

Stratford Army Engine Plant
Restoration Advisory Board (RAB)
Meeting October 28, 2004

The Stratford Army Engine Plant (SAEP) will hold a Restoration Advisory Board (RAB) on October 28, 2004 at 7:00 p.m. in Room 22, Stratford Army Engine Plant. The meeting is open to the public. Parking is in the West Lot and entry through the main guard station.

Stratford Army Engine Plant
Restoration Advisory Board (RAB)
Meeting October 28, 2004

AGENDA

1. Welcome, opening remarks, introductions, and old business
2. Project status
3. Open Forum, next meeting, adjourn

For additional information call the SAEP BRAC office (Wes LaParl) at 203-385-4316 or Jim Otto, RAB Community Co-Chairperson at [Redacted - Privacy Act](#)

OCT 28, 2004

RESTORATION ADVISORY BOARD MTG

NAME

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Kenneth Feathers

DEP

Rick Norris

LRA

Stratford Army Engine Plant

Environmental Status Update

October 28, 2004

Wes LaParl Plexus-SAEP

AGENDA

- Last Meeting
- Project Update
- Schedule
- CWTP

Last Meeting

- **Printout of slides from last RAB meeting at back of Conference room**
- **Discussed remaining field work needed to complete Final Remedial Investigation**
- **Presented scheduled for delivery of Final Remedial Investigation to DEP**
- **Questions on last meeting**

Project Update

- **Final Remedial Investigation Report**
 - DEP provided comments on RI report in October 2003
 - Ecological risk assessment comments received in April 2004
 - Comments were addressed in final RI Report
- **Final RI Report submitted to DEP in September 2004**
 - Copy of report and comment response document on file at SAEP
 - Requested state concurrence by January 15, 2005

Project Update

- **Final Remedial Investigation Report**
 - Final report addresses state comments on draft
 - No further versions of RI
 - Conclusions in Final RI similar to draft RI

Project Update

- **Refined understanding of groundwater conceptual model**
 - Original “three hot-spot” groundwater concept no longer fully descriptive
 - Other releases to groundwater have occurred
 - Along shoreline at the northern and southern tank farms
 - Other releases to groundwater beneath southern end of Building B-2 and beneath Building B-3
- **Tidal data collected in 2004 support assumptions made in groundwater flow model**
 - Hydraulic conductivities

Project Update

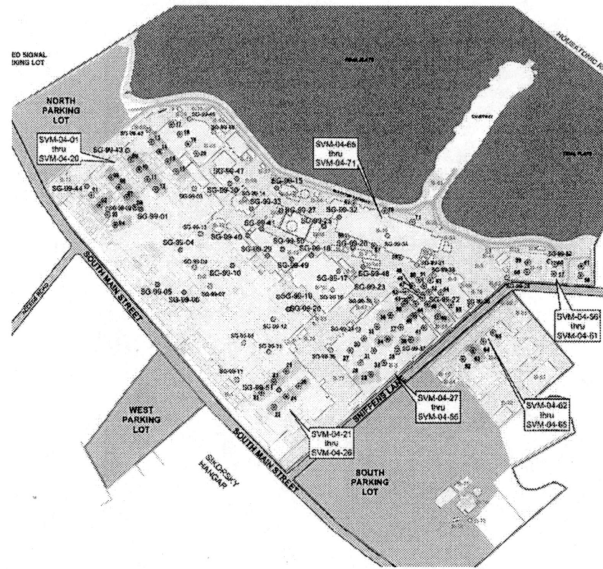
- **Final Remedial Investigation Report**
- Risk Assessment
 - Cancer risks for combined exposures to soil and indoor air at the Main Site exceed the USEPA cancer risk range. The risks in excess of the USEPA cancer risk range are due to potential exposures to indoor air at Building B-2
 - Potential risks to listed bird species (piping plover) were identified at the Outfall 008 Drainage Area, and potential risks to the piping plover were also identified at the Tidal Flats. Risks may be overestimated based on actual exposure

Project Update

Results of 2004 Field Investigation

- Soil Vapor
- Bedrock Wells and Groundwater Results
- 2004 Groundwater Monitoring Results

Soil Vapor Locations



Project Update

Soil Vapor

- In 2004 permanent soil vapor points were installed in the northern and southern ends of Building B-2, B-65, B-3, B-3A, B-4, B-16 and B-19 to determine compliance with RSRs
- TCE was detected in 66 out of 68 soil vapor samples at concentrations ranging from 0.007 to 130 parts per million by volume (ppmv).
 - TCE soil vapor criteria = 0.26 ppmv
- Results of the 2004 soil vapor survey identified TCE above I/C VC in Buildings B-2, B-3 and B-3A, and that PCE was above the VC in Buildings B-3, B-3A, and B-4

Project Update

Bedrock Wells

- Two bedrock wells installed and sampled in 2004
- Rock core RQDs between 90-95 % with 1 or 2 natural fractures in upper 20 feet of bedrock surface
- Some groundwater flow in bedrock
- No TCE, TCA or PCE detected
- No DNAPL present

Project Update

Bedrock Wells - Continued

- Low levels of VOCs in BRW-04-01 located along dike behind Building B-19
- DCE, DCA and Cis12 DCE in BRW-04-01 at 0.75 µg/l, 3.9 µg/l and 3.8 µg/l
 - DCE SWPC = 96 µg/l
 - Cis 12 DCE SWPC = 70 µg/l

Project Update

2004 Groundwater Monitoring

The objective of the groundwater monitoring was to obtain current concentrations of VOCs and hexavalent chromium to compare to previous results and evaluate contaminate migration and attenuation

Project Update

2004 Groundwater Monitoring

- Sampled and analyzed 56 wells for VOCs and inorganics including mercury
- Sampled and analyzed 21 wells for Hexavalent Chromium
- Replaced 8 destroyed tidal wells
- 74 hour tidal study that included tidal wells

Project Update

2004 Groundwater Monitoring

- No significant migration of Hexavalent Chromium observed downgradient well locations
- Inorganic results from 2004 are similar to 1999 results with few exceptions
 - Mercury which was found in three samples in 1999 was not detected in any groundwater samples in 2004

Schedule

Final RI

- Final RI to regulators – 3 months following completion of field investigation (soil gas, bedrock, tidal wells)
 - Completed field work – July 2004
 - Submitted Final RI to DEP - September 2004

FS and Proposed Plan

- Submit draft FS and Proposed Plan to regulators – 4 months from DEP concurrence on Final RI report. Concurrence expected by January 15, 2005
 - Assuming this FS/PP to DEP in May 2005

Chemical Treatment Plant B-18

- Chemical Treatment Plant used to treat metal bearing wastewater during plant operation
- In process of decommissioning treatment tanks
- Disposed of 450,000 gallons of non-hazardous effluent from equalization basin between August and September of 2004
 - Plan is to redirect any accumulated rainwater from equalization basin to SAEP storm sewer
- Disposed of 50,000 gallons of effluent from treatment maze and clarifier in September 2004