

**Stratford Army Engine Plant
Restoration Advisory Board (RAB)
Meeting October 26, 2000**

The Stratford Army Engine Plant (SAEP) which is proceeding with closure action under provisions of the Base Realignment and Closure Act (BRAC) of 1995 will hold a Restoration Advisory Board (RAB) on October 26, 2000 at 7p.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 26, 2000**

AGENDA

1. Welcome, opening remarks, introductions, announcements, old business.
2. Status report and discussion of Causeway Decision Document.
3. Open forum, next meeting, adjourn.

For additional information call the SAEP BRAC office (John Burlison) at 385-4316 or Jim Otto, RAB Community Co-Chairperson at Redacted - Privacy Act

**RESTORATION ADVISORY BOARD
26 OCTOBER 2000**

SIGN IN SHEET

NAME	ORGANIZATION	PHONE #
Redacted - Privacy Act		
Jim Otto		
JOHN BURLESON		
Redacted - Privacy Act		
R. Rosen	ERI	860-290-9300
M. STEWART		
J. MIHALEY		
E. O'Keefe		

**STRATFORD ARMY ENGINE PLANT (SAEP)
RESTORATION ADVISORY BOARD (RAB)**

MEETING MINUTES

October 26, 2000

The Restoration Advisory Board for the SAEP conducted a regular meeting on Thursday, October 26, 2000 at 7:00 p.m. in Room 22 of Stratford Army Engine Plant, 550 Main St., Stratford, Connecticut, pursuant to notice duly given.

Call to Order: The meeting was called to order at 7:00 p.m.

Presiding: Jim Otto, Community Co-Chairman

Members in Attendance: M. Stewart, E. O'Keefe, J. Mihaley, J. Burleson

Others in Attendance:

Redacted - Privacy Act **Redacted - Privacy Act**

R. Rosen (ERI)

1. **Welcome, Opening Remarks, Introductions, Announcements, Old Business.**
2. **Causeway Decision Document-Status Report and Discussion:**
Redacted - Privacy Act **and** Redacted - Privacy Act **made the following presentation.**

- Investigation Summary
- Overview of a Stability Evaluation
- Stability Analysis Method
- Uncertainties and Model Assumptions
- Geo-Slope Model Results
- Impact of Cover Thickness
- Conclusions

Further discussion followed regarding:

- DEP will accept 2' asphalt cap, or 4' cap if no asphalt beneath (allowing for direct human contact).
- Contaminated soils will be removed prior to construction of cover system.
- 2' cover adequate to account for wave erosion during storm events.
- Town of Stratford needs to submit ideas and options for design elements in redevelopment plan for causeway.
- 30% design completion due early Jan. 2001, and decisions made at that point will be irrevocable.
- Development plans and how causeway will be involved; passive recreation/park area; possible boat docking area; extension of bikeway.

3. **Next Meeting:** The next meeting will be Thursday, January 18, 2001. There being no further business, the meeting adjourned at 8:15 p.m.

Respectfully submitted,


Debbie Gallo, Recording Secretary

**Preliminary Geotechnical Evaluation
Stratford Army Engine Plant**

Causeway Erosion Control Cover System

Harding ESE
A MACTEC COMPANY

October 26, 2000

Presentation Summary

- Investigation Summary
- Overview of a Stability Evaluation
- Stability Analysis Method
- Uncertainties and Model Assumptions
- Geo-Slope Model Results
- Impact of Cover Thickness
- Conclusions

V0200-00.pdf - Page 2

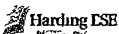
Investigation Summary

- Activities initiated on September 18, 2000
- Four borings on Causeway and five borings in tidal flats
 - Shear testing to provide information on soil strength
 - Shelby tube sampling to supply undisturbed samples for laboratory analysis
 - Split-spoon sampling to continuously record subsurface conditions
- Additional borings proposed on slope of Causeway

V0200-00.pdf - Page 2

Overview of a Stability Evaluation

- **Goal: To assess the stability of a structure (e.g., Causeway)**
- **Measure: Factor of Safety (F.S.)**
 - F.S. = Resisting Force / Driving Force
 - Driving Force = function of weight, geometry, water conditions
 - Resisting Force = function of shear strength
 - Acceptable F.S. is greater than 1; typical engineering practice is 1.3 immediately following construction



V0200-01.pdf - Page 1

Analysis Method

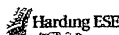
- **Geo-Slope (Slope/W) software used to perform calculations**
 - **Inputs: geometry, soil properties, water conditions**
 - Determined from previous investigations and assumptions for proposed actions
 - For the Causeway:
 - Simplistic Geometry
 - Soil Properties based on field testing
 - **Calculation: F.S. for various points and circles**
 - **Outputs: F.S., contour of minimum F.S., location of minimum F.S.**



V0200-01.pdf - Page 2

Uncertainties

- **Cracks in the Causeway fill**
- **Compatibility of fill material vs. native sediment**
- **Extent of fill under shoulder and toe**
- **Strength gain in native sediment**



V0200-01.pdf - Page 3

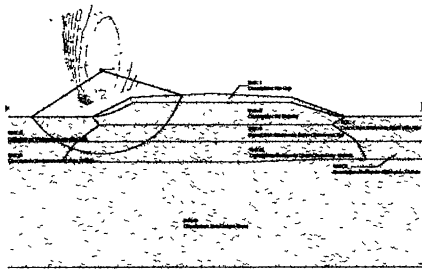
Assumptions for Modeling

- Minimum 4-foot cover system at the shoulder
- 6 percent minimum slope for drainage (7-foot thick cover in center)
- Cover thins to 2 feet over the toe
- Shear strength may be 30 percent less than observed in field
- No removal or re-grading of existing Causeway fill material

10/25/00 Page 7



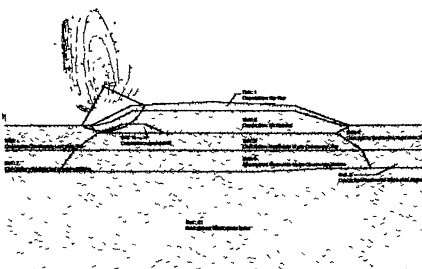
4-foot Cover without Cracks



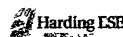
10/25/00 Page 8

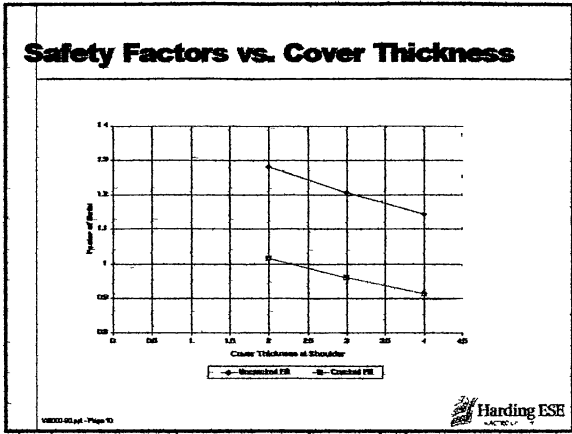


4-foot Cover with Cracks



10/25/00 Page 9





Conclusions

- **4-foot cover system is not feasible from a geotechnical standpoint**
- **Options to the proposed alternative:**
 - Thinner cover system than proposed
 - Remove construction debris prior to cover placement
 - Move fill from toe of Causeway to top of Causeway
 - Use an engineered cover material

Harding ESE
V0320-01-01 Page 11
