




Request review or approval of Draft Army Approved Minutes (UNCLASSIFIED)

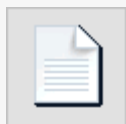
Monday, September 13, 2010 1:10 PM

From: "Gabel, Ted Mr CIV USA IMCOM" <ted.gabel@us.army.mil>

To: Roach.Bill@epamail.epa.gov, "Greg Zalaskus" <Greg.Zalaskus@dep.state.nj.us>, "Jim Kealy" <Jim.Kealy@dep.state.nj.us>, "Joe Marchesani" <Joe.Marchesani@dep.state.nj.us>, "Tracy Grabiak" <Tracy.Grabiak@dep.state.nj.us>

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 1 File (43KB)



Draft Meetir

Classification: UNCLASSIFIED

Caveats: NONE

Bill/Greg, Jim, Joe and Tracy:

Minutes from the meeting of 2 September Please review so it will be part of the record. Let us know if we forgot or edits are required.

Bill: Please get this to your risk assessor if required.

Thanks.

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"We are the Army's Home in Northern New Jersey"

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Caveats: NONE

**Picatinny Arsenal  
EPA/DEP Team Meeting  
September 2, 2010**

**Draft Army-approved Meeting Minutes**

**Attendees:** Francis Coulters – USAEC  
Tom Crone – ARCADIS  
Nancy Flaherty – USACE  
Ted Gabel - Picatinny  
Jim Kealy - NJDEP  
Tim Llewellyn – ARCADIS  
Joe Marchesani – NJDEP  
William Roach – USEPA  
Emily Schiffmacher – USACE  
Tracy Grabiak – NJDEP

**Via Phone:** Nadine Weinberg – ARCADIS  
Chuck Nace - USEPA

**Agenda Items: The following sites were discussed and decisions reached**

**PICA 013 (Site 78):**

- Vapor Intrusion (VI) at Building 91
  - Ms. Weinberg summarized the actions taken thus far to evaluate if a potential VI problem exists at PICA 013 (Site 78). These actions and subsequent findings are summarized in the VI Memo, prepared by ARCADIS. Ms. Weinberg summarized the memo, including the sampling methodology, the data set, and the three lines of evidence presented.
    - Mr. Gabel also pointed out that he recalled vapor intrusion calculations being performed at the remedial investigation (RI) stage. He recalled they demonstrated an incomplete pathway. Mr. Gabel after making the statement showed Mr. Kealy the 3<sup>rd</sup> paragraph of Section 2.8.1 of the draft ROD (page 2-7) that stated that “a supplemental risk assessment was performed subsequent to the sodium lactate study to re-evaluate the exposure risk for an on-site worker associated with exposure to the then (2007) current concentrations of VC in the gw via ingestion, dermal and **inhalation of indoor air.**”
  - Ms. Grabiak stated concerns stem from the comments at the public meeting for this site. It would seem that additional data (groundwater or sub-slab) would help to alleviate these concerns for both the building occupants and the NJDEP.
  - Ms. Weinberg pointed out that following NJDEP guidance and using the revised screening level (which incorporates the newer USEPA toxicity value) there is no reason to pursue sub-slab sampling at this site. Ms. Grabiak agreed, but stated the issue of public concern voiced at the public meeting is still concerning.
  - Regarding additional sampling and the USEPA review of the VI Memo, Mr. Nace referenced USEPA VI guidance (2002) which defaults to the MCL as a screening value to be applied within the 100 feet buffer area around the building. However, Region II policy (since 2002) includes using a guidance number of 0.25 ppb, although this has not been publicly released. Ms. Weinberg requested clarification on the origin of this guidance and its applicability given this policy is not public knowledge.
    - Upon further review of the guidance, Mr. Nace referenced “page 31 secondary screening question #2, (a.k.a. the 50X rule)” which increases the screening level from 0.25 ppb to 12.5 ppb and would effectively screen out this site as the 12.5 ppb contour is well outside the 100 feet buffer.
    - In conclusion, Mr. Nace stated USEPA would approve of screening out the site, yet he is also concerned with public comment and lack of sub-slab data.

- Following a group discussion, there was a consensus that based on available groundwater data, the VI pathway would typically not be pursued at this site as it would be screened out using both USEPA and NJDEP guidance. However, given the age of the data (ten years old), the lack of a source area, and public concern, NJDEP requested additional sampling. The group agreed that three sub-slab samples should be collected.
  - Sampling will include one sample near the former underground storage tanks (USTs), one near the machine shop, and one at the other end of the building. Final locations will be biased toward occupancy. No ambient air sample will be collected.
    - NJDEP has a specific analyte list with specific procedures and approved laboratory, which is slightly different than USEPA's analyte list and laboratory requirements
    - The group agreed to use the NJDEP analyte list and NJDEP certified laboratory. Samples will be collected over a 24 hour period and a 6 liter bottle will be used (although this is ultimately dependent on detection limits).
  - The group agreed that if sub-slab data indicates no there is no VI pathway, then the Site is considered remedy in place (RIP) and CERCLA documents (ROD and Remedial Design) can be finalized. However, if the sub-slab data indicates a VI problem may exist, the final remedy will need to be revised to account for VI.
- In preparation of briefing the Building 91 occupants, Mr. Gabel requested information from USEPA outlining why USEPA screening levels differ between programs (OSHA and CERCLA). USEPA stated that the timing of the request (during the close of the fiscal year) would make it difficult to provide this but provided the following information at the meeting.
  - The difference between OSHA and CERCLA screening levels is chemical specific. The majority of OSHA values date to 1960, assume personal protective equipment (PPE) will be worn, and neglect current toxicity values. The CERCLA program is trying to update screening levels using current toxicity values and the assumption that no PPE is worn. The two different screening values (OSHA and CERCLA) represent a difference of  $1 \times 10^{-2}$  versus  $1 \times 10^{-6}$  cancer risk.
- The group agreed that the Draft Final ROD can be revised to remove the Industrial Hygiene level air sampling conducted inside the building by the Army, and focus on the CERCLA studies including provision of the findings of the sub-slab sampling.
- Remedial Design (RD)
  - Mr. Llewellyn summarized the RD for monitored natural attenuation (MNA). The remedial action is planned for September 2010. He highlighted the findings of a recent site inspection, during which two marsh piezometers in Green Pond Brook could not be located and the other piezometer is currently in the middle Green Pond Brook (GPB) and difficult to access safely.
    - After reviewing the rest of the MNA network, NJDEP agreed with removing the three piezometers from the MNA network. The group concluded that surface water samples will still demonstrate that the receptor (GPB) is protected.
    - NJDEP requested that the remaining piezometer be removed as it will no longer be needed. ARCADIS agreed.
    - USEPA deferred to NJDEP's assessment and concurred.

**PICA 001/011/057 – Discussion of ARAR Language:**

- Mr. Llewellyn summarized Army's position, proposed language, and proposed agreements (which include agreements to all USEPA and NJDEP requests regarding ARAR language and remedy selection); and asked if all the sites may now move forward.

- Mr. Roach informed the group that the current USEPA clarifications and guidance on ARAR language and remedy selection provided from Walter Mugdan (Director of the Emergency and Remedial Response Division at EPA Region 2) on 19 May 2010 is no longer valid. Document approvals (as recently as August 2010) are being reevaluated which includes the signing of the Group 1 ROD.
  - EPA stated that once ARARs are recognized then remedies selected must remove or cover exceedences of these ARARs in soil (the New Jersey Soil Remediation Standards SRS)).
  - ARCADIS pointed out that under CERCLA the SRS should not be recognized as ARARs as there is no unacceptable risk for the current and reasonably anticipated use (industrial) at these sites. The only reason the SRS are stated to be ARARs was as a result of negotiations with NJDEP and USEPA over the past year in order to break a deadlock on language within the Decision Documents. It was noted that USEPA had indicated on several occasions previously, including in writing in the 19 May letter, that calling the SRS ARARs as part of a negotiated settlement would not lead to remedy changes. ARCADIS further pointed out that the remedies proposed had been accepted by all parties in the past and go substantially beyond simple land-use controls with several sites proposed for removal actions or soil cover. The Army team expressed frustration at the continued inability to reach a negotiated settlement on these sites despite conceding to a series of requests from both USEPA and NJDEP over the past several years.
  - Mr. Roach briefed the group that USEPA and NJDEP upper management are scheduling discussions. USEPA and the Army (USAEC) are also trying to schedule a meeting to determine the application of Land Use Controls.
  - USEPA has been told by NJDEP management that NJDEP will not be concurring on these remedies, therefore no construction complete could be achieved.
    - After reviewing the Army's current position, proposed language, and proposed remedies which incorporated hotspot removals and engineering controls that NJDEP requested in December 2009, Mr. Kealy was going to discuss NJDEP's position with his management in hopes of reversing NJDEP's non-concurrence position.
- The group agreed that ARCADIS can email out the meeting slides for use at regulator management meetings. These slides present the Army's position, proposed ARAR language, and proposed remedies.
- It was agreed that USEPA needs to provide a final position on ARARs and how to apply LUCs for there to be any further progress at these sites.
- ARCADIS and the Army will discuss proceeding with public noticing the 25 Site Group PP, regardless of USEPA's disapproval of the language, and possibly, the remedies.

#### **PICA 057 – Lakes Feasibility Study:**

- Per previous USEPA comments, the resubmitted submitted Feasibility Study (FS) will recommend NFA as the remedy for the EOD Pond and Lake Denmark. Additionally, it was noted that on further review NFA would also be appropriate at Lake Picatinny following removal of sediments at Site 40. These revisions are based on the lack of unacceptable risk for unrestricted use (recreational) at Picatinny Lake after sediment removal. This approach for Picatinny Lake is consistent with USEPA comments on the NFA remedy for the EOD Pond and Lake Denmark.
  - NJDEP would likely concur on revision and remedy. Mr. Kealy plans to review document in the next few weeks.
  - USEPA agreed with resubmitting the document as ARCADIS proposes.

#### **PICA 204 Mid-Valley Groundwater:**

- Mr. Llewellyn summarized the current CSM at Mid-Valley and the field activities completed to date.

- Data indicates that 171MW-12 is a clean, up-gradient well, and 171MW11B, screened at 180 to 200 feet below ground surface provides vertical delineation of the plume. Mr. Marchesani concurred.
- Mr. Marchesani shared his observation that more water was encountered during March drilling than compared to the June drilling event. He hypothesized the flow in fractured zones may vary seasonally and should be accounted for during remedy design.
- Mr. Marchesani asked why both hydrasleeve and PDBs are being used. ARCADIS confirmed this practice is consistent with the procedures used in the past at this site and allows ARCADIS to get data quickly (with the hydrasleeve and local laboratory) and then confirm the data with samples from the PDBs two weeks later.
- After reviewing the proposed pump test, Mr. Marchesani would like to see a pressure transducer added to 171MW-12. ARCADIS agreed.
- Mr. Marchesani pointed out that because the conceptual remedy re-injects into fractured rock and re-circulates, the design is technically a closed loop system and there is some additional flexibility to re-inject TCE above 1 ug/L. ARCADIS will review this and incorporate into the RD if appropriate.
- Mr. Gabel questioned if the regulators foresee a problem with VI at this site, similar to the issue that was raised during the ROD preparation at PICA 013 (Site 78). Without a CSM, USEPA and NJDEP were unable to comment. ARCADIS will include VI in the new CSM.

### **PICA 008 (Group 3) Groundwater:**

- Mr. Llewellyn summarized remedy activities completed to date and summarized the planned injection event.
- The group concurred on the planned remedy and the injection schedule for the EVO.
- Mr. Llewellyn asked USEPA and NJDEP if there is a mechanism which would allow for the RD and Interim Remedial Action Report (IRAR) to be submitted as a single document.
  - USEPA requested a RD be submitted separate from the IRAR and Arcadis concurred.

### **Area D GW (PICA 076) – Discussion of Pump and Treat System Decommissioning:**

- Mr. Llewellyn summarized the pump and treat (P&T) decommissioning process to date.
- Mr. Llewellyn asked the group for guidance on closing the discharge and allocation permit equivalence which previously governed operations of the P&T system.
  - Mr. Marchesani suggested preparing a letter stating that the Army's wishes to cease discharge.
  - Mr. Gabel provided the permit to NJDEP and Mr. Marchesani offered to contact the appropriate group at NJDEP for guidance.
  - Note that following the meeting Mr Marchesani informed the Army that the permit cannot be closed until the pumps are pulled from the wells and photographic evidence of the action was provided to NJDEP. ARCADIS agreed to evaluate pulling these pumps and will discuss closing out the permit with the Army.

### **PICA 079 (Group 1) Remedial Design/Action:**

- Mr. Crone presented the status of the ROD and RD for the site.
- Mr. Roach stated that he was unsure if the PICA 079 (Group 1) ROD would be signed, or if signature would be tied the emerging USEPA guidance on ARAR language and LUC application.
- Arcadis noted this development.
- Mr. Crone then reviewed the NJDEP and USEAP comments and approved responses on the RD. All responses were agreed to and the RD can be finalized. If USEPA provides additional comments on the ROD a "Final, Revision 1" RD will be produced at that time.
- Mr Marchesani noted that if the MNA data over the first year did not indicate contaminant concentration reduction then an injection system may be requested. Arcadis noted that if a

- Remedial Action (soil excavation and off-site disposal with LUCs) is underway and should be completed September 10, 2010.

**5-Year Review:**

- Mr. Crone presented the proposed schedule and format of the 5 year review. Both the schedule and the format were acceptable to USEPA. The accepted format will present Arsenal-wide information in the first three sections (Introduction, Site Chronology, and Site Background), other Five-Year Review required sections (Remedial Actions, Progress Since Last Review, Document Review, Data Review and Evaluation, Summary of Technical Assessment, Issues, and Recommendations) will be grouped by specific site, and the document will conclude with three Arsenal-wide sections (Protectiveness Statement, Five-Year Review Process, and Next Five-Year Review).

**Brief Updates on all Other Sites**

- Mr. Llewellyn and Mr. Crone provided a brief summary of the progress several other remaining PBC sites. No new data was presented.

**IAG Schedule and Soil Management**

- Mr. Gabel provided a hard copy of the IAG schedule that had been provided in August and asked that it be reviewed.
- Mr. Gabel discussed soils management issues particularly with Mr. Kealy including the following:
  - GIS Data base of excavated excess soils is being developed by Chugach
  - Recent soil piles data show incidental level of NJDEP exceedances. These soils are now 'stored' at the heliport

**Next Meeting:**

- Next RAB meeting is on October 7, 2010 at 6:30 PM at the Hilton Garden Inn, Rockaway, NJ
- The date of the next technical meeting was not discussed.

<b>Action Items:Action</b>	<b>Responsible Individual(s)</b>	<b>Due Date</b>
ARCADIS will collect three sub-slab samples, work plan will be submitted first	Llewellyn/Weinberg	ASAP
USEPA to provide information in writing to Mr. Gabel describe difference b/w CERCLA and OSHA.	Nace/Roach	Completed – verbally at meeting via phone and via the approval of these minutes
NJDEP will discuss current status and remedial strategies with management	Kealy	
ARCADIS will submit slides to USEPA and NJDEP for use in management meetings	Llewellyn	9/9/10
Mr. Marchesani will send email to NJDEP obtain guidance on closing out water allocation and discharge permits	Marchesani	Guidance provided via email on 9/3/10