

Joint Base McGuire-Dix-Lakehurst (JB MDL)  
Restoration Advisory Board (RAB) Final Meeting Minutes  
Meeting No. 57 – 19 July 2017

SUBJECT: Restoration Advisory Board (RAB) Meeting No. 57 – Meeting Minutes

- 1) Place: Edward Holloway Senior Citizen Community Center, 5 Cookstown Browns Mills Road, Cookstown, New Jersey
- 2) Date/Time: Wednesday, 19 July 2017; 6:30 PM
- 3) Co-Chairs: Mr. Christopher Archer, Deputy Base Civil Engineer, 87th CEG, JB MDL  
Mr. Michael Tamn, Resident, Southampton Township, New Jersey

4) RAB Members Attendees:

Mr. Frank Storm	RAB Member
Mr. Rich Bizub	RAB Member, Pineland Preservation Alliance
Mr. Tom Besselman	RAB Member
Ms. Branwen Ellis	RAB Member, Pinelands Commission
Ms. Robyn Henderek	US Environmental Protection Agency, Region II (EPA)
Ms. Carla Struble	US Environmental Protection Agency, Region II (EPA)
Ms. Donna Gaffigan	NJ Department of Environmental Protection (NJDEP)
Mr. Haiyesh Shah	NJ Department of Environmental Protection (NJDEP)
Mr. Curtis Frye	JB MDL, AFCEC/CZO, Chief, Environmental Restoration Program
Mr. Michael Figura	JB MDL, AFCEC/CZO, Environmental Restoration Program
Mr. King Mak	JB MDL, AFCEC/CZO, Environmental Restoration Program
Ms. Nicole Brestle	JB MDL, AFCEC/CZO, Environmental Restoration Program
Mr. Jim Richman	JB MDL, AFCEC/CZO, Environmental Restoration Program

Other Attendees:

Mr. Joseph Rhyner	JB MDL, 787 CES/CEIE, Chief, Environmental Element
Mr. Nelson Santiago	Ocean County Health Department
Mr. Alex Carnivale	Burlington County
Mr. Carl Danganan	JB MDL
Mr. Tim Llewellyn	Arcadis
Ms. Gretchen Tabano	Bay West
Ms. Judy Hackett	Pennoni
Ms. Katrina Harris	Bridge Consulting Corp./Arcadis
Mr. Pat Miller	Resident
Ms. Jodi Miller	Resident

5) Handouts

- JB MDL Restoration Advisory Board, Meeting No. 57, 19 July 2017, Agenda
- JB MDL Restoration Advisory Board, Meeting No. 57, 19 July 2017, Presentation Slides
- JB MDL, List of Documents Provided to Mr. Tamn as of 19 July 2017
- Update on Environmental Assessment, JB MDL Easement to NJ Natural Gas for Southern Reliability Link

6) Call to Order:

The meeting was called to order by Mr. Christopher Archer, Deputy Base Civil Engineer, 87th Civil Engineer Group, JB MDL. Mr. Archer announced Col. McClure would be transferring soon for a new position in San Antonio, and starting the following week will be replaced by Col. Altwies. Mr. Archer also shared the news that the KC46 will be coming to JB MDL over the next three years; he advised there will be about \$150 million in construction to replace the KC10. Mr. Joseph Rhyner advised an Environmental Impact Statement will be prepared for the KC46 project. Mr. Archer announced Mr. Rhyner will be leaving mid-August for a new position with the Navy in Philadelphia. He thanked Mr. Rhyner for his years of service and wished him well in his new position.

7) Minutes of Previous Meeting and Review of Agenda Items:

Mr. Michael Tamn asked for any comments on the minutes from the 16 March 2017 RAB meeting. A motion was made, seconded, and passed to approve the minutes.

Mr. Curt Frye reminded all that the meeting was being recorded for purposes of preparing meeting minutes.

Mr. Frye reviewed action items from the last meeting. He advised updated fact sheets for Operable Units 1 and 3, both landfill Operable Units at McGuire, have been included in the annual draft Site Management Plan Update which was sent to the regulators for review in mid-June. Mr. Frye noted Proposed Plans are scheduled for both Operable Units in the fall and winter, and more detailed fact sheets will be available at the Proposed Plan public meetings.

Mr. Frye addressed Mr. Doug Pocze's suggestion regarding posting updated perfluorinated chemicals (PFC) sampling tables on the RAB web site. Mr. Frye advised there is a JB MDL PFC web site where the off-base sampling information is updated regularly, and this site is linked to the JB MDL RAB web site. He noted he had a copy in this evening's slides, and he invited anyone with questions about the sampling to contact him.

8) Update on PFC Off-Base Sampling:

Mr. Frye said sampling of off-base private drinking water wells for PFOS and PFOA continues in select areas around the perimeter of the base, based on the findings of the Site Inspection, which found 21 areas across the base had PFC releases from the use of aqueous film forming foam (AFFF). He reminded the RAB a public meeting had been held at the middle school in Jackson Township, and there is little news to report since that meeting. He advised at the time of the meeting in February 2017 three exceedances of the EPA health advisory level had been found; no additional exceedances have been found since February.

Mr. Frye said the draft Site Inspection Report is being developed and will be sent to the regulators within the next two weeks.

Mr. Frye displayed a chart showing the off-base sampling. He explained the first column, PFC Areas, are numbered for the on-base sites which led to the off-base sampling. He stated packets had been distributed to 264 property owners, with 169 responses received, and samples collected at all but 5 properties; those 5 samples will be collected very soon. Mr. Frye said another letter has been prepared to the approximately 100 property owners who have not yet responded and will be distributed the following week. He stated in some cases it will be the fourth attempt to contact the property owners; the goal is to get as close to 100% responses as possible.

Mr. Bizub asked about the status of Wells 5 and 9 on Lakehurst where PFCs were detected. Mr. Frye stated the wells had been taken off-line in December when the exceedances of the EPA health advisory

were found. He said a long-term solution is being developed which may be either a new deep well to replace those wells and serve as a backup to the main well at Lakehurst or installation of a carbon treatment system for those wells.

Mr. Tamn referred to recent newspaper articles which indicate the Air Force had knowledge of the contamination for many years; however, the RAB did not receive information until recently. Mr. Frye responded that the direction came from Air Force headquarters to begin sampling in 2015, and JB MDL responded to that direction. He stated the military used AFFF to meet the specific purpose of saving lives. He also noted that the military responds to the regulatory environment so unless there are regulatory standards in place, it is difficult to take action.

Mr. Tom Besselman asked about wells in Pemberton Township. Mr. Frye responded that Area 14 is the closest to Pemberton Township. He said 44 packages were distributed to owners with private drinking water wells, and 26 responses were received. He noted some responses were received from property owners who turned out to be on municipal water.

9) Dix Basewide Five-Year Review:

Mr. Frye announced that a Dix Basewide Five Year Review of the Dix Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) sites is underway. He said CERCLA requires a review of remedies every five years at sites where there is not unrestricted use. He advised a Five-Year review of the Dix landfill site, which is site LF010, was completed in 2015; however, LF010 will be included in this Basewide review, even though it has been less than five years since the previous review, so all the Dix sites will then be on the same cycle. Mr. Frye noted a public notice had been in the newspapers in May so the public would be aware the five-year review would be taking place.

Mr. Frye showed a map of the Dix CERCLA and petroleum sites, and noted only the CERCLA sites would be included in the Five-Year review. He showed a table of the CERCLA sites. He mentioned the largest is the Sanitary Landfill (Site LF010) and the newest is the New Egypt Armory (Site TU026).

Mr. Frye displayed a list of the components of the Five-Year review, noting interviews will be done by the contractor (EA Engineering), including RAB members and stakeholders, to ask about awareness and concerns.

Mr. Frye showed a list of the report's contents. He noted the report will determine if all the remedies are still protective of human health and the environment based on current conditions at the site and monitoring performed over the last few years.

Mr. Frye reviewed the project schedule and noted physical site inspections will start the following week, along with the interview process. He stated the final report is due in May 2018, and there will be a public notice to let the community know when the report is available.

10) Dix Area and Lakehurst Area Small Arms Range Removal Actions:

Ms. Gretchen Tabano of Bay West discussed the recently completed soil removal actions for soil contaminated primarily with lead and a few other metals and PAHs at the following sites:

- Former Small Arms Range (Dix, Site SR002)
- Former Trap Range (Lakehurst, Site ZZ005)
- Former Skeet, Rifle and Pistol Range (Lakehurst, Site ZZ006)

Ms. Tabano displayed a map showing the location of the sites.

Ms. Tabano reviewed the project components and timeline:

- Delineation of soils completed in 2015 and 2016;
- Environmental Engineering/Cost Analysis (EE/CA) prepared to evaluate technologies;
- Soil stabilization was implemented as part of the removal action, except for the Skeet Range at Lakehurst where soil washing had been performed in the past;
- Sites were remediated to New Jersey residential standards to allow unrestricted use of these sites;
- Confirmation samples were collected after the removals to verify cleanup goals were met;
- Soil was transported to the Burlington County Soil Recycling Center;
- Excavated areas were backfilled;
- New Jersey Department of Environmental Protection (NJDEP) approved the topsoil which came from a local vendor; 18 samples were taken to verify the topsoil was clean; and
- Covered areas were seeded with rye grass to have vegetation established quickly and to have erosion control.

Mr. Tamn asked about the Burlington County Soil Recycling Center. Ms. Tabano responded it is a landfill with an engineered cap where the soil can be re-used as part of the landfill cover. She noted the remedy is a “green” alternative and part of JB MDL’s recycling program.

Ms. Tabano showed pictures of the removal actions being conducted. Mr. Frye asked about the average depth of the excavations, and Ms. Tabano responded about two feet at Lakehurst and about three and a half feet at Dix.

Ms. Tabano explained a proprietary agent, EcoBond, was applied to the soils, and after sitting for 24 hours, the soils were extensively sampled and deemed non-hazardous. Ms. Robyn Henderek asked about the survivability of the agent, and Ms. Tabano said it is infinite.

Ms. Tabano showed a chart of soil removed by truckload and tonnage. She advised 834 truckloads of soil were removed from March through the end of June, amounting to almost 23,000 tons.

Ms. Tabano said the sampling results are still being reviewed, but all contaminants are now below screening levels. She displayed a chart showing sample results compared to cleanup goals.

#### 11) Remedial Investigation/Removal Action at Lakehurst Proving Grounds, Site ZZ0003

Mr. Michael Figura, Lakehurst and Military Munitions Response Program Project Manager, displayed a map of Lakehurst showing the target areas. He explained there were two firing points for the Lakehurst Proving Grounds, and numerous target areas. He stated the range was used in the early 1900s for testing high explosive and chemical munitions by various non-military and military groups, and in the 1940s during World War II for testing of high explosive munitions.

Mr. Figura explained a Site Inspection was conducted in 2012 and identified the target areas shown on the map; he stated there potentially could be munitions in other areas of the range, but the target areas were identified as areas which most probably contained munitions. He advised the Remedial Investigation for two target areas was completed in 2016. He explained field work was conducted at two target areas in the Jump Circle to investigate conditions at these areas which are away from the

more active areas of the installation and are not heavily vegetated. He continued explaining that the assumption is that similar conditions exist at the other target areas.

Mr. Figura summarized the field work findings, noting 776 locations were excavated and 37 unexploded ordnance items were found and detonated; he advised most of the items were 75mm projectiles, 37 mm projectiles, and four-inch Stokes mortars. He advised flares were also found that were used to put up a signal and flares used for lighting to mark a location. Mr. Figura stated two chemical munitions were found, one containing mustard and one containing phosgene. He noted the destruction of these two items had been discussed at several previous RAB meetings.

Mr. Figura discussed upcoming plans which include performing a full surface sweep of the target areas to ensure no items remain on the surface and to be protective of human health. He advised a magnetometer will be used and vegetation may be moved to see what is present, but no intrusive investigation will occur. He noted the work will include two locations that have been identified as potentially containing significant amounts of explosive or chemical munitions. He advised the two locations will be excavated; the pits are estimated to be four to five feet deep. Mr. Figura said there will be an interim holding facility on-site in the event a chemical munition is found. He stated a detailed work plan will be prepared prior to starting the excavation, and post-excavation soil and groundwater samples will be collected.

Mr. Figura reviewed the project schedule. He said the contract is scheduled for award this fiscal year, and the contractor will present their work plan at a future RAB meeting. He advised the field work is planned for the spring or fall of 2018. Mr. Figura said any sub-surface activity will have full ordnance team support.

## 12) Performance-Based Remediation Contract Update:

Mr. Tim Llewellyn of ARCADIS noted there has been much progress since the last meeting. He said he would be providing an update on field work, documents needed to move sites to remedy, and sites ready for close-out.

Mr. Llewellyn first discussed field activities at McGuire and highlighted the following activities:

- Continued operation of air sparge/soil vapor extraction (AS/SVE) system at TU013. Good recovery of petroleum mass, with about 125 pounds recovered in the last year.
- Installation/operation of a biosparge system at TU023. Installed in the winter of 2016 to address residual mass of jet fuel and began operating in May.
- Planned removal of oil/water separators at OW511 and OW518. Upon removal, the sites can be closed out.
- Planned inspection of former fuel supply line at Pumphouse A, Site TU025. A monitored natural attenuation remedy is in place and good progress is being seen toward remediation standards. A 400-foot section of fuel supply line will be inspected with a remote-control video camera to see if there are any breaches. If clean, the fuel line will be abandoned in place in accordance with state regulations.
- Removal action at former gas station on East Arnold Road, Site TU003. Excavation was completed this spring and about 2,500 tons of material were removed and disposed of off-post as non-hazardous waste. Monitored natural attenuation remedy is in place.
- Site-wide groundwater sampling continues on a quarterly basis at monitored natural

attenuation sites, and contaminants continue to decrease. Results will be reported to NJDEP in the McGuire annual Installation Maintenance and Monitoring (McGuire-IMMR) report.

Mr. Tamn asked how much mass was present at TU023, and Mr. Llewellyn said he would obtain this number. Mr. Tamn asked how long the biosparge system and then monitored natural attenuation will take, and Mr. Llewellyn said he expects the biosparge system to operate up to two years, and monitored natural attenuation would take five to eight years. Ms. Brawen Ellis asked if the system runs 24 hours a day, and Mr. Llewellyn confirmed it does.

Mr. Llewellyn next discussed field activities at Dix and highlighted the following activities:

- Continued operation of AS/SVE systems at Taxi Stand (TU019A), Building 6045 (TU970), and Building 5136 (NW044). Mass recovery continues so systems will continue to be operated.
- Additional sampling planned across Former 0900 Housing Area (NW042) to establish parameters for remedial design. A Proposed Plan will be published for public input in late fall or early winter.

Mr. Llewellyn next discussed field activities at Lakehurst and highlighted the following activities:

- Installation of AS/SVE systems at Former Base Landfill (LF042) and Former Fuel Farm #125 (TT013). Contaminant masses in soils and ground water preventing monitored natural attenuation from achieving goals so systems are being installed to reach remedy goals by 2024. Utility avoidance is a significant component of the field work.
- Installation of a biosparge system at Former Fuel Farm #196 (TT017), similar to LF042 and TT013.

Mr. Llewellyn next discussed the status of documents needed to advance sites to remedy selection. He displayed a chart showing the status of the McGuire sites on the National Priority List and where each site is in the CERCLA process. He highlighted the following recent progress:

- Data from significant 2016 field events has been integrated into Feasibility Studies technical memos for OUs 1 through 8.
- OU-6, OU-7, and OU-8 Remedial Investigation reports have been submitted for EPA review.
- OU-3 Feasibility Study is under EPA review.
- OU-1 and OU-4 Feasibility Studies have been prepared; Air Force comments are being addressed by Arcadis.
- OU-2 Feasibility Study under Air Force review. Scheduled for submission to EPA in October 2017.
- OU-3 Proposed Plan is under EPA review; public meeting planned for late summer/early fall.
- OU-3 Record of Decision is under Air Force review; this is a preliminary document pending the release of the Proposed Plan and receipt of public comments. Anticipate signing in 2017.

Mr. Llewellyn discussed OU-2 in more detail. He noted ten sites are included in this Operable

Unit; the sites vary in complexity. Mr. Llewellyn showed a matrix of each of the sites and current technologies under consideration for each site. He discussed several sites needing active remedies. He reviewed the proposed schedule with a final Feasibility Study planned for February 2018, a final Proposed Plan planned for November 2018, and a signed Record of Decision planned for September 2019.

Mr. Llewellyn gave an update on the BOMARC site. He advised the Feasibility Study has been approved by NJDEP with a Proposed Plan expected to be released for public comment and a public meeting in October or November 2017. He noted the recommended remedy is air sparge/soil vapor extraction. Mr. Llewellyn said a Record of Decision is anticipated for spring 2018, and the remedial action to begin in the winter of 2018.

Mr. Llewellyn next discussed recent progress at Lakehurst. He advised annual and semi-annual sampling reports have been submitted. He referenced his earlier discussion of the system installation underway at TT013, TT017, and LF042; he noted system design is also underway at AT016 with installation planned for late 2017.

Mr. Llewellyn advised that ten (10) sites are projected to achieve No Further Action (NFA) status by the end of the fiscal year. Mr. Llewellyn displayed a list of 16 sites at Dix and McGuire are projected to achieve No Further Action (NFA) status in 2018. Mr. Shah commented that NJDEP is still reviewing the JB MDL Basewide Well Abandonment and Transfer Plan, and Mr. Llewellyn agreed that the work is being performed at risk. Ms. Gaffigan asked about wells which might be needed for the PFC investigation, and Mr. Llewellyn said Arcadis is working with the Air Force to take this possibility into consideration.

Mr. Tamn requested a map for RAB members to be able to see the location of the sites as they are discussed, and Mr. Llewellyn said he will work with the Air Force to develop maps for future meetings.

Ms. Ellis thanked Mr. Llewellyn for a helpful presentation.

Mr. Archer asked how often Site Fact Sheets are updated and whether they are on the web site. Mr. Frye said fact sheets for the McGuire NPL sites are updated in the Site Management Plan once a year and when major changes occur. He said they are not presently on the web site but could be added. He said they are in the RAB handbook.

### 13) Public Comments:

Mr. Tamn invited comments from the RAB members. Mr. Bizub asked about the handout providing an update on the pipeline and if more information is available. Mr. Rhyner said responses to public comments are being prepared. Mr. Bizub asked when and how the public will see the responses, and Mr. Rhyner said there will be a newspaper notice and the response will be on the web site. Mr. Tamn said he would like to see a public meeting about the pipeline with the RAB. Mr. Frye responded that the DoD RAB guidance requires the RAB charter to address only the environmental restoration program, and not all the environmental activities occurring at military installations. Mr. Frye said the portion of the pipeline project that related to the environmental restoration program was discussed at previous RAB meetings.

Mr. Tamn invited comments from members of the public. None were offered.

### 14) Meeting Adjourned:

Mr. Tamn asked for a motion to adjourn the meeting. A motion was made, seconded and unanimously passed to adjourn the meeting at 8:12 PM. The next meeting is tentatively scheduled for Thursday, November 16.