steven Beckley, Senior Planner (Environmental Section), Delaware County Planning Department and; Katie Breiner, University of Pennsylvania, Senior, Capstone Project on Flooding in Eastwick. All new attendees stated that they are looking forward to attending future CAG meetings as well. Leo then introduced Josh Barber, EPA's Remedial Project Manager [RPM] and invited him to provide a Site update for the Lower Darby Creek Area [LDCA] Superfund Site.

EPA SITE UPDATE

Technical Update: Josh Barber, RPM for the LDCA Site, provided an update on technical activities at the Site.

Josh discussed the current status of several activities related to the Remedial Design (RD) for Operable Unit (OU1) of the Site, the Clearview Landfill Soils, Waste and Shallow Leachate. Development of the RD preliminary (30%) design is ongoing. EPA expects to provide the 30% RD to the CAG and TAG for review in October or November. The Pre-Design Investigation (PDI) sampling plan was completed in early October and is available on the LDCA website. EPA is planning for the PDI on October 22, 2015 and the sampling should last through most of November.

The outline for the Community Health and Safety Plan (CHASP) was recently presented to the Health, Safety and Communications Working Group. Based on input during that meeting, EPA and Tetra Tech are revising the CHASP outline and then will start on developing the body of the Plan.

For Operable Unit 3 (OU3), contaminated groundwater associated with the Clearview Landfill, Josh indicated that the third round of groundwater sampling from EPA's extensive monitoring well network has been completed and most of the results have

been submitted and validated by EPA. Tetra Tech is currently developing the Remedial Investigation (RI) report, which will discuss the nature and extent of the groundwater contamination as well as how the groundwater contamination is moving and what the potential future health risks from drinking the groundwater may be.

For Operable Unit 2 (OU2), the Folcroft Landfill, Josh discussed the ongoing investigation by the Responsible Parties (RPs) of the bedrock aquifer to determine if the groundwater is contaminated. Previous results have determined that the shallow aquifer is contaminated with contaminants related to OU2. The main contaminants are 1,4-dioxane and trichloroethene (TCE). The RPs were able to install 2 out of 3 planned bedrock monitoring wells. One well could not be installed due to an inability to seal off the overburden from the bedrock. This could have caused potential contamination from one aquifer to move into the other. So, the RPs are going to remobilize to install the 3rd planned monitoring well in October. The bedrock monitoring well that was installed beneath the landfill did find contamination in the shallowest bedrock water bearing zone. Once the results from the 3rd monitoring well are available, EPA, PADEP, USFWS and the RPs will meet to discuss next steps.

Josh also stated that the EPA is also conducting a baseline risk assessment of the aquatic areas of the LDCA Site, e.g., sediment, fish tissue and turtle tissue. All of the needed samples have been collected, the last of which was the collection of 5 snapping turtles. While the results on the turtles are not available, EPA's contractor is currently developing the baseline risk assessment using the remainder of the data and will add in the turtle tissue data once it is available.

When Earl Wilson asked if the EPA has tested the aquifers around Clearview Josh responded, "we have determined the boundaries with certainty. We can draw a solid line around where the contamination is." In response to Terry William's question about videos of longer duration to inform the community about the cleanup process, Josh explained that the in-the-moment, short, one-minute videos require only low level approval (one-line manager) to produce, whereas producing videos or movies of longer duration may take years to approve.

Community Involvement Update: Larry Brown, CIC, for the site provided an update on community involvement activities.

EPA's Community Involvement Plan [CIP]: Larry announced that Marion Cox is officially back on board as neutral facilitator to assist the CAG and EPA and that she will be working with the CAG on building partnerships and recruiting expert resource members, and that she has been working with the Leadership Team to set up a partnership meeting in December.

Larry also announced that the first draft of the Community Involvement Plan should be ready in the spring of 2016 and will be available for review and comments from the CAG, Tag and the Eastwick Community.

In response to the question asked at the previous CAG meeting about EPA providing a LCD projector for the CAG's use, Larry stated that, unfortunately, EPA is unable to distribute government property in that manner. He also stated that they will be hosting

another Community Informational Session in the spring and also plan to hold several smaller (Block) meetings as EPA moves closer to the beginning of construction.

WORKING GROUP REPORTS

The new ELDCAG CAG “working groups”, which were recently established in accordance to the procedures outlined in the ELDCAG CAG Operating Procedures, continue to make significant strides toward addressing issues and concerns presented at CAG meetings over the course of the past several months. Those working groups include the Technical Working Group and a Health and Safety Working Group, established between the May 13th CAG meeting and the June 10th CAG meeting. A third working group, the Communications Working Group, was formed between the June 10th and the July 8th CAG meetings and was shortly thereafter merged with the Health and Safety Working Group between the August 12th and September 9th CAG meeting to form the newly consolidated Health, Safety and Communications Working Group. This report contains the first combined Health, Safety and Communications Working Group Report.

Typically CAG working groups will meet once monthly, and in advance of regularly scheduled CAG meetings, so that the co-chairs of the working groups can report back to the full CAG membership about what transpired in their working group meetings. Therefore, a regular component of each CAG meeting summary will be reports from each of the CAG working groups.

The following CAG working group reports are detailed below:

- Technical Working Group Report
- Health, Safety and Communications Working Group Report

**1. Technical Working Group: Pre-Design Investigation Sampling Plans
[Summary from September 17, 2015 Technical Working Group [TWG] meeting]**

The EPA met with the Technical Working Group 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 Ft. Mead laboratory officials.
 - 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 delineate 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 floodwaters 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 floodwater 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 to 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 wetlands are 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 October 28, 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):

November 23, 2015
December 17, 2015

**2. Health, Safety and Communications Working Group: Comments on EPA's Community Health and Safety Plan Survey
[Summary from September 17, 2015 Health, Safety and Communications [HS&C] WG meeting]**

1. Introductions

2. Community Health and Safety Plan – Dr. Jennifer Carothers and Jim Laffey

The purpose of the CHASP is to communicate planned activities for the Clearview cleanup to local community members; discuss the potential hazards that may arise

during the cleanup; describe the steps that will be taken to protect the local community during cleanup activities; and explain how all of this will be communicated to residents.

Outline of CHASP – intended literacy level at 7th grade and translations

- Introduction
- Site description and background information
- Project summary and remedy selection
- Potential hazards and nuisances during remedy
- Project safety management
- Community education and coordination

The CHASP may possibly include a health and safety section in upcoming fact sheets and press releases from the EPA, and designate a bulletin board at the Rec center for CHASP and Clearview cleanup updates, as notifying the community of an issue and the results from testing sites will need to happen in a timely manner.

1. Addition of Communications Activities

Communications planning responsibility has been added to the H&S workgroup. We discussed and approved the mission statement for the workgroup, which is attached. We discussed what should be included in an overall Communication Plan. Communication to the community should include emergency information and other health and safety information pertaining to the site.

What are the required parts of the communications plan?

- A multifaceted approach to consider the best methods to reach community members of various age groups and reading levels; on a routine communication and emergency communication basis
- Emergency communications: Warning systems and strategic location of these systems; and what do the alerts mean
- Routine communication
 - Older community members – best reached through phones; cell phones are not available for all residents
 - Utilize resident CAG members to communicate with the people that they represent. Anna Katenta was asked to map the home addresses of CAG members so that we can recommend communication areas for each. In addition, we discussed having CAG members define who they are representing (those affected by construction, etc.)
 - Utilize block captains to communicate with neighbors
 - Mass email
 - Defining communication area dependent upon what the communication is and determine boundaries for communication dependent on message
 - Community members with children
 - Daycares (licensed day cares find through city); schools; rec centers

Communication Options

- Calling cell phones and/or landline phones using robo call

- Utilize community newspaper; create a monthly section for superfund site information. EPA can pay to have Globe Times delivered depending on the message pertaining to the site
- Eastwick Bike Patrol; Officer Joe Young
- Announcements through church bulletins
- To cancel meetings: post messages at meeting locations; KYW radio station

Emergency preparedness

- Office of Emergency Management may have information on individual emergency preparedness plans and community guidelines

2. Future meeting dates and location: Eastwick Recreation Center 10/28, 11/23, 12/17

Attendance:

Dr. Marilyn Howarth	Eileen San Pedro	Chere Driver	
Josh Barber	Jim Laffey	Earl Wilson	
Dr. Jennifer Carothers	Margie Cobb	Anna Katenta	Larry Brown

PRESENTATION

Evaluating Cancer Risk for Eastwick – Jessica Murray

This presentation was postponed until a projector can be obtained to facilitate the power point presentation at a future meeting.

Gardening in Eastwick – Anna Herman

Anna Herman, from the Penn State Extension Program, offered to serve as a resource to the CAG on how to develop an urban garden and how to use vacant land safely. She provided attendees with a copy of the Penn State Extension brochure **Gardening From the Ground UP**, which highlights four important steps to take for safe gardening. Anna, emphasized how invaluable the publication is to ensuring safe and healthy gardening by stating the following key points from each step:

STEP 1: TAKE A CLOSER LOOK *at your potential garden site*

From this section, Anna pointed out the importance of preparation. She stressed that you should first gather the tools you will need for safe gardening, be mindful of what to look for in and around the area you plan to garden, and know the essential questions to ask before digging in the soil. She even pointed out that residents are required to call 811, at least three business days before digging to have utility lines marked, and that there is no charge for this service.

STEP 2: FIND OUT *about your site history*

Anna pointed out that this section of the brochure explains the components of healthy soil, but warns that urban soil and gardening sites with past industrial and commercial uses may no longer be safe, and may in fact be contaminated by chemicals or elements

that could possibly pose health risks. To demonstrate this point, the brochure contains a chart that lists general sources of contamination, examples of previous site uses, and specific contaminants. An example of a segment of the chart is below:

General Source	Example of Previous Site Uses	Specific Contaminants
Burning waste	Landfill operations	PAHs, dioxins

STEP 3: DON'T GUESS... soil test!!!

Anna warned that whether planning to plant food in the ground, or not, residents should know what's in the soil because there are even risk from bare soil (soil to human contact) and that not gardening is worst because the dust from the bare contaminated soil can be trailed into your home on your shoes, etc. To reduce such risks, she suggested putting down cardboard, wood chips/mulch or turf cover to break down contaminations in soil. Anna also recommended adopting soil-testing strategies based on how you plan to garden, and that the best gardening practices, particularly for growing items to be eaten, are raised gardens. For these purposes, she recommended using organic soils and rated Fairmont Park as a good resource for organic soil. Dr. Howarth stated that in this community (Eastwick) we don't really know what's in the soil and reiterated that it is best to use raised bed gardens for growing produce, herbs, etc.

STEP 4: INTERPRETING THE TEST RESULTS and amending soil

Anna stated that she will try to obtain a grant to have the soil tested, and that Penn State may be willing to provide reduced rates for group soil testing in Eastwick as well. Amy Laura Cahn mentioned that other possible sources of funding may also be available for testing public use gardens. Anna pointed out that partnering with the Philadelphia Orchard Project should be considered as orchards could be a productive use of vacant land in Eastwick. Josh suggested a community orchard for future use of the landfill with a community steward selected to care for it. Anna urged attendees to call the master gardener hotline (215.471.2200) on back of the **Gardening From the Ground UP** brochure for additional information on gardening.

ELDCA CAG Agency Partners Update:

Ted Pickett informed everyone that Marion Cox is contacting prospective partner agencies by phone to determine which agencies will be able to attend the December 10, partner agency meeting. Ted will follow-up with additional details confirmed.

Member comments and overview of the November 16, 2015 CAG meeting.

Leo Brundage thanked the CAG members for their part in helping to make the meeting a success and adjourned the meeting at approximately 7:55 pm.

PLEASE NOTE THAT THE FOLLOWING APPENXICES APPEAR AT THE END OF THIS SUMMARY:

APPENDIX A FROM THE OCTOBER 14, 2015 CAG MEETING

APPENDIX B FOR THE UPCOMING NOVEMBER 16, 2015 CAG MEETING

Keep Abreast of All CAG Activities

Sign-up to the EPA Listserv to Receive Monthly Updates and Other Timely Information (<http://go.usa.gov/vQv3>).

Visit the Eastwick Lower Darby Creek Area CAG (ELDCA CAG) Website To Review CAG and Working Group Minutes and Other Vital Information:

Login website: <http://www.eldcacag.org/wp-admin>

Username: kanna@mail.med.upenn.edu

Password: COEC*eastwickcag

Navigation Tips:

1. Login into the ELDCA CAG website. This will take you to the Dashboard page (the page that allows you to modify the website).
2. In the upper left corner of the website click on the house icon. This takes you to the CAG website and allows you to see the website.
3. Navigate through the different pages by clicking on the page names (About Us/Clearview Landfill/ etc).
4. To return to the Dashboard page, click on the compass icon in the top left corner.

APPENDIX A

Eastwick Lower Darby Creek Area Community Advisory Group (ELDCA CAG)

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LDCA Superfund Site Community

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US EPA Region 3

Meeting Location: Eastwick Mercy Wellness Center

October 14, 2015

- 6:00 pm Opening remarks by CAG Leadership Team – Leo Brundage**
- Welcome including review of agenda, purpose of meeting
 - CAG activities undertaken since September CAG meeting
- 6:10 pm EPA update on LDCA site activities – Josh Barber, Larry Brown**
- Update on technical site activities
 - Update on community involvement site activities
- 6:30 pm Working group reports**
- Technical working group: Report from September 17, working group meeting
 - Health, Safety and Communications working group: Report from September 17th working group meeting.
- 6:50 pm Evaluating Cancer Risk for Eastwick – Jessica Murray**
- 7:10 pm Gardening in Eastwick – Anna Herman**
- 7:50 pm Overview of November CAG Meeting**
- 8:00 pm ADJOURN**

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APPENDIX B
Final AGENDA

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Meeting Location: Eastwick Mercy Wellness Center

November 16, 2015

- 6:00 pm Opening remarks by CAG Leadership Team – Earl Wilson**
- Welcome including review of agenda, purpose of meeting
 - CAG activities undertaken since October CAG meeting
- 6:10 pm EPA update on LDCA site activities – Josh Barber, Larry Brown**
- Update on technical site activities
 - Update on community involvement site activities
- 6:30 pm Working group report**
- Technical working group: Report from October 28, working group meeting
- 6:40 pm Tetra Tech Modeling Expert – Kristi Root**
The focus of this presentation will include the modeling/flooding side of the Clearview cleanup, the process of using a model that demonstrates existing flooding, taking that model and incorporating the proposed cleanup plan conditions (elevations, slopes, etc.) and modifying that plan to ensure that it does not increase any of the flooding conditions. Kristi will also answer questions on these topics.
- 7:50 pm Solicit member comments and potential agenda items for December CAG Meeting**
- 8:00 pm ADJOURN**

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