# Joint Base McGuire-Dix-Lakehurst Restoration Advisory Board (RAB) Draft Meeting Minutes Meeting No. 33 – 23 February 2011

SUBJECT: Restoration Advisory Board (RAB) Meeting No. 33 – Meeting Minutes

1) Place: Edward Holloway Senior Citizen Community Center, Cookstown, New Jersey

2) Date/Time: Wednesday, February 23, 2011; 6:30 PM

3) <u>Co-Chairs</u>: Brigadier General (Select) Gina Grosso, Joint Base Commander Mr. Michael Tamn, Resident, Pemberton Township, New Jersey

# 4) Attendees:

Mr. Albert Hopkins
Ms. Theresa Lettman
Mr. Ken Smith
Mr. Curt Frye
Mr. King Mak

Resident, Pemberton Township, RAB Member
Pinelands Preservation Alliance, RAB Member
JB MDL, 87 CES/CEAN, Chief, Environmental Division
JB MDL, 87 CES/CEAN, Environmental Restoration Program Chief
JB MDL, 87 CES/CEAN, Environmental Restoration Program

Mr. King Mak

Ms. Nicole York

Mr. William Lewendoski

Mr. John King

Mr. Mike Figura

JB MDL, 87 CES/CEAN, Environmental Restoration Program

Ms. Patty Odoardo JB MDL, Public Affairs Office

Mr. John Malleck
Mr. Doug Pocze
Mr. Doug Pocze
US Environmental Protection Agency, Region II
US Environmental Protection Agency, Region II
US Environmental Protection Agency, Region II
Mr. Phil Cole
Mr. Haiyesh Shah
US Environmental Protection Agency, Region II
New Jersey Department of Environmental Protection
New Jersey Department of Environmental Protection

Ms. Jennifer Azzarano Burlington County College Mr. Michael Wysong Burlington County College

Mr. Jeff Sagnip Representative for Congressman Christopher Smith

Mr. John O'Rourke
Ms. Leotta Tamn
Mr. Frederick Poli
Mr. Jim Richman
Mr. Robert Steffan
Mr. Gerry Maresca
Resident, Pemberton Township
Shaw Environmental & Infrastructure
Shaw Environmental & Infrastructure
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Shaw Environmental & Infrastructure

# 5) Call to Order:

The meeting was called to order at 1830 by Brigadier General (Select) Grosso who announced she was substituting for Col. Poth as RAB Co-Chair this evening. Mr. John Malleck, EPA introduced Mr. Douglas Pocze, Project Manager, EPA who has replaced Mr. Paul Ingrisano of EPA. Mr. Phil Cole introduced Mr. Haiyesh Shah, who has served as the NJDEP Case Manager for the Dix sites for many

years. Brigadier General (Select) Grosso and Mr. Tamn welcomed Mr. Pocze and Mr. Shah to the JB MDL RAB.

# 6) Minutes of Previous Meeting and Review of Agenda Items:

Mr. Tamn called for approval of the minutes from the 25 August 2010 RAB meeting. A motion was made by Mr. Frank Storm, seconded by Ms. Theresa Lettman, and the minutes were approved.

## 7) Lakehurst Five Year Review:

Mr. Mike Figura, Restoration Project Manager, 87th CES/CEAN

Mr. Figura presented the results of a basewide vapor intrusion investigation conducted at Lakehurst. Vapor intrusion (VI) is a process by which chemicals in soil or groundwater can migrate into buildings located above a contaminated site. A VI investigation was recommended in the 2006 Five-Year Review for Lakehurst. Mr. Figura explained that the initial VI investigation was conducted in 2007 and included samples of the sub-slab areas under 5 selected buildings. Vapors in the soil below three of the five buildings had detections that were above screening levels. These three buildings, Hangar 1, Building 123 (base gym) and Building 372 (a maintenance building located at the recovery end of the test tracks) exhibited exceedences of all or some of the following: benzene, enthylbenzene, PCE, TCE, toluene, acetone, methylene chloride, hexane and carbon tetrachloride. Therefore, as part of the 2010 VI investigation, confirmatory sub-slab, ambient air and indoor air samples were collected at each of the three buildings. The results are as follows:

- Hangar 1: The indoor air samples had exceedences of trimethylebenzene, chloroform and/or methylene chloride. Please note, the interior walls were recently painted and trimethylbenzene is an ingredient of the paint. Additionally, chloroform and methylene chloride were detected in the ambient air sample and are common laboratory contaminants. The compounds detected in in-door air were not detected in the sub-slab vapor sample.
- Building 123 (base gym): Benzene was detected in the storage room indoor air sample
  (gasoline is stored there which contains benzene). Chloroform and methylene chloride were
  detected in an indoor air sample. Again, chloroform and methylene chloride were detected in
  the ambient air sample and are common laboratory contaminants. The compounds detected in
  in-door air were not detected in the sub-slab vapor sample.
- Building 372: Benzene was detected in the indoor air sample. Gasoline is also stored in this area. The compounds detected in in-door air were not detected in the sub-slab vapor sample.

Mr. Figura explained that the draft report has been submitted for regulatory review. The conclusions of this report indicate that the 2010 sub-slab results are consistent with the 2007 results; the chemicals in indoor air correspond with the material stored within the sample location and/or are laboratory contaminants, and the levels detected in indoor air are well below the OSHA permissible exposure levels. Therefore, vapor intrusion is not an issue at these buildings and no further action is necessary.

Mr. Tamn inquired about the depth of the sub-slab vapor sampling points. Mr. Figura explained that the sub-slab samples are taken just below the floor slab.

# 8) Update on McGuire Operable Units 1,2,3,4, 5:

Mr. Fred Poli, Project Manager, Shaw Environmental & Infrastructure, Inc.

Mr. Poli gave a presentation on the current status and the upcoming field activities for McGuire CERCLA Operable Units (OU) 1, 2, 3, 4, and 5. An acronym list was made available with handout packets to provide definitions of the many acronyms used during his presentation. Mr. Poli stated that since the November RAB meeting, Shaw has been actively working in the field, and as a result much progress has been made. He explained that the Draft Final Remedial Investigation Work Plans were submitted for OU-1, OU-3, OU-4 and OU-5 (OU-2 RI Work Plan had been submitted previously). Mr. Poli gave a thorough presentation on upcoming activities at each of the OU's and their associated sites. To summarize:

OU-1: A non-time critical removal action (NTCRA) is planned for site ST-07. This removal
action will address surface soil that is contaminated with PCBs due to the past practice of storing
out of service transformers in the DRMO storage yard. Fieldwork for this project is scheduled to
be completed in the summer of 2011. The Draft RI report for OU-1 is expected in September
2011.

Mr. Pocze inquired about the groundwater flow near OU-1 site LF-03. Mr. Poli explained that aquifer pump tests are scheduled to confirm groundwater flow.

Mr. Pozce inquired about the distance between the soil samples collected at OU-1 site ST-07. Mr. Poli and Mr. Richman explained that the samples collected were approximately 40-50 feet apart.

OU-2: Additional sampling and/or plume delineation is scheduled for sites SS-34, SS-35 and SS-36. A time critical removal action (TCRA) is planned at site SS-36 by late summer/early fall of 2011. The Draft RI report is expected in September 2011.

Mr. Pocze inquired as to whether the number of samples for site SS-36 had been predetermined. Mr. Poli responded by stating that some sampling areas have already been decided and that the removal of the manhole and pit outside of the building is also planned. Any type of excavation inside of the building will be complicated. Mr. Poli explained that this will be a removal action, not a final action for the site.

- OU-3: Additional surface water and sediment sampling is scheduled for South Run. Additional
  tests pits are scheduled for sites LF-02 and LF-19. A TCRA is being considered for site WP-21.
  All fieldwork is expected to be completed in the late summer/early fall of 2011. The Draft
  Remedial Investigation report is planned for the fall 2011.
- OU-4: Additional monitoring well installation and aquifer pump tests are scheduled for site ST-09. Fieldwork is expected to be completed in the late spring/summer of 2011. The Draft Remedial Investigation report is expected in September 2011.

Ms. Lettman asked about the locations of samples collected at South Run. Mr. Poli explained that, at the adjacent Site ST-09, Shaw has sampled at ten agreed upon locations, and that TCE was a contaminant of concern. He further stated that TCE is not considered to be associated with Site ST-09. Mr. Frye explained that another contractor will be investigating this as part of an upcoming Stormwater Investigation, which will be conducted in conjunction with the Basewide Background Study.

Ms. Lettman asked what area the samples were taken from. Mr. Poli responded that the samples covered the area from the culvert near Building 2101 (Heat Plant) to McGuire Boulevard.

Mr. Pocze asked if South Run was a gaining stream. Mr. Richman responded that it is in the Pinelands area and considered a gaining stream.

Mr. Pocze asked what the depth to groundwater was in the area and what the general flow direction was. Mr. Frye explained that groundwater generally flows parallel to the stream. Mr. Richman stated that screens will be installed to determine depth to groundwater.

 OU-5: Additional soil borings and possibly a Vapor Intrusion (VI) investigation are planned at site SS-24. Monitoring well installations are planned at site SS-26. Surface water and sediment sampling is planned at South Run. A NTCRA is planned at sites SS-25 and SS-26 during the summer of 2011.

Mr. Pocze inquired about the submittal date for the NTCRA. Mr. Poli said that a memo will be submitted to the EPA within the next month.

- BOMARC: Soil removal at sites WP-05 and ST-15 is planned for the summer of 2011.
- 9) <u>Update on the Environmental Security Technology Certification Program (ESTCP) Pilot Study for Solar Powered Remediation:</u>

Dr. Robert Steffan, Director, Biotechnology Development and Applications, Shaw Environmental, Inc.

Dr. Steffan presented a detailed update of the progress of the Pilot Study to date. He explained that the Draft Demonstration Plan is expected by mid-March 2011, and the System Design/Procurement is planned for April/May 2011. Based on this, the system installation is planned for June 2011 and system start up is scheduled for July 2011. Tracer testing will be conducted in July/August 2011 and performance monitoring will begin in September 2011.

#### 10) Action Items:

 Mr. Tamn requested assistance with recruiting new members to the Restoration Advisory Board.

# 11) Meeting Adjourned:

Mr. Michael Tamn, RAB Co-Chair

The meeting was adjourned at 2000.

### 87th Air Base Wing



### Michael Figura

Restoration Program Manager 87 CES/CEAN

Lakehurst Vapor Intrusion Investigation

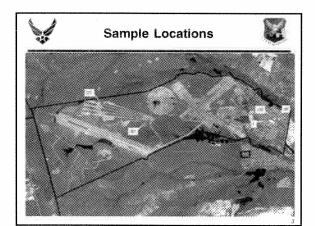


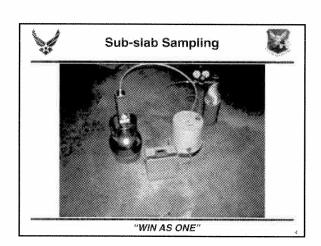
#### Vapor Intrusion



- What is Vapor Intrusion?
- Recommended in 2006 Five-Year Review
- Sub-slab vapor sampling conducted in 2007
- Sub-slab and in-door air sampling conducted in 2010 under contract with URS Corp.

"WIN AS ONE"







### 2007 Sub-slab Sampling Results



- No detections above screening levels in Bidgs. 60 (Credit Union) and 351 (maintenance building, launch end of test tracks)
- Detections above screening levels:
  - Hangar 1: TCE, benzene and ethylbenzene
  - Building 123 (base gym): PCE, benzene, ethylbenzene, toluene, acetone, methylene chloride, and carbon tetrachloride
  - Building 372 (maintenance building, recovery end of test tracks): TCE, ethylbenzene, and hexane

"WIN AS ONE"

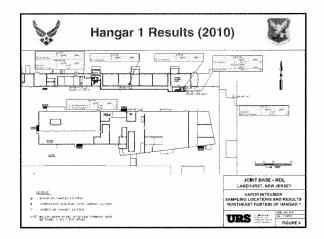


### 2007 Recommendations



- At each location where sub-slab sampling results were detected above screening levels, an indoor air sample should be collected to assess actual indoor air quality
- At the location of the highest 2007 sub-slab levels, a confirmatory sub-slab vapor sample should be collected to confirm previous results and provide a point of comparison for the indoor air samples

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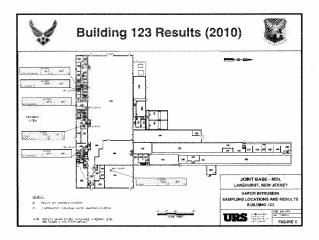


# 2010 Sampling Results Hangar 1



- Chloroform and methylene chloride detected in one indoor air sample and outdoor air sample
- Not detected in sub-slab vapor sample
- Common lab contaminants
- Trimethylbenzenes detected in training area
- These are ingredients of floor paint stored nearby plus floor and walls were painted within the last year
- Not detected in sub-slab vapor sample

"WIN AS ONE"



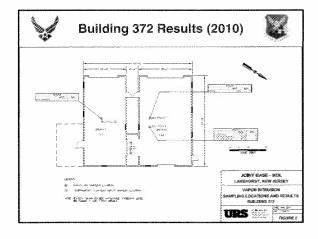


# 2010 Sampling Results Building 123



- Chloroform and methylene chloride detected in one indoor air sample in women's locker room
- Not detected in sub-slab sample
- Common lab contaminants
- Benzene detected in storage room
- Gasoline containers stored in same room
- Benzene not detected in sub-slab sample

"WIN AS ONE"





# 2010 Sampling Results Building 372



- Benzene detected in north garage bay
- Gasoline containers stored in same room
- Benzene not detected in sub-slab sample

"WIN AS ONE"



#### Summary



- Draft report submitted for regulatory review February 16, 2011
- Recommendations/Conclusions:
  - \* 2010 sub-slab results consistent with the 2007 results
  - Sub-slab compounds correspond with local groundwater impacts
  - Chemicals detected in indoor air do not correspond with those in sub-slab vapor, they are from materials stored and/or used nearby or laboratory contamination
  - The levels detected in indoor air are well below OSHA permissible exposure levels, vapor intrusion is not a problem at these buildings and no further action is necessary

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# Questions?

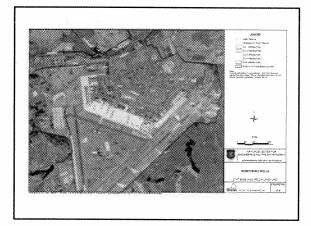
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## 87th Air Base Wing



Joint Base McGuire-Dix-Lakehurst Restoration Advisory Board

OUs 1, 2, 3, 4, 5 and BOMARC Update Fred Poli - Project Manager Shaw Environmental & Infrastructure, Inc





### 87th Air Base Wing



JB MDL Restoration Program Managers

- \* King Mak (OU-1, OU-3)
- Michael Brown (OU-2, OU-5)
- \* John King (OU-4, BOMARC)

Shaw Environmental & Infrastructure, Inc. Project Managers

- Jim Richman (OU-1, OU-3, OU-4, OU-5, BOMARC)
- Gerry Maresca (OU-2)

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### OU-1





#### SITES

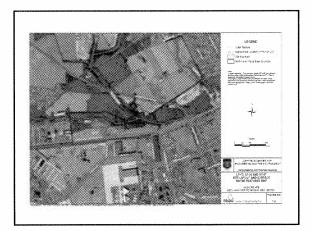
- \* LF-03: Landfill No. 02
- \* ST-07: Former DRMO Facility
- LF-04: Landfill No. 03

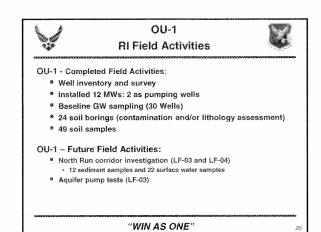
#### Workplan status:

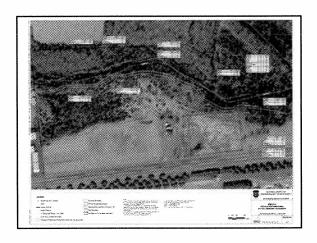
- Submitted Draft Final RIWP for OU-1 in October 2010
  - \* QAPP/HASP/HHRA WP/SLERA WP

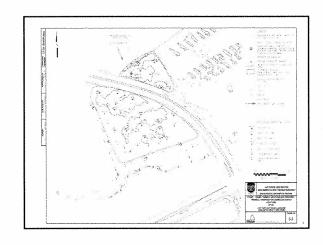
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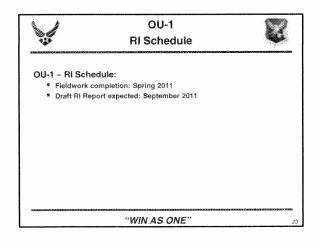
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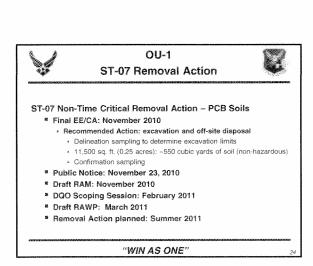


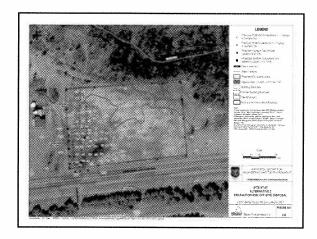


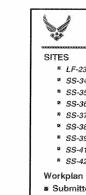












### OU-2 Remedial Investigation (RI) \* LF-23: Former Landfill (Surrounded by SS-34) SS-34: Vehicle Maintenance SS-35: 1900 Area Buildings SS-36: 2300 Area Buildings \* SS-37: Vehicle Maintenance SS-38: Transportation Motorpool \* SS-39: Aircraft Maintenance SS-41: Former Golf Course Maintenance \* SS-42: Central Heat Plant Workplan status: ■ Submitted Draft Final RIWP for OU-2 in October 2010 \* QAPP/HASP/HHRA WP/SLERA WP "WIN AS ONE"

