

**Cleanup Standards Scientific Advisory Board  
Meeting Minutes  
April 22, 2015**

**CSSAB Members Present:**

Ronald Buchanan  
Joel Bolstein  
Chuck Campbell  
Jill Gaito  
Annette Guiseppi-Elie (via telephone)  
Michael Meloy  
Craig Robertson  
Tina Serafini  
Donald Wagner

**Environmental Protection Staff Present:**

C. David Brown  
Troy Conrad  
Carolyn Fair  
John Gross  
George Hartenstein  
Mike Maddigan  
Frank Nemec  
Keith Salador  
Jessica Shirley  
Brie Sterling

**Others Present:**

John Clarke  
Colleen Costello (via telephone)  
Neil Ketchum

**Call to Order**

Chairman Ronald Buchanan called the Cleanup Standards Scientific Advisory Board (CSSAB) meeting to order at 9:10 a.m. and requested around-the-room introductions.

The minutes from the December 17, 2014 meeting were approved with one edit: it was agreed in the 12/17/14 proceedings that the Indoor Air Quality (IAQ) subcommittee would schedule future meetings in support of draft vapor intrusion guidance revisions.

## **Land Recycling Program (LRP) Update**

DEP (Troy Conrad) addressed the CSSAB regarding LRP topics:

- CSSAB members whose term expires in June 2015 (Joel Bolstein, Annette Guiseppi-Elie, Michael Meloy, Ronald Neufeld, Craig Robertson, Tina Serafini) will need to submit a résumé and cover letter to Mr. Conrad with an expressed desire to continue participating on the Board. Dr. Guiseppi-Elie has changed employers but will continue to participate on the Board for her remaining term;
- New CSSAB officers will be elected during the December 2015 Board meeting;
- In light of the new administration in PA (governor and executive staff) there are no changes expected with regard to personnel or operating procedures within the Land Recycling Program (LRP);
- DEP is partnering with the Engineers' Society of Western Pennsylvania to host the PA Brownfields Conference May 13-15, 2015 at the Erie Bayfront Convention Center in Erie, PA;
- LRP program activity remains steady: to-date more than 5,500 Act 2 cleanups have been completed since the beginning of the program and more than 1,200 cleanups are currently in-progress;
- DEP's draft revised Management of Fill policy public comment period closed during February 2015 with more than 200 comments received. Each comment will be addressed by DEP;
- Chapter 250, Administration of Land Recycling Program regulation updates are expected to be considered by the Environmental Quality Board during the second quarter 2015; it is expected that the new Chapter 250 regulations will be published in the PA Bulletin during May 2015;
- Central Office LRP staff is scheduled to meet with US EPA Region 3 staff in Philadelphia on May 5, 2015. The anticipated topics for discussion will include grant opportunities and a PCB cleanup process discussion;
- The draft Vapor Intrusion (VI) guidance document is expected to be released for public review and comment in early June 2015. Mr. Meloy suggested a longer public comment period than 30 days due to the complexity of the draft guidance;
- Mr. Bolstein requested clarity of the rollout schedule for the Technical Guidance Manual (TGM). He suggested that the proposed upcoming revised TGM draft should be released for public review and comment simultaneously with the draft VI guidance document. Mr. Meloy suggested establishing sub-committees for TGM interfacing with other DEP programs which would be beneficial for the process.

## **Vapor Intrusion**

DEP (Mike Maddigan) presented a history of VI guidance and document revisions and current guidance document key points for the Board. Following Mr. Maddigan's presentation, Dave Brown of DEP presented a summary of key technical aspects of the proposed VI guidance document and the process of their development. The following issues/concerns were raised regarding the current version of the draft guidance document:

- The current version of the draft document establishes preferential pathways as a screening device. Concerns were raised that the preferential pathway evaluation will require additional time for investigation at a particular site, thereby requiring additional time to implement property transactions, thereby discouraging interested parties from entering into the Act 2 program;
- Preferential pathway screening methodology appears to disregard the other point-of-compliance and threshold screening values stated elsewhere in the guidance document;
- The preferential pathway portion of the draft guidance should be enhanced with direction on how to find preferential pathways at an Act 2 site;
- All references to ‘olfactory’ detections or indications should be removed from the guidance, as this may encourage a remediator to ‘smell’ soil samples;
- The definition of ‘Proximity Distance’ requires further clarification;
- The presence of separate phase liquids doesn’t automatically mean a vapor intrusion risk is present at an Act 2 site. This needs to be clarified in the guidance document;
- Several of the figures in the draft document require revision;
- Clarification regarding the use of the Johnson & Ettinger Non-Aqueous Phase Liquid model was suggested;
- It was suggested that natural attenuation monitoring termination should be expanded to include all substances rather than petroleum substances as currently stated;
- It was suggested to add a discussion in the guidance regarding the ‘grandfathering’ of open Act 2 sites when the new guidance becomes effective and how that affects the VI assessment conducted for those sites.

The draft guidance document is expected to be released for public comment on June 1. The Department will incorporate the Board’s concerns/comments as applicable into a final revised draft document. The CSSAB requested the opportunity to review the final draft document prior to submittal to the Policy Office (expected by May 1).

**Separate Phase Liquids at storage tank corrective action sites** – this agenda item was removed; will be discussed at next scheduled Board meeting.

### **Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM)**

With the increased exposure to radionuclide-containing shale cuttings from drilling conducted in support of natural gas drilling, DEP is intending to develop medium specific concentrations (MSC) for commonly encountered radionuclides. As such, DEP is seeking volunteer assistance from CSSAB for development of MSCs for radionuclides in soil.

The Board’s official position on this matter is to take the issue under advisement and get back to the Department with recommendations.

On a closing note, Mr. Buchanan expressed appreciation to the members of the IAQ subcommittee and the DEP for the effort creating the draft VI revised guidance.

**Meeting Adjourned at 2:40 p.m.**