MEMORANDUM FOR EAB MEMBERSHIP

FROM: 88 ABW/CEV
5490 Pearson Rd.
Wright-Patterson AFB OH 45433-5332

SUBJECT: Environmental Advisory Board (EAB) November 2006 Meeting Minutes

1. Location: Fairborn Library
2. Date/Time: 15 November 2006, 6:00 pm
3. Co-Chairmen: Mr. Mark Mays, 88 ABW/CEV
   Mr. Richard Little, Beavercreek Township
4. Members Present:

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<tr>
<th>ORGANIZATION</th>
<th>PHONE</th>
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<tr>
<td>Ohio EPA/OFFO</td>
<td>285-6483</td>
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<tr>
<td>Ohio EPA/OFFO</td>
<td>285-6469</td>
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<tr>
<td>Green Env Coalition</td>
<td>767-1036</td>
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<tr>
<td>B.W. Greenway</td>
<td>878-6060</td>
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<tr>
<td>Beavercreek Township</td>
<td>426-2917</td>
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<tr>
<td>Env. Management Division</td>
<td>257-2121</td>
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<tr>
<td>Beavercreek Env Adv Comm</td>
<td>512-2831</td>
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<tr>
<td>City of Dayton</td>
<td>333-3727</td>
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5. Other Attendees:

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<th>ORGANIZATION</th>
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<tr>
<td>City of Huber Heights</td>
<td>233-1423</td>
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<tr>
<td>League of Women Voters</td>
<td>865-4164</td>
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<tr>
<td>Sierra Club</td>
<td>426-5843</td>
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<td>MVRPC</td>
<td>531-6548</td>
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<td>US Env. Protection Agency</td>
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<tr>
<td>Dayton Env. Advisory Bd</td>
<td>775-3455</td>
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<tr>
<td>City of Fairborn</td>
<td>754-3097</td>
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6. 88 ABW/CECX 656-3382
   88 ABW/CEVO 257-5528
   88 ABW/CEVS 257-7516
   88 ABW/PA 522-3518
   88 AMDS/SGPB 255-6815
   88 ABW/CEVO 257-8591
   88 AMDS/SGPB 255-6815
7. Administrative:

The meeting was brought to order by Mr. Rich Little. Mr. Little informed the members that he had the pleasure of meeting the new Wing Commander, Col Ryan, at which time he invited her to attend the EAB meetings when she had the opportunity.

Ms. Bonnie Buthker introduced Ms. Donna Bohannon who will become the primary Ohio EPA representative. The EAB members and other attendees introduced themselves.

New Business:

a. **AICUZ Update.** Ms. JoLynn Anderson, WPAFB community planner, provided information on the AICUZ (Air Installation Compatible Use Zone) Program. This program addresses the management of aircraft noise and identifies compatible land use in and around the surrounding areas of Wright-Patterson AFB. The objective of the program is to discover a way to perform flying missions for the Air Force, at the same time causing the least amount of harm to the community by prolonged noise exposure. Also, compatible land use would enable the community to accommodate the base by avoiding doing things that would cause difficulty in flying missions. An area of concern is height obstructions that would cause harm to the aircraft and the crew. The Ohio Revised Code (ORC) Chapter 4563 as it applies to height restrictions applies for the base the same as it applies for public airports. If the land is decided to be incompatible for the aircraft flying missions, it could restrict airfield operations and, in turn, could adversely affect jobs on base.

   The first step of identifying compatible land use is to perform a noise study by identifying the highest levels of noise at designated points around the airfield during normal operations. When a noise contour is established, then the surrounding areas are researched to discover what type of activities occupies each area. Maps are created from this information and the noise contours are placed on the map. Noise zoning is established in this manner. The last study was completed in 1995. In accordance with the Air Force Instruction, a new study must be done if the noise level raises 2 decibels. The next noise study will be performed in September 2007 as a result of the C5’s arriving at WPAFB. The current WPAFB airport zoning map is available at Montgomery County Planning Commission’s website: http://www.mcohio.org/revize/montgomery/services/planning_commission/wpafb_zoning.html.

b. **Environmental Restoration Program & Air Force Center for Environmental Excellence.** Mr. Mays reported on the Air Force Center for Environmental Excellence (AFCEE). Currently, AFCEE is located at Brooks City Base, Texas, but will be relocating to Lackland AFB in San Antonio, Texas. There is an Air Force wide effort to centralize a portion of the Installation Restoration Program at AFCEE. Most likely it will only involve contracts. The earliest this is likely to occur is in FY08. There are no official decisions yet.

c. **Operable Unit 1 Monitoring Wells Brief Update.** Mr. Sherm Siegal presented information on the compliance monitoring at Landfills 8 and 10 located in Area B. These landfills were capped by Environmental Management in the 1990’s. This area is located adjacent to “The Woods” housing development located on WPAFB property. A draft report on the Long-Term Compliance Monitoring is being prepared and will be sent to Ohio EPA and U.S. EPA for their review. The report will present an overview of prior monitoring and present the rationale for optimization of the monitoring scheme. WPAFB will meet with the agencies to address the recommendations. Mr. Scambilis asked what the occupancy status of the housing is in relationship to the landfills. Mr. Mays stated that no homes were vacant due to landfill condition.
d. Building 59 Groundwater Decision Document Status. Mr. Siegal reported on the status of Building 59. This building consisted of three parts which were completed in 1943. It served as a propulsion and equipment research lab and storage facility. When a sump pump failed, a portion of the basement flooded. Samples were taken of the basement water. Results revealed the water was contaminated with trichloroethylene solvent, 200-300 ppb. A Site Investigation (SI) was conducted and completed in 2001. There were four monitoring wells installed with numerous borings. Some of the borings went into bedrock. TCE was found in the soils and in the groundwater within the bedrock. The building was demolished in 2001 and the contaminated soil delineated and removed. Groundwater monitoring of four wells has been conducted since the SI was completed. Elevated levels of TCE have been documented in the two bedrock wells. Dry bedrock borings have been installed on both sides of the old facility, and document limited subsurface bedrock water conditions. Mr. Siegal presented a synopsis of a report provided to the regulatory agencies detailing the groundwater activities affiliated with the site. This included illustrating how TCE concentrations in the bedrock wells spiked after the demolition, and the efforts to eliminate this localized contamination by use of a liquid permanganate injection. The injection was apparently successful in one of the two wells. The document presents the rationale for no further monitoring at the site. Ms. Buthker asked about land use restrictions, and the possibility of vapor intrusion. Mr. Siegal stated that a concerted effort was made to remove contaminated soils to bedrock, and to destroy the primary source of contamination discovered in the bedrock between two wells. Mr. Siegal stated that currently an asphalt covered parking lot is on the site, and any remaining contamination is a distance from surrounding buildings.

e. Building 59 Soils Proposed Plan Update. A Proposed Plan and Record of Decision for soils are presently being developed.

9. Next Meeting: The next meeting is scheduled for 21 February 2007 at 6:00 p.m. in the Fairborn Library meeting room.

Approved as Written

MARK L. MAYS, Co-Chair RICHARD LITTLE, Co-Chair

PHYLLIS J. KENNEDY, Recorder
Agenda

• AICUZ Update
• Environmental Restoration Program & Air Force Center for Environmental Excellence
• Operable Unit 1 Monitoring Wells – Brief Update
• Building 59 Groundwater Decision Document Status
• Building 59 Soils Proposed Plan Update
**What is it?**

- Program to foster compatible land use around the airfield
- OMB Federal Management Circular 75-2, *Compatible Land Uses at Federal Airfields*, requires the Air Force to work with local, regional, state and other federal officials on compatible land use planning
- Addresses hazards from the airfield
- Addresses hazards to the airfield and aircraft
AICUZ
Serving Customer and Country

Why?
- Protect community populations from effects of prolonged noise exposure
- Protect aircraft and crews from unnecessary risk
- Protects the capacity of the Base to fly its mission
- Benefits community by preserving jobs

How does this work?
- AFI 32-7063, Air Installation Compatible Use Zone Program, defines the AICUZ “area of influence,” bounded by the 65dB noise contour
- Identifies geographic areas extending from the airfield into the surrounding community which are subjected to higher average noise levels resulting from airfield activities
- Identifies areas in which height obstructions are of concern
- Hand-in-hand with Ohio Revised Code (ORC) Chapter 4563 on Airport Hazards and Airport Zoning
• Noise Study (1995)
  – Determines noise contours based on operational data
  – A-Weighted, Day-Night average (DNL) method
  – Developed “Maximum Mission” a.k.a. “Mission Capacity” Noise Contours
• Joint Land Use Study (Wyle, 1996)
  – Examined current and proposed land uses
• WPAFB Airport Zoning Regulation (adopted July 1, 1997)

If people don’t mind the noise, what’s the problem?
AICUZ

If people don’t mind the noise, what’s the problem?

GOAL: to avoid encroachment

Encroachment is
  – Incompatible uses…
    • Noise
    • Height
    • Wildlife attractants
      …Which restrict aircraft or airfield operations

If everyone agrees encroachment is “bad”, what’s the problem?
• If everyone agrees encroachment is “bad”, what’s the problem?
  – Wright-Patt’s area of influence includes parts of twelve political subdivisions (counties, townships, cities, etc.)
  – Competition between long-term regional good, and short-term local benefits
  – Municipal staff learning curve

What you can do to help:
  – At local planning and zoning boards
  – When development or land-use changes are proposed
  – When new structures are proposed (cell towers)

• Please contact: Jo Anderson
  WPAFB Community Planner
  656-3382
  e-mail JoLynn.Anderson@wpafb.af.mil
AICUZ

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• WPAFB Airport Zoning Regulation and Map are available at Montgomery County Planning Commission’s website:

  www.mcohio.org/revize/montgomery/services/planning_commission/wpafb_zoning.html

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88th Air Base Wing

Serving Customer and Country

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257-2121
Mark.Mays@wpafb.af.mil

Restoration Program and AFCEE
Air Force Center for Environmental Excellence

- Effort underway by Air Force to centralize some portion of restoration work at AFCEE
- AFCEE located at Brooks AFB, TX
- Earliest it is likely to happen is fiscal year 08
- Most likely will only involve contracts
- Could mean state-wide or regional contracts
- No official decisions yet

88th Air Base Wing

Operable Unit 1 Monitoring Well Update

Sherm Siegal
88 ABW/CEVO
257-2121
OU 1 (LFs 8 & 10) Monitoring

- Compliance Monitoring For Two Landfills Has Been Conducted For Ten Years
  - VOCs, Inorganics, Dioxins/Furans, Pesticides/PCBs, SVOCs, Ammonia & Cyanide

- Draft Report In Preparation for Long Term Compliance Monitoring (Remedial Process Optimization)
  - An Evaluation of Analytical Results & Recommendations For Future LTM Program

Landfill 8
Bldg 59 Location

Integrity-Service-Excellence

Serving Customer and Country

Bldg 59 Cont’d

Integrity-Service-Excellence

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HISTORY

• Constructed In Three Sections 1932 - 43
  – Propulsion And Equipment Research Laboratory And Storage Facility
  – Basements Located Under Portion Of Section “A” and All Of “C”. Middle Section “B” On Slab
    • Sump Pump Failure Resulted In Flooding Of Basement Under Section “A”
    • Basement Water Sample Contaminated With VOCs (1997)
    • Site Investigation Conducted (1998-2001)
      – MWs, Soil Borings, Bedrock Investigation, Source Investigation/Basement Borings
      – Found TCE in Soils and Localized Groundwater in Bedrock
• Building demolished in 2001
  – Site Presently Asphalt Covered Parking Area

Bldg 59 Sampling Locations
Pre-Demo and Demo Activities

- Remediation Conducted As Part Of Demolition
  - Determined What Restoration Activities Can Be Taken Care Of As Part Of Demolition
  - Worked with CE, Contracting, and Regulatory Agencies Throughout the Demolition Contract to Assure Restoration Activities Were Accomplished
    - Sludge in Grease Interceptor, Sumps, and Oil Water Separator Removed (1999)
    - Building Demolished (2001)
      - Removed 347 Tons of TCE Contaminated Soil to Cherokee Run Landfill
      - Confirmation Soil Samples Met Clean-up Goals
Restoration Overview
Monitoring Well Results

- Four (4) Monitoring Wells Installed
  - Two (2) MWs in Limestone & Shale Bedrock
  - Two (2) MWs in Thin Shallow Till Over Bedrock
  - Six (6) Dry Bedrock Borings (3 Regionally Up-Gradient & 3 Regionally Down-Gradient of Site)

- MW 1 - Traces of TCE < 1 ppb
- MW 2 - High Levels of TCE > 3 ppm
- MW 3 - TCE > 200 ppb
- MW 4 – Vinyl Chloride < 5ppb
MW 3 Results Over Time

Integrity-Service-Excellence

MW 2 Results Over Time

Integrity-Service-Excellence
Bldg 59 GW Monitoring
Results/Recommendations

- Concentrations of VOCs in Bedrock MWs 2 & 3 Increased during LTM Surveillance (1999-2005)
  - 425 gallons of 10% Permanganate Solution Injected into MW2 over three-day period (June 2005)
    • Pumped MW3 in attempt to pull through bedrock zones
  - Analytical results have indicated that VOCs have been destroyed in MW 2 (Jan 06) but still present in MW3
- Because of limited migration potential, six (6) dry bedrock borings, non-proximity to valley aquifer, oxidation treatment, recommendation is for no further action to include no further monitoring of groundwater
- Undergoing agency review at present time

Upcoming Events

- Proposed plan and record of decision for soils at building 59 presently being developed
  - Previous documentation for no further action was agreed to by USEPA with intent to proceed based on updated quality assurance documentation
    • Ohio EPA agreed with intent based on USEPA coordination
The next meeting of the Environmental Advisory Board (EAB) is scheduled for 21 February 2006 at 6 pm in the Fairborn Library.