

ERDC-CRREL Restoration Advisory Board
Minutes of Meeting #3, March 26, 2014

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2 Location: Frances C. Richmond Middle School Library, Lyme Road, Hanover NH

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4 Members Attending: Darrell Moore, USACE-NAE, Co-chair
5 Ken Richards, NH DES
6 Kristine McDevitt, Citizen Volunteer
7 Kate Connolly, Citizen Volunteer, Town of Hanover
8 Roelof Versteeg, Citizen Volunteer
9 Jonathan Brush, SAU 70
10 Walter Noll, Citizen Volunteer
11 Stephen Gaughan, Citizen Volunteer
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13 Also in attendance: Rod Rustad, AMEC Scientist
14 David Van Wie, AMEC, RAB Facilitator
15 Larry Cain, USACE-NAE
16 Larry Danyluk, ERDC/CRREL
17 Bryan Armbrust, ERDC/CRREL
18 Jeffrey Pickett, AMEC Project Manager
19 Scott Calkin, AMEC Scientist
20

21
22 Chairman Darrell Moore called the meeting to order at 4:05 pm. He noted that co-chair Tim
23 McNamara was absent due to an unexpected personal matter.
24

25 1. Welcome & Introductions

26
27 Mr. Moore welcomed the attendees. RAB team members and attendees in the audience
28 introduced themselves, including the two new members, Dr. Noll and Mr. Gaughan.
29

30 2. Minutes of Meeting #2

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32 Minutes of Meeting #2 were presented for consideration. No comments or changes were
33 requested. Motion to accept the minutes was made by Kate Connolly; seconded by Roelof
34 Versteeg. Motion was approved with a unanimous vote.
35

36 3. Documents

37
38 David Van Wie distributed a clean version of the Operating Procedures with amendments
39 approved at the previous meeting. He also distributed a new RAB roster of contact information
40 and a copy of the CERCLA process flowchart from the presentation during the previous
41 (February 2014) meeting.
42

43 4. Community Relations Plan revisions

44
45 A redline-strikeout version of amendments to the February 2013 Community Relations Plan was
46 sent to RAB members earlier in the week for review. Mr. Van Wie provided hard copies of the
47 amended version, and summarized the changes and general reasoning for some of the more
48 extensive revisions.
49

50 Kristin McDevitt suggested revisions to the land use description of the CRREL area to include
51 the residences. She also noted a name change for the Hanover Conservancy. Several people

1 noted some confusion about the number of wells in Norwich that were sampled and where TCE
2 was detected.

3
4 A discussion ensued regarding older data/findings and reliability of data in older reports (e.g.
5 lack of data validation). We will discuss some of the actual data at the next meeting.

6
7 Jonathan Brush reminded us that he would like to put links to the Environmental Restoration
8 Program information on the SAU 70/Middle School website. Mr. Van Wie and Mr. Armbrust
9 noted that website updates are ready for uploading, and more information/documents will be
10 added. Links will be provided to Mr. Brush to ensure linking to the most current information,
11 rather than have two versions to maintain.

12
13 Ms. McDevitt informed the Board that the Hanover Planning Board is planning an event around
14 the week of June 4, 2014 to hear information about the area around ERDC-CRREL. There will
15 be time for residents to share information in a charrette format, and for the following
16 organizations to make brief presentations: Kendall, Dartmouth College, Dartmouth Printing and
17 ERDC-CRREL. To supplement the brief presentation, the Board suggested ideas for providing
18 information via the Valley News, and also a second Open House for the community shortly
19 following the Planning Board session.

20
21 Mr. Van Wie noted asked that a public notice was published announcing that the Administrative
22 Record (AR) will no longer be housed at the Kilton Library in West Lebanon after April 1, 2014
23 and is now available at the Howe Library in Hanover.

24 25 5. Overview of Risk Assessment Process

26
27 Larry Cain of USACE-NAE made a presentation on Human Health Risk Assessment, with
28 specific explanation of issues and approaches used for assessing risk related to TCE vapor
29 intrusion on and around the ERDC-CRREL facility. Topics included:

- 30
31
- 32 • Purpose of Risk Assessment
 - 33 • Non-cancer vs cancer risks
 - 34 • Data Collection & Evaluation
 - 35 Conceptual Site Model
 - 36 Source/Pathway/Receptor
 - 37 • Exposure Assessment
 - 38 Frequency/duration/dose estimate
 - 39 Vapor intrusion/subslab/indoor air
 - 40 • Toxicity Assessment
 - 41 Lab tests vs field observation
 - 42 Confounding factors
 - 43 Animal studies/adjusting to humans
 - 44 Toxicity values/reference dose/cancer slope factor
 - 45 Non-cancer and cancer endpoints for TCE inhalation exposure
 - 46 • Risk Characterization
 - 47 Hazard quotient/Hazard index: dose vs toxicity
 - 48 Response needed?
 - 49 Risk communication
 - 50 Uncertainties
 - Risk Findings

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- 1 Baseline risk assessment
- 2 Interim risk assessments
- 3 Interim cleanup goals: driven by non-cancer effects
- 4 "Back calculate" the appropriate concentrations
- 5 Consider final remediation goals
- 6
- 7

8 6. Overview of work plans for on-going investigations

9
10 Due to time limits, this topic was postponed until the next meeting.

11
12 7. Next Meeting

13
14 The next meeting is scheduled for **Wednesday, May 21 at 4:00 to 6:00 pm** in the same
15 location (Middle School Library). The agenda for the next meeting will include:

- 16 • Overview of work plans for additional investigations
- 17 • How to interpret sampling results
- 18 • Review of available data

19
20 The following meeting will be June 25, and will include a site walk of the CRREL facility and
21 study areas, time to be determined.

22
23 8. Comments and questions from the public

24
25 No members of the public attended the meeting.

26
27 9. Meeting adjourned at 6:10 pm.