

11/14/07-00661

**RESTORATION ADVISORY BOARD (RAB)
AGENDA**

**For the
Installation Restoration Program (IRP)
St. Juliens Creek Annex
Chesapeake, Virginia**

**Major Hillard Library
824 Old George Washington Hwy
Chesapeake, Virginia 23323
(757) 410-7075**

Wednesday, November 14, 2007 from 5:00 to 6:30 PM

TOPIC

SPEAKER

Welcome & Introduction

Tim Reisch
Naval Facilities Engineering Command

Site 5 Removal Action

Tim Reisch
Naval Facilities Engineering Command

Break

Conceptual Site Models

Kim Henderson
CH2M HILL

Indoor Air Vapor Intrusion

Glenn Markwith
Navy Environmental Health Center

Roundtable

Comments/Questions
Future RAB Meeting Schedule
Future Agenda

Tim Reisch
Naval Facilities Engineering Command

Closing Remarks & Adjourn



Innovative Approaches to Streamlining the Regulatory-Driven Reporting Process:

Prototype Applications

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October 2007



The Navy's Experience

St. Juliens Creek Annex

RAB Meeting

November 14, 2007

Presentation Overview



- **Overview and approach to streamlining**
- **Benefits**
- **Prototype demonstrations**
- **Challenges and solutions**
- **Future possibilities**

Why Streamline?



- **Typical hard copy deliverables are lengthy, highly technical, and too complex for target audience**
 - Public input
- **DoD and EPA formed a joint Task Force to develop streamlined procedures and expedite site closure at federal facilities**

Why Streamline? (con't)



- **Consistent with:**

- **The President's Management Agenda, Fiscal Year 2002**

- Directed government agencies to implement better business management practices to provide cost and time savings using electronic enhancements

- **Section 3504(a)(1)(B)(vi) of Title 44, US Code**

- "(vi) the acquisition and use of information technology, including alternative information technologies that provide for electronic submission, maintenance, or disclosure of information as a substitute for paper"

Goal for Streamlining



- **To produce documents that:**
 - **Are more concise and easier to read**
 - **Reference detailed or complex technical information**
 - **Are understood by a broader audience**
 - **Use modern information management technology**
 - **Expedite regulatory review and decision-making**
 - **Are cost-effective**

What is a Streamlined Document?



- Streamlined hard copy document with electronic deliverable (CD)
 - Self-launching
 - Free-ware
 - Interactive
 - Graphically oriented
 - Easily navigable



Benefits



- **Significantly reduced document size**
 - 300 pages vs. 30 pages
 - Minimize text, focus on graphic presentation
- **Global time/cost savings**
 - Reduction in review time
 - Reduction in document size



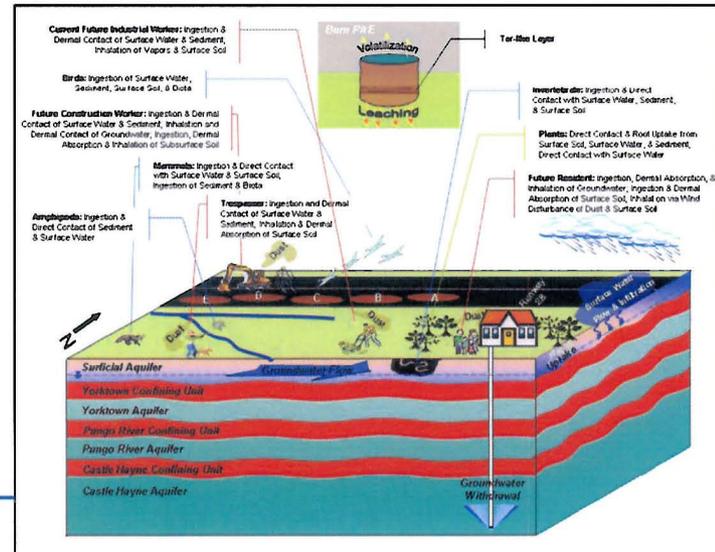
Benefits (con't)



- Higher quality document
 - Concise language
 - Considers public review and understanding
 - Intuitive and easily navigable format
- Support from DoD and regulatory agencies
 - Consistent with guidance and regulatory requirements
- Provides more information than a typical hard copy document



Analyte Name	Range of Detected Concentrations	Screening Value	Frequency of Exceedance	Location of Maximum Exceedance	Range of Hazard Quotients
Iron	5,480 - 50,400	20,000	29 / 56	SJSBK-SD09-002	0.270 - 2.50
Lead	17.0 - 437	35.8	47 / 56	SJBC-SD18-03C	0.470 - 12.0
Manganese	26.5 - 413	260	12 / 56	SJBC-SD30-03C	0.100 - 1.60
Mercury	0.030 - 1.10	0.150	29 / 56	SJBC-SD04-03C	0.200 - 7.30
Nickel	3.70 - 41.4	20.9	16 / 56	SJSD4-SD05-001	0.180 - 2.00
Selenium	0.710 - 2.30	1.00	12 / 56	SJSBK-SD08-001	0.710 - 2.30
Silver	0.190 - 0.790	1.00	0 / 55	SJSD4-SD04-000	0.190 - 0.790
Vanadium	4.00 - 86.0	57.0	4 / 56	SJSBK-SD09-001	0.070 - 1.50



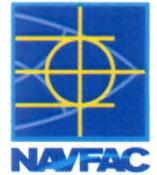
Prototype 1: sROD



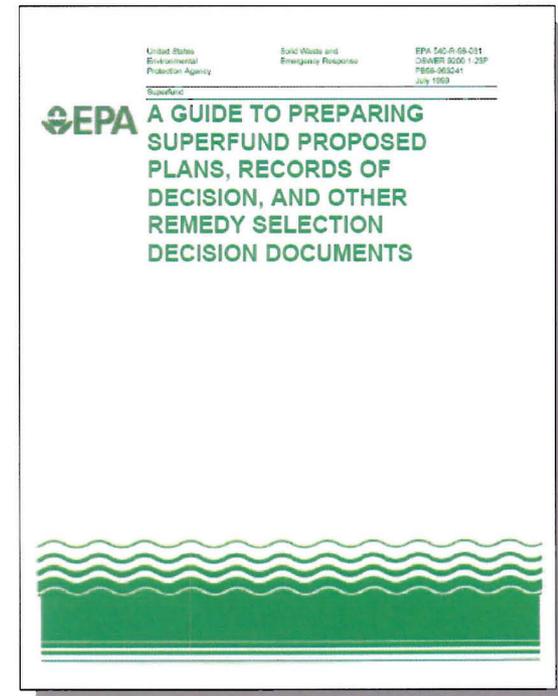
Streamlined Record of Decision (sROD) Operable Unit 6, Site 12, MCAS Cherry Point, North Carolina



sROD Background



- **ROD is a legal document that certifies the remedy selection process in accordance with CERCLA and the NCP**
 - Summarize **background info and rationale contained in the Administrative Record**
 - **Provide information necessary for determining engineering components and outline objectives and cleanup levels for the selected remedy**
 - **Key communication tool for the public that explains contamination problems that the remedy seeks to address and the rationale**
- **Using EPA Guidance on preparing RODs results in 300-600 page documents**



sROD Document Design and Layout



- **Hard copy**

- 20-50 page document depending on complexity of the site
- Use of graphic summary tables and figures to minimize text
- Reference previous documents in Administrative Record

- **CD**

- Cross referenced phrase corresponds to hyperlink on interactive CD

Item	Reference Phrase in ROD	Location in ROD	Identification of Referenced Document Available in the Administrative Record ¹
1	Site 12 is the crash-crew training area	Section 2.1	Final Remedial Investigation Report, Operable Unit 6, Site 12, Crash Crew Training Area, MCAS Cherry Point, North Carolina. Attachment 2, Section 2.2, Pages 2-1 through 2-3. CH2M HILL, December 2005.

sROD Demonstration



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and
TBCs](#)

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Table](#)

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ROD
with
Reference
Documents](#)

[Acronyms](#)

[Exit CD](#)



1 Declaration

This Record of Decision (ROD) presents the Selected Remedy for Operable Unit (OU) 6, Site 12 at Marine Corps Air Station (MCAS) Cherry Point, North Carolina. MCAS Cherry Point was placed on the National Priorities List (NPL) December 16, 1994 (EPA ID: NC1170027261). The remedy was selected in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, and to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). This decision is based on information contained in the Administrative Record for the site. Information not specifically summarized in this ROD or its references but contained in the Administrative Record¹ has been considered and is relevant to the selection of the remedy at OU 6. Thus the ROD is based upon and relies upon the entire Administrative Record file in making the decision.

The Navy, Marine Corps, and the United States Environmental Protection Agency (USEPA) jointly selected the remedy for Site 12, with the concurrence of the North Carolina Department of Environment and Natural Resources (NCDENR). The Navy provides funding for site cleanups at MCAS Cherry Point. The Federal Facility Agreement (FFA) for MCAS Cherry Point documents how the Navy and Marine Corps intend to meet and implement CERCLA in partnership with USEPA and NCDENR.

Prototype 2: eBERA



Electronically Enhanced Baseline Ecological Risk Assessment (eBERA) Blows Creek, St. Juliens Creek Annex, Chesapeake, Virginia



eBERA Background



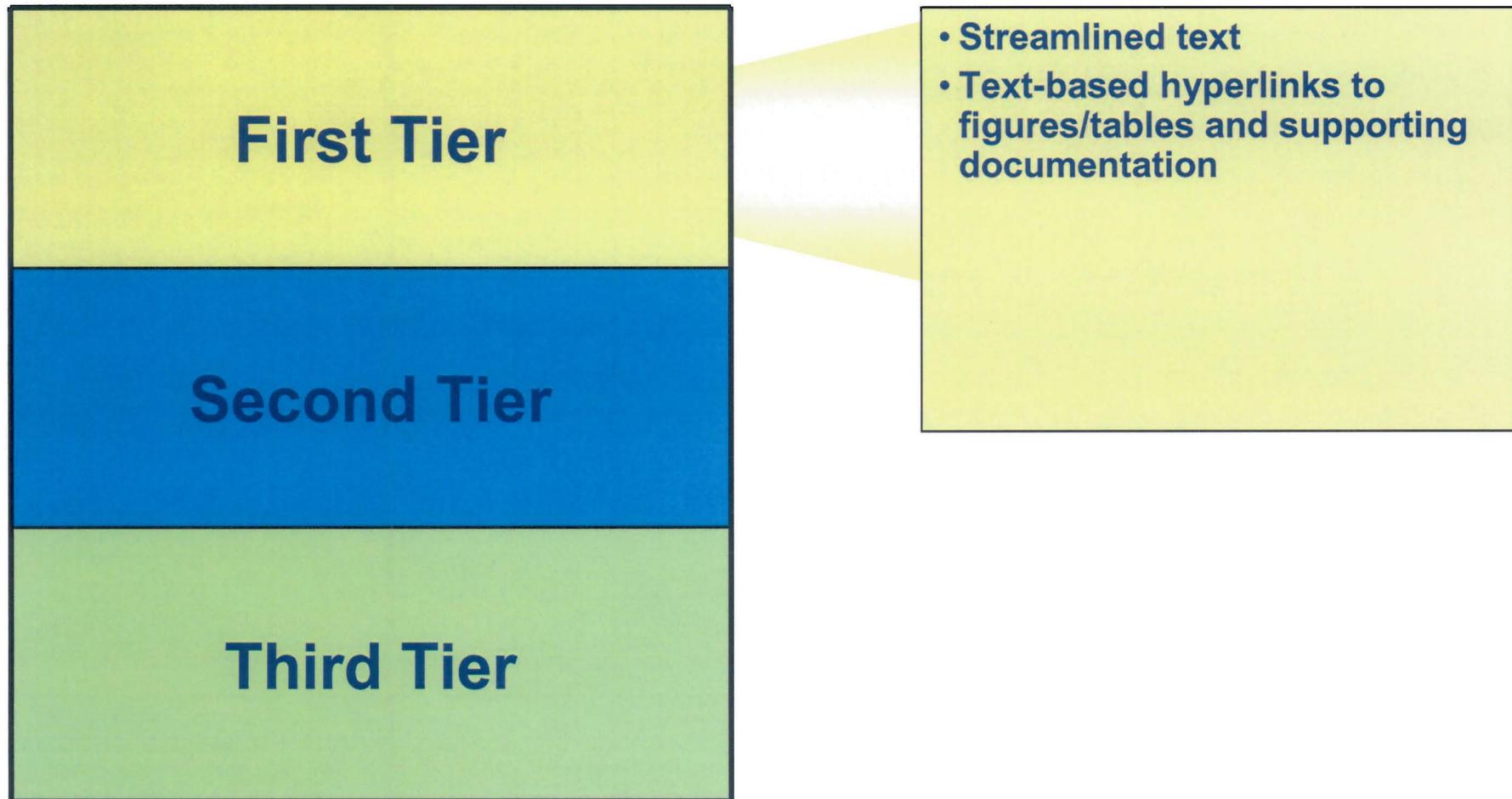
- **Blows Creek**
 - **Estuary to Southern Branch of the Elizabeth River**
 - **Potentially impacted watershed encompasses 313 acres, with multiple landowners**
- **Evaluation encompasses multiple rounds of data and contaminant sources**
- **BERA represents final evaluation of ecological risk and is a basis for remedial decisions**

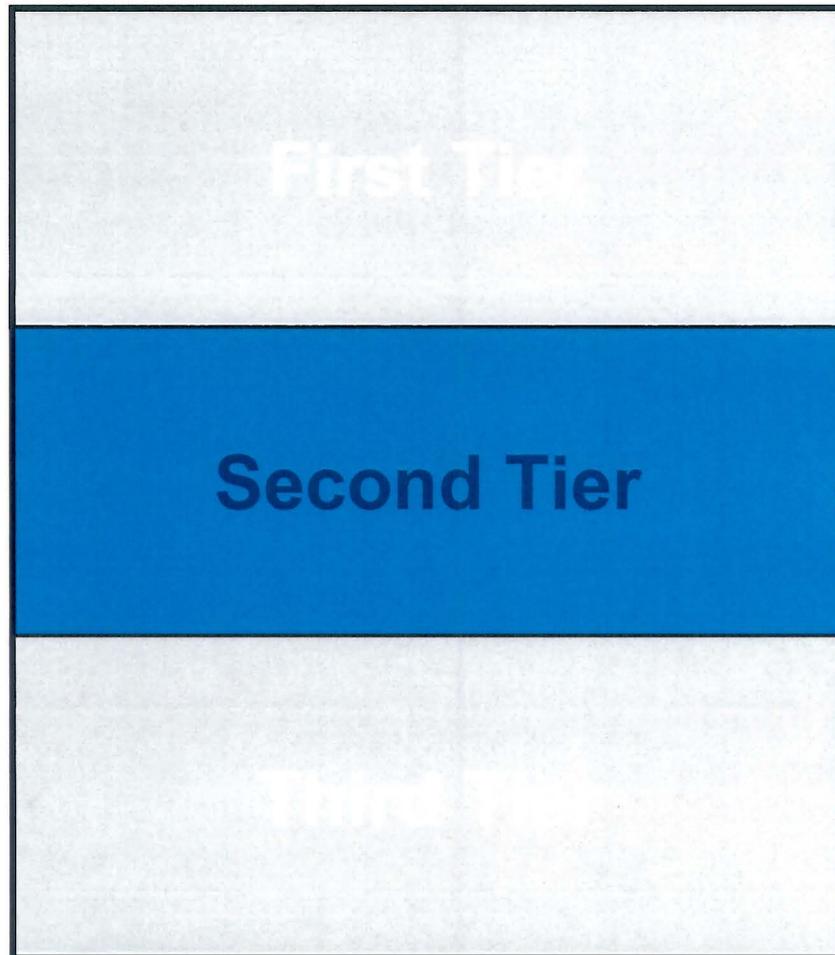


eBERA Document Design and Layout

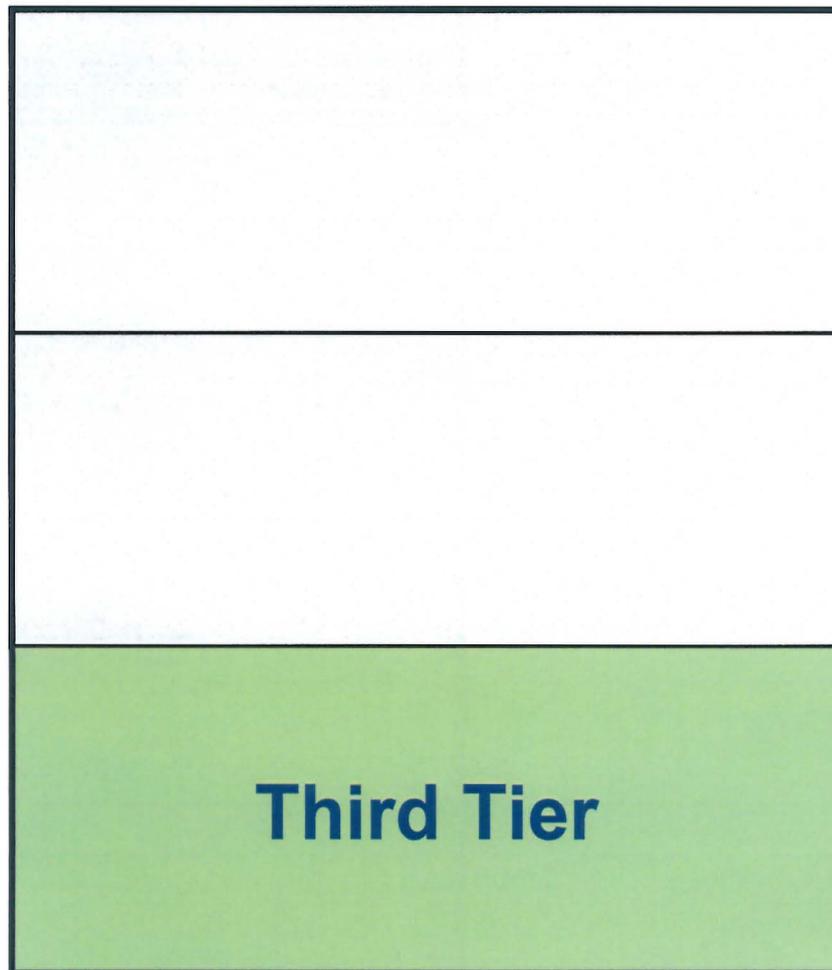


- Increased level of interactivity relative to streamlined ROD
- Information presented in tiered format to facilitate navigation
 - Detail increases with each subsequent tier
 - Tiers logically hyperlinked to subsequent level



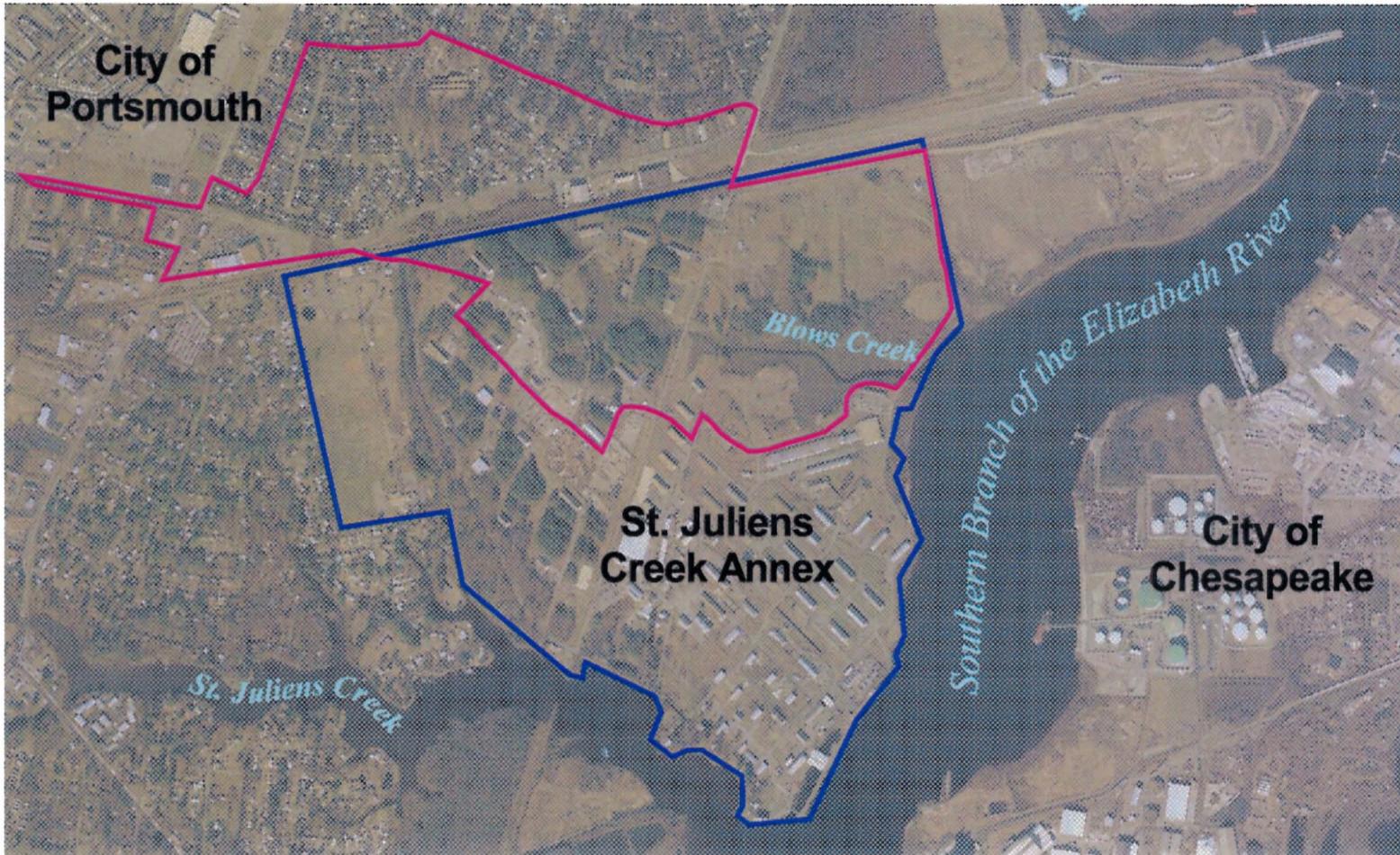


- Visually oriented
- Focuses on interactive summary tables and figures with clickable information boxes
- Hyperlinks to third tier and supporting documentation

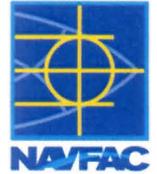


- Summary tables and raw data
- Limited interactivity
- Few hyperlinks

eBERA Demonstration



Challenges and Solutions



- **Non-traditional format**
 - **Work closely with project management team to communicate project approach and goals, and to manage expectations**
- **Some users/reviewers may be resistant to electronic format**
 - **Supporting documentation includes instructions for use**
 - **Provide user ability to easily access compiled hard copy document**
 - **Security settings on some computers created minor challenges (trouble shooting instructions added)**

Challenges and Solutions (con't)



- **Requires well-coordinated effort between technical team, graphic designers, and computer information architects**
 - **Integrate project development/design team early and throughout process**
 - **Manage number and type of interactive figures**
 - **Initial development is more expensive, but creates template for long term cost savings**

Challenges and Solutions (con't)



- **Reviewer may not differentiate between new and historic materials**
 - Clarify upfront what supporting material has been finalized
- **May not be appropriate for all sites**
 - Small sites
 - Security issues that prevent the use of site pictures

Status and Future Applications



- **sROD and eBERA have been accepted as final by regulatory community**
- **Electronically enhanced approach can be used for a broad range of documents**
- **Approach can be easily adapted to meet with differing objectives and scopes**



Questions and Comments

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Objectives



- Review the history of Site 5
- Development of the Engineering Evaluation/Cost Analysis (EE/CA)
- Discuss the recommended removal action alternative, and the phases of implementation
- Discuss groundwater risk management
- Present the path forward/schedule
- Receive comments and answer questions

Questions or Comments?