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NAS WHITING FIELD
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RESTORATION ADVISORY BOARD MEETING SLIDES 23 SEPTEMBER 1998 NAS WHITING
FIELD FL
9/23/1998
RESTORATION ADVISORY BOARD

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**NAS Whiting Field RAB Meeting
September 23, 1998**



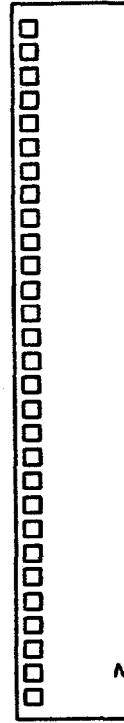
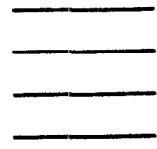
Naval Air Station (NAS) Whiting Field

*Restoration Advisory
Board (RAB) Meeting*

September 23, 1998



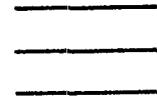
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*Welcome - Logan Fink,
Community RAB Co-Chair*

■ **Tonight's agenda**

- ◆ status of Site 1 Record of Decision (ROD) - Pat Durbin
- ◆ Remedial Investigations (RI): Sites 9 and 10, and Site 12 - Jim Williams, ~~HLA~~
- ◆ RIs: Sites 3, 4, 6, 30, 32, and 33 - Phil Ottinger
- ◆ RAB administration and discussion



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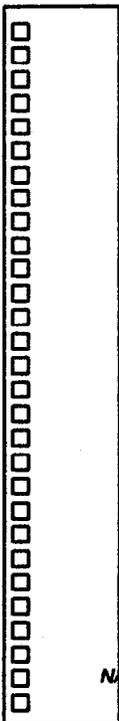
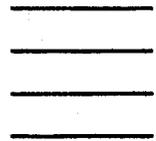
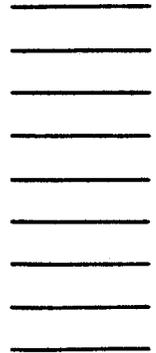


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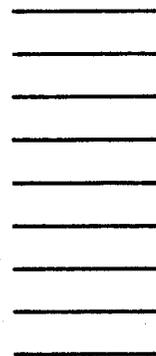
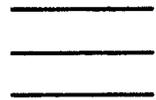
***Status of Site 1
Record of Decision (ROD)
- Pat Durbin
Navy RAB Co-Chair***



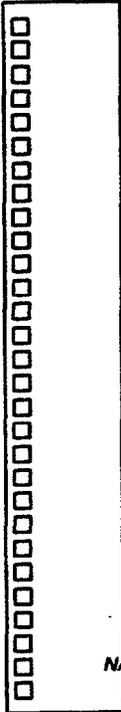
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Site 1 ROD

- Proposed Plan public meeting held on August 27
- Proposed Plan public comment period runs through September 24
- Two comments received to date
- Draft ROD is with U.S. Environmental Protection Agency (USEPA) and Florida Department of Environmental Protection (FDEP) for review
- Final ROD expected shortly



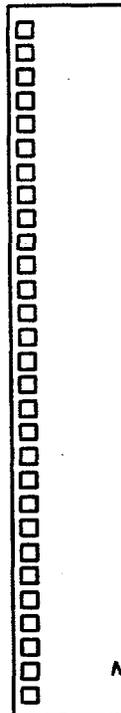
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***Remedial Investigations (RI):
Sites 9 and 10, and Site 12***

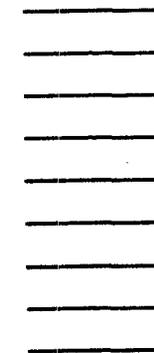
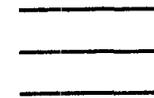
Jim Williams, Harding Lawson Associates



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What Do the RIs Cover?

- RIs address soil, sediment, or surface water present at the sites
- Groundwater is being studied in a separate basewide groundwater investigation



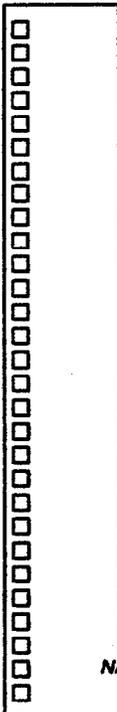
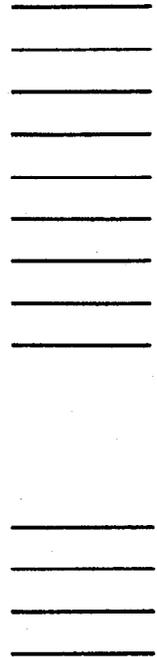
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Completed Fieldwork at Sites 9 and 10

- Geophysical survey
- Soil gas survey
- Soil sampling
- Surface water sampling
- Monitoring well installation and groundwater sampling
- Geologic and hydrogeologic tests

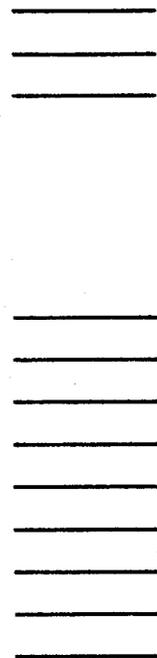
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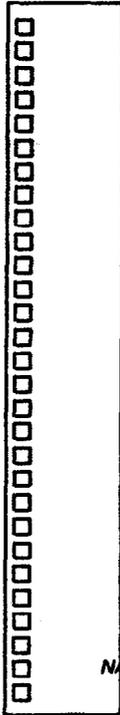
RI Findings For Both Sites

- Soil is generally clay and sand
- Water table is approximately 86 feet below land surface
- Groundwater flow is to the southeast
- Evidence of buried waste found

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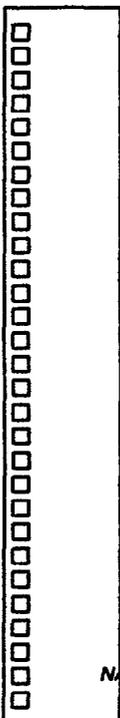
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RI Findings For Both Sites (cont.)

- Background arsenic levels did not meet Florida standards for residential sites
- Arsenic may be naturally occurring
- No evidence of chemicals moving off the site through groundwater

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***Site 9 Risk Assessment
Findings: Human Health***

- Estimated health risks from ingestion of arsenic in soil did not meet Florida standards for protection of human health
 - ◆ estimates are for hypothetical future site residents
 - ◆ risk may be from natural arsenic concentrations

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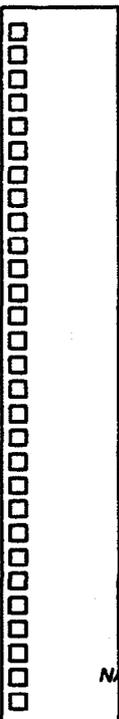
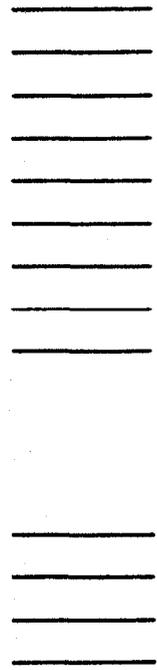
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***Site 9 Risk Assessment
Findings: Ecological***

- Ingestion of aluminum in surface soil by small mammals may cause growth and reproduction effects

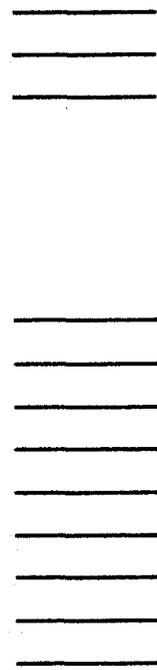
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***Site 10 Risk Assessment
Findings: Human Health***

- Estimated health risks from ingestion of arsenic and polynuclear aromatic hydrocarbons (PAHs), a family of carbon-based compounds, in soil may be unacceptable under Florida standards
 - ◆ estimates are for hypothetical future site residents or workers and trespassers
 - ◆ risk may be due to natural arsenic concentrations or other substances unrelated to past disposal activities

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Vertical column of 25 small squares for marking.

*Site 10 Risk Assessment
Findings: Ecological*

- Exposure to PAHs in surface soil may cause growth effects in invertebrates (earthworms)

Horizontal lines for notes.

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Horizontal lines for notes.

Horizontal lines for notes.

Vertical column of 25 small squares for marking.

Site 12: Tetraethyl Lead Disposal Area



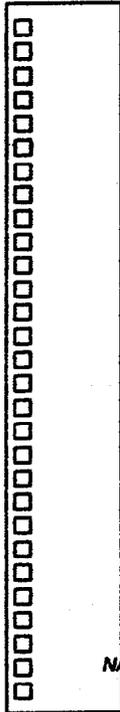
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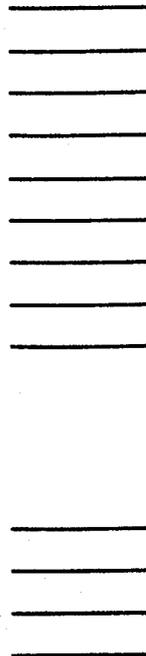
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Site 12 Background

- Less than one-tenth of an acre in size
- Reportedly used for sludge disposal in 1968
- Sludge came from cleaning aviation fuel tanks and filters
- Sludge was piled on surface and covered with soil

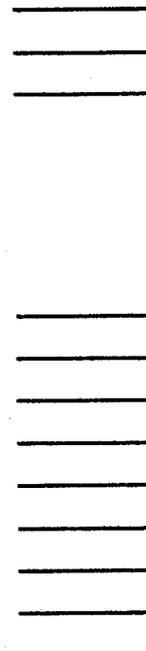
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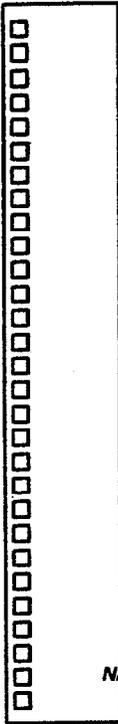
Completed Fieldwork at Site 12

- Soil sampling
- Monitoring well installation and groundwater sampling
- Hydrogeologic investigations

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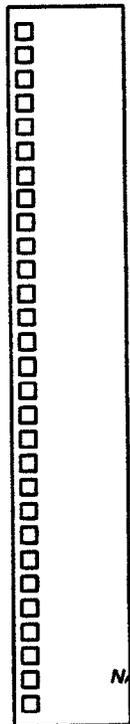
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Site 12 Risk Assessment
Findings: Human Health

- Estimated health risks from ingestion of arsenic in soil did not meet Florida standards for protection of human health
 - ◆ estimates are for hypothetical future site residents
 - ◆ risk may be from natural arsenic concentrations
- Background arsenic levels in soil also posed unacceptable risks under Florida standards

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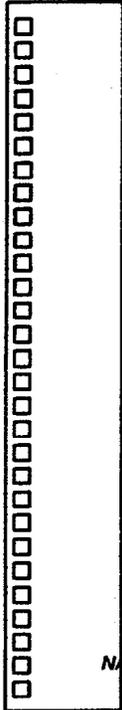
Site 12 Risk Assessment
Findings: Ecological

- No risks predicted for wildlife and plants at the site
- Native plants continue to flourish at the site

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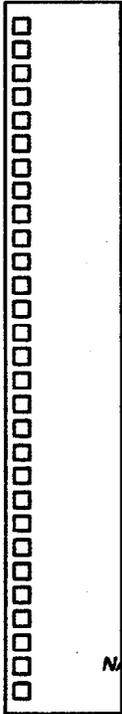


RI Recommendations

- **Conduct feasibility studies (FS)**
 - ◆ address potential risks as identified
 - ◆ establish cleanup goals that are protective of human health
 - ◆ identify and evaluate ways to meet that goal



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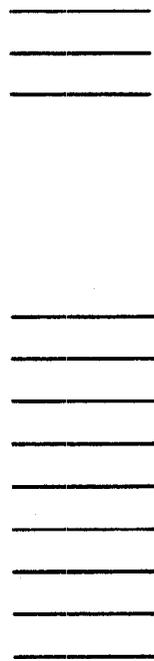


Current Activities

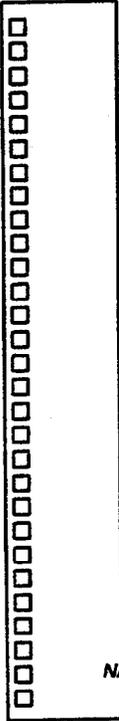
- **FS reports for Sites 9 and 10, and Site 12 are being prepared. These reports use data collected during the RI to**
 - ◆ evaluate potential options to address risks posed by site contaminants
 - ◆ recommend preferred options



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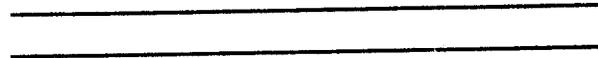
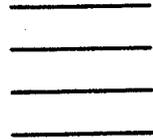


Next Steps

- Review of draft FS reports by USEPA and FDEP
- Address agency comments, finalize FS reports
- Public involvement on the RI/FS and subsequent Proposed Plans for the sites

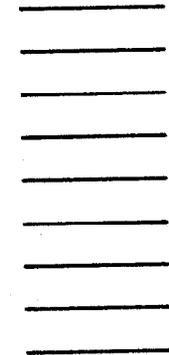
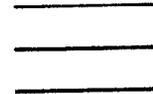


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***RI's at Sites 3, 4, 6, 30, 32, and
33 - Phil Ottinger***

Tetra Tech NUS



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RAB Administration and Discussion

- Location and schedule for next meeting
- Agenda topics and speakers

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Vertical column of 25 small square checkboxes.

Questions and Comments



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Vertical column of 10 horizontal lines.

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