

**Cleanup Standards Scientific Advisory Board**  
**Meeting Minutes**  
**RCSOB 14<sup>th</sup> Floor Conference Room**  
**November 16, 2016**  
*(revision to minutes conducted post-June 28, 2017 meeting)*

**CSSAB Members Present:**

Ronald Buchanan  
Joel Bolstein  
Colleen Costello  
Michael Meloy

Craig Robertson  
Mark Smith  
Mark Urbassik  
Don Wagner

**Department of Environmental Protection (DEP) Staff Present:**

C. David Brown  
Abbey Cadden  
Troy Conrad  
Carolyn Fair  
John Gross  
Mike Maddigan

Frank Nemec  
Randy Roush  
Keith Salador  
Brie Sterling  
Pamela Trowbridge  
Noreen Wagner

**Others Present:**

Jenny DeBoer  
Neil Ketchum

Kay Linnell

**Call to Order**

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

**Land Recycling Program (LRP) Update**

DEP (Troy Conrad) addressed CSSAB regarding miscellaneous Land Recycling Program (LRP) topics:

- Chapter 250 of the PA Code, Administration of the Land Recycling Program, has been published; work on new updates to the regulations will begin again in March 2017;
- Management changes in the Bureau of Environmental Cleanup and Brownfields (BECB): Randy Farmerie was named Environmental Program Manager (EPM) in NCRO; Kevin Halloran has been named EPM in SWRO; Ben Thonus has been named EPM in SCRO;

SERO has yet to name a new EPM for the retired Steve Sinding; George Hartenstein is currently serving as both Bureau Director and Acting Deputy Secretary of Waste, Air, Radiation, and Remediation;

- ECB's new Vapor Intrusion (VI) Guidance document is scheduled for publication on 11/19/16 to be effective 1/19/17;
  - a. ECB has partnered with Pennsylvania Council of Professional Geologists to develop VI guidance training at locations across the Commonwealth. The initial three training sessions are scheduled for December 2016-January 2017 and appear to be in great demand currently.
  - b. Carolyn Fair of Central Office will be the DEP point contact for all questions/comments for the VI guidance.
  - c. Michael Meloy of the CSSAB commented that an additional opportunity to comment on the VI guidance document will be provided to the public when the Technical Guidance Manual is published draft and open for public comment at a later date.
- PA Brownfields conference was held October 26-28, 2016 at the Lancaster County Convention Center. More than 325 attendees marked one of the most successful conferences to date. Initial planning has begun on EPA's National Brownfield Conference, scheduled to be held in Pittsburgh, PA in December 2017.

Craig Robertson requested further guidance from the DEP regarding a mechanism for appointing alternate members to the CSSAB. Mr. Conrad will look into the matter and advise Mr. Robertson.

Several Board members wondered on the status of former CSSAB member Chuck Campbell, whose term expired. To date a re-appointment recommendation has not been received by DEP for Mr. Campbell. The terms of board members Mark Urbassik and Ron Buchanan have likewise recently expired. DEP will await re-appointment recommendations from House Minority and Senate Minority, respectively, for Mr. Urbassik and Mr. Buchanan.

The minutes from the July 13, 2016 meeting were approved final from draft with no comments or revisions.

Board member Joel Bolstein inquired about updates to the BECB with regard to the budget funding source. It was reported the current funding source for BECB staff salaries and operating budget will remain in-place for an additional 18-24 months. No additional news regarding this issue was noted at this time.

Mr. Bolstein inquired about the CSSAB's possible involvement regarding the study of emergent contaminants perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) with respect to the Land Recycling Program. The general consensus from the Board was that the study of these emerging contaminants is still evolving and it is therefore premature to request the CSSAB to examine the issue. Mr. Bolstein suggests reconvening the Risk Assessment sub-committee (chair: Annette Guiseppi-Elie) to investigate this matter further.

## **Feedback from Board on Draft Sections I, II, and III of TGM**

CSSAB member Coleen Costello presented the Board's compiled comments for the draft TGM Sections I, I, and III (handout reviewed). The usage of Special Industrial Area (SIA) as a fourth cleanup standard under Act 2 was discussed. CSSAB suggests that site cleanups performed under the SIA requirements occur only to the point where safety is maintained to the site occupants for productive re-use of that site, rather than full cleanups to one of the three Act 2 standards (Statewide health standard, site-specific standard, or the background standard). CSSAB will work on providing DEP additional language for use in the TGM for the SIA standard.

CSSAB member Craig Robertson discussed the logic behind a requested addition of an exception to the risk assessment screening process performed under the SSS. In a theoretical scenario, if the groundwater exposure pathway has been eliminated (also including the scenario when the TDS concentration in groundwater at a theoretical site exceeds 2500 mg/l), then the screening process could utilize the direct contact soil numeric values to screen which contaminants would need to be evaluated in a risk assessment. DEP responded that it would make this change.

CSSAB questioned why sediment was introduced under background standard cleanups in the TGM as sediment is not mentioned in the statute. CSSAB requests further development of this reasoning in the revised TGM.

CSSAB to provide language suggesting further clarification of the rationalization of the application of the 1/10<sup>th</sup> factor to the soil-to groundwater generic values.

## **Draft Section V and VI of Technical Guidance Manual (TGM) Review and Discussion**

Draft Section V of the revised TGM was originally distributed to all CSSAB members approximately two weeks prior to today's meeting. Mike Maddigan reviewed highlights and changes proposed in this section of the forthcoming revised manual. Noreen Wagner summarized revisions to the Regulated Storage Tank Release site interaction with Act 2. CSSAB did not have any formal comments regarding the draft Section V of the TGM at this time.

CSSAB requested further clarification from DEP regarding the need to capture separate phase liquid at the point of compliance of a site specific standard cleanup with no risk of exposure.

General concern was expressed by the CSSAB on the lack of detailed interfacing between Act 2 and PCB cleanups and Oil & Gas cleanups in the revised Section V TGM draft.

Comments regarding CSSAB review of the draft Sections V and VI will be submitted to DEP by March 2017 for consideration. CSSAB TGM process sub-committee may reconvene prior to March 2017 to compile comments for submission to DEP.

## **Technical Questions for the Board**

- Confidence level of toxicity values – DEP/CSSAB discussion regarding provisional peer reviewed toxicity values (PPRTV); it was discussed that EPA’s PPRTV may not be a reliable source to base the MSCs on (this discussion was based on the metal vanadium, as an example); DEP will review the PPRTV list and ‘flag’ low confidence values for future consideration and research.
- Pennsylvania Natural Diversity Index searches – may need expanded description of these searches in the TGM revision; possibility that additional databases will also need to be examined in order to meet the needs of an Act 2 cleanup.
- Expedited rulemaking to correct Aldrin residential groundwater MSC – new Chapter 250 regulations were published with an incorrect value for Aldrin; DEP legal (Keith Salador) explained the expedited rulemaking process to correct the issue.

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