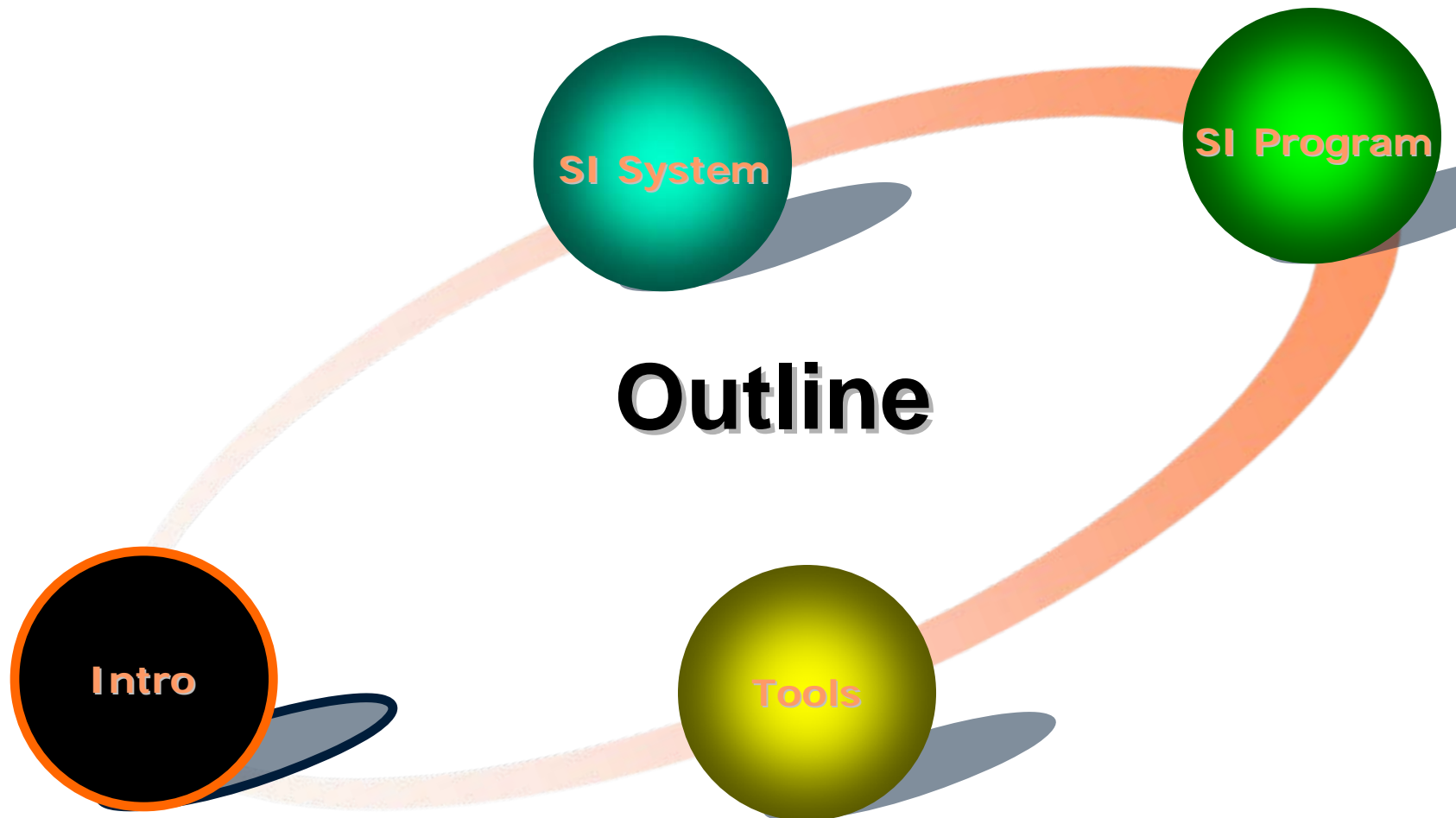


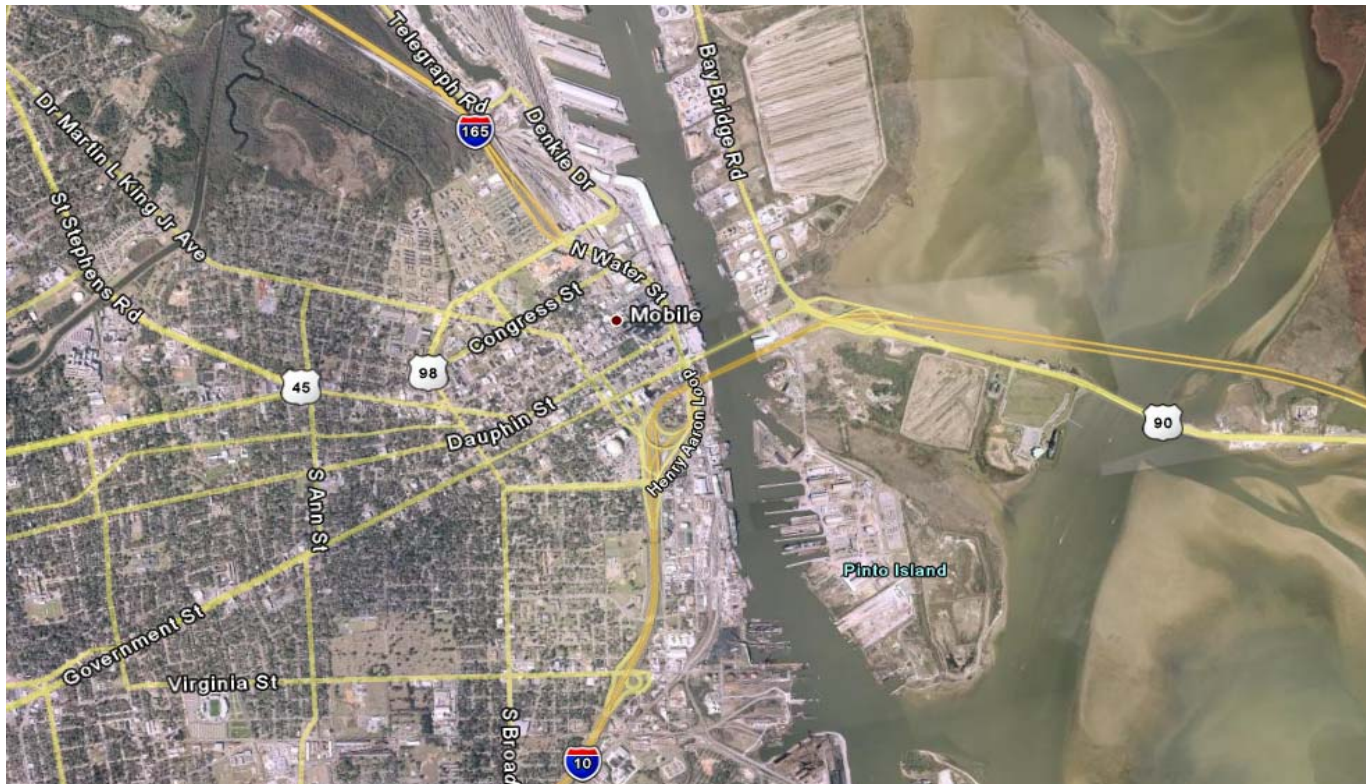
# Silent Inspector



# Introduction



# Issue – Stand up the Silent Inspector Center Silent Inspector Center USACE Mobile District Mobile, Alabama



# Silent Inspector

## Government Benefits

- **24x7 coverage of operations**
- **Flexible scheduling of human inspectors**
- **Fast response to public and environmental inquiries**
- **Faster dispute resolution**
- **Better government estimates**
- **Improved dredging management**



## Industry Benefits

- **National standard specifications**
- **National standards for automated reporting**
- **Reliable digital record of operations and performance**
- **Minimize disputes**
- **Faster dispute resolution**

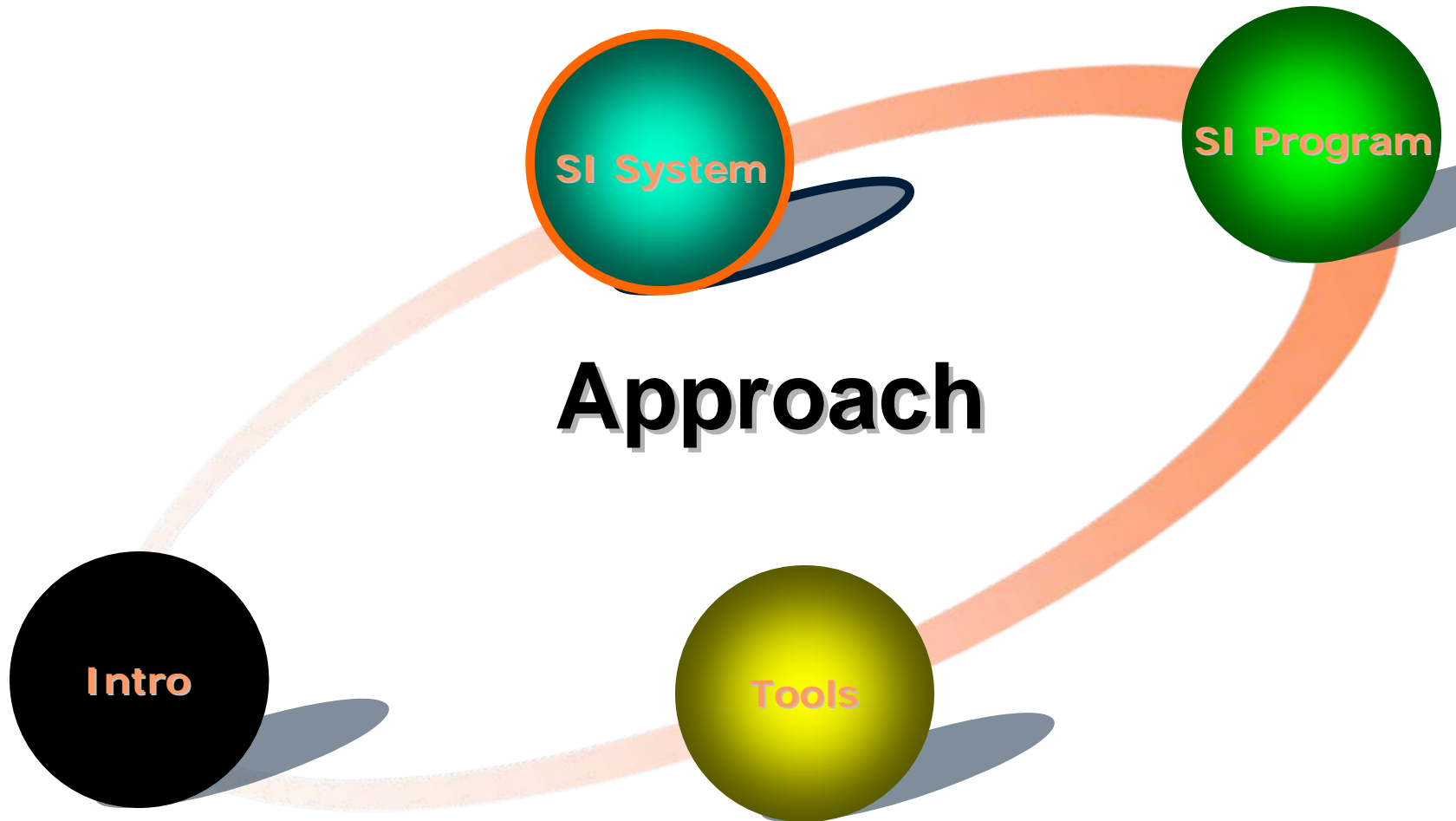


# Why Mobile District??

- 6 Years SI monitoring of contracts
- Successful SHOALS transition from R&D
- SI Synergy with eCoastal & eGIS
- Experience with Ops, R&D, & IM teaming
- Required IT infrastructure in place



# Silent Inspector System

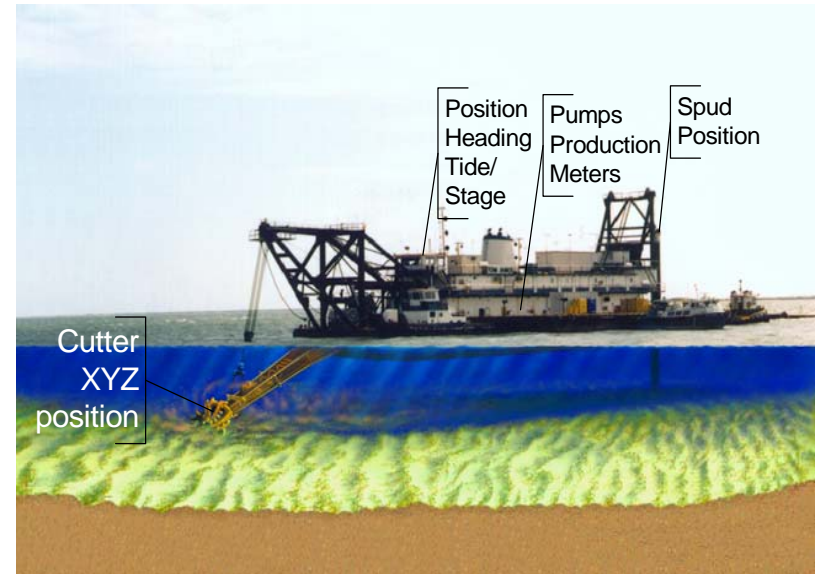
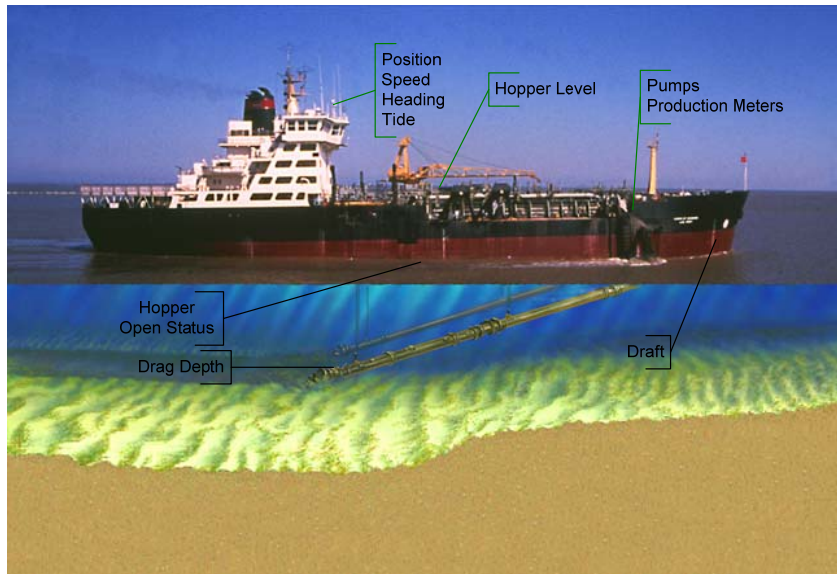


# Silent Inspector Board of Director Members

<b>Name</b>	<b>Affiliation</b>		
Fuller, Wynne	(Chairman) SAM	<b>HQ</b>	
Bossert, Vinton	MDC	Walker, Jim	HQ, CECW-OD
Carrubba, Sheryl	NWP		
Donohue, Catherine	NAD	<b>SI Center</b>	
Clark, KC	MVN	Allen, Brenda	CESAM-OP-J
Domurant, George	SPD	Culpepper, Eddie	CESAM-OP-J
Dyess, Carl	SAM	Howell, Gary	ERDC-SAM
Engle, Lance	MVS	Lenoir, Rhonda	ERDC-SAM
Godfrey, Chris	NAE	Lillicrop, Jeff	CESAM-OP-J
Hrametz, Joseph	SWG	Lillicrop, Linda	ERDC-SAM
Holliday, Barry	DCA	Rosati, Jay	ERDC-SAM
Linna, Chad	LRD	Welp, Tim	ERDC-CHL
Mitchell, Carsno	SWL		
Premo, Angela	SAD		
Russo, Edmond	ERDC		
Stupplebeen, Helen	POD		
Trott, Kathy	HQ, CECW-LRD		



# Silent Inspector System





# Personnel

Technical support / R&D – Jay Rosati

Training and Software Support – Rhonda Lenoir

Management and Technical Support – Gary Howell

Environmental / Regulatory – Linda Lillycrop

Program Manager – Eddie Culpepper

Engineer (Pipelines & Certifications) – Brenda Allen



# Silent Inspector Program



- Guide Specifications
- Training
- Certification
- Dredging Operations Support



# Training

<b>DIV</b>	<b>LOCATION</b>	<b>DATES</b>	<b>Participating Districts</b>
POD	Anchorage, AK	May 06	CEPOA
SWD	Galveston, TX	Jul 06	CESWG
SAD	Savannah, GA	Oct 06	CESAS
SAD	Jacksonville, FL	Oct 06	CESAJ
NAD	Baltimore, MD	Nov 06	CENAB, CENAO,CENAE,CENAP
SAD	Charleston, SC	Jan 07	CESAC, CESAW
NAD	Boston, MA	Feb 07	CENAE
LRD	Buffalo, NY	May 07	CELRB
LRD	Detroit, MI	May 07	CELRE
LRC	Chicago, IL	Aug 07	CELRC
SPN	San Francisco, CA	Sep 07	CESPN



# SI Support Certification



Certification Inspections

28 Scows

13 Hoppers





# Pipeline Deployment

Test SI on Govt. dredges Goetz and Potter. FY07.  
Port of Portland Dredge Oregon FY07

Test SI on several types of situations

1. Coastal/Ocean - Illinois.
2. Riverine - Goetz, Potter
3. Harbor - Oregon
4. Longline and New work - No work

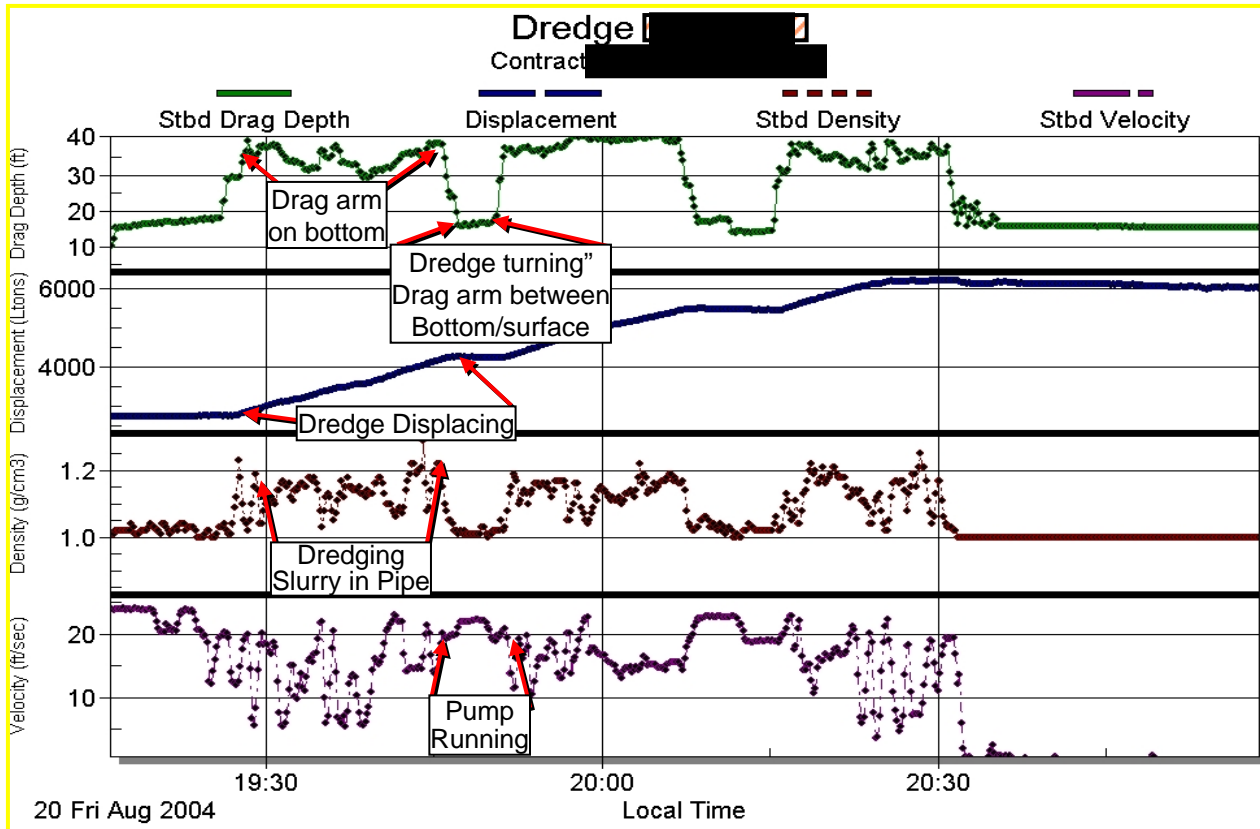


# Regulatory / Environmental



# Turtle Risk Assessments

SI Data Explorer



SI Data Explorer

File View Update About

Division: MVD District: MVN

Project View Contract View Resources

- Projects
  - Calcasieu River and Pass
    - Calcasieu Bar Channel
    - Lower Mississippi River
    - Southwest Pass
  - Contracts
    - W912P8-06-C-0127
      - Bid Items
      - Dredge(s)
        - Bayport
        - Newport
      - Assignments
      - Reports
        - Alarms
        - Manual Load Summary
        - Load Summary
        - Form27
        - Log Sheets
        - Disposal Plots
      - Disposal Area(s)
    - W912P8-06-C-0001
    - W912P8-06-C-0119
    - W912P8-06-C-0126

SI Plots

Hopper Dredge Data Plots

File Additional Info About

Project: Mouth of Columbia District: NWP

Channel: MCR - Entrance C

Contract Number: DACW57-03-C-0006

Dredge: Sugar Island

Time Axis: Determine Valid Date Range

Start Date/Time: 7/7/2003 10:13 Data Start Date = 6/28/2003

End Date/Time: 7/8/2003 10:13 Data End Date = 9/29/2003

Data Axis

Detailed Dredge Data	Load Data	Daily Data
<input type="checkbox"/> Fore Draft	<input type="checkbox"/> Water Depth	<input type="checkbox"/> Port RPM
<input type="checkbox"/> Alt Draft	<input type="checkbox"/> Tide	<input type="checkbox"/> Stbd RPM
<input type="checkbox"/> Draghead Depth Port	<input type="checkbox"/> Draghead Density Port	<input type="checkbox"/> Con. Empty Displacement
<input type="checkbox"/> Draghead Depth Stbd	<input type="checkbox"/> Draghead Density Stbd	<input type="checkbox"/> Load Number
<input type="checkbox"/> Draghead Elev. Port	<input type="checkbox"/> Draghead Velocity Port	
<input type="checkbox"/> Draghead Elev. Stbd	<input type="checkbox"/> Draghead Velocity Stbd	
<input type="checkbox"/> True Heading	<input type="checkbox"/> Material Recovery Port	
<input type="checkbox"/> Course - CDG	<input type="checkbox"/> Material Recovery Stbd	
<input type="checkbox"/> Speed	<input type="checkbox"/> Pumping Water Port	
<input type="checkbox"/> Fore Ullage	<input type="checkbox"/> Pumping Water Stbd	
<input type="checkbox"/> Alt Ullage	<input type="checkbox"/> Min Effort Port	
<input type="checkbox"/> X Position	<input type="checkbox"/> Min Effort Stbd	
<input type="checkbox"/> Y Position	<input type="checkbox"/> Hopper Open	
<input type="checkbox"/> Hopper Volume	<input type="checkbox"/> Pumpout	
<input type="checkbox"/> Displacement	<input type="checkbox"/> TDS	






# Ocean Disposal Monitoring Application (under revision)

SI Ocean Disposal GIS Basemap

Availability: Online

Open Map Data Dictionary



The mapping component of the SI Ocean Disposal Monitoring Application.

[Return to Top](#)

Silent Inspector  
Disposal Placement Monitoring

The Silent Inspector Disposal Placement Monitoring application allow authorized users from the US Army Corps of Engineers to monitor the ocean dumping activities of the dredge operators, run initial quality control queries, and produce reports to inform the Environmental Protection Agency (EPA) of dredge disposal activities. USACE Project Managers have the ability to provide quality control comments to applicable disposal loads.

To locate disposal actions outside of authorized disposal areas, begin by selecting search criteria below.

District: SAC CHARLESTON  
Date: 2/8/2007  
Vessel/Contract/Load#: N6002 / W912HN-06-C-0051 / 270  
Disposal Area: Charleston Harbor ODMDS -Site B

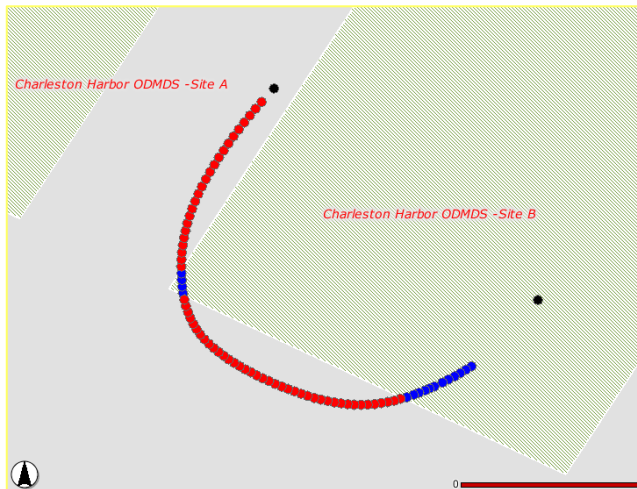
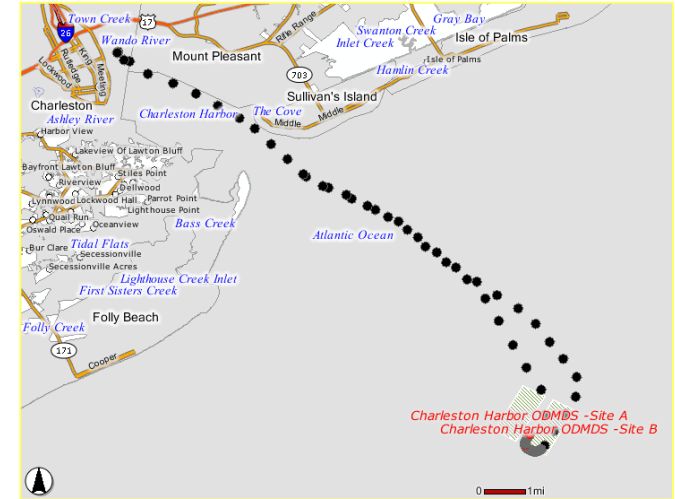
Back Track Plots Zoom To Bin Open

Login to Approve Data

Authorized Users Only: Log in to add comments

Points Legend

- Bin Closed Points
- Bin Open Points Falling Outside Selected Disposal Site without Comments
- Bin Open Points Falling Outside Selected Disposal Site with Comments
- Bin Open Points Falling Inside Selected Disposal Site
- All points in Load are Selected



Comments for Loads Outside the Disposal Area

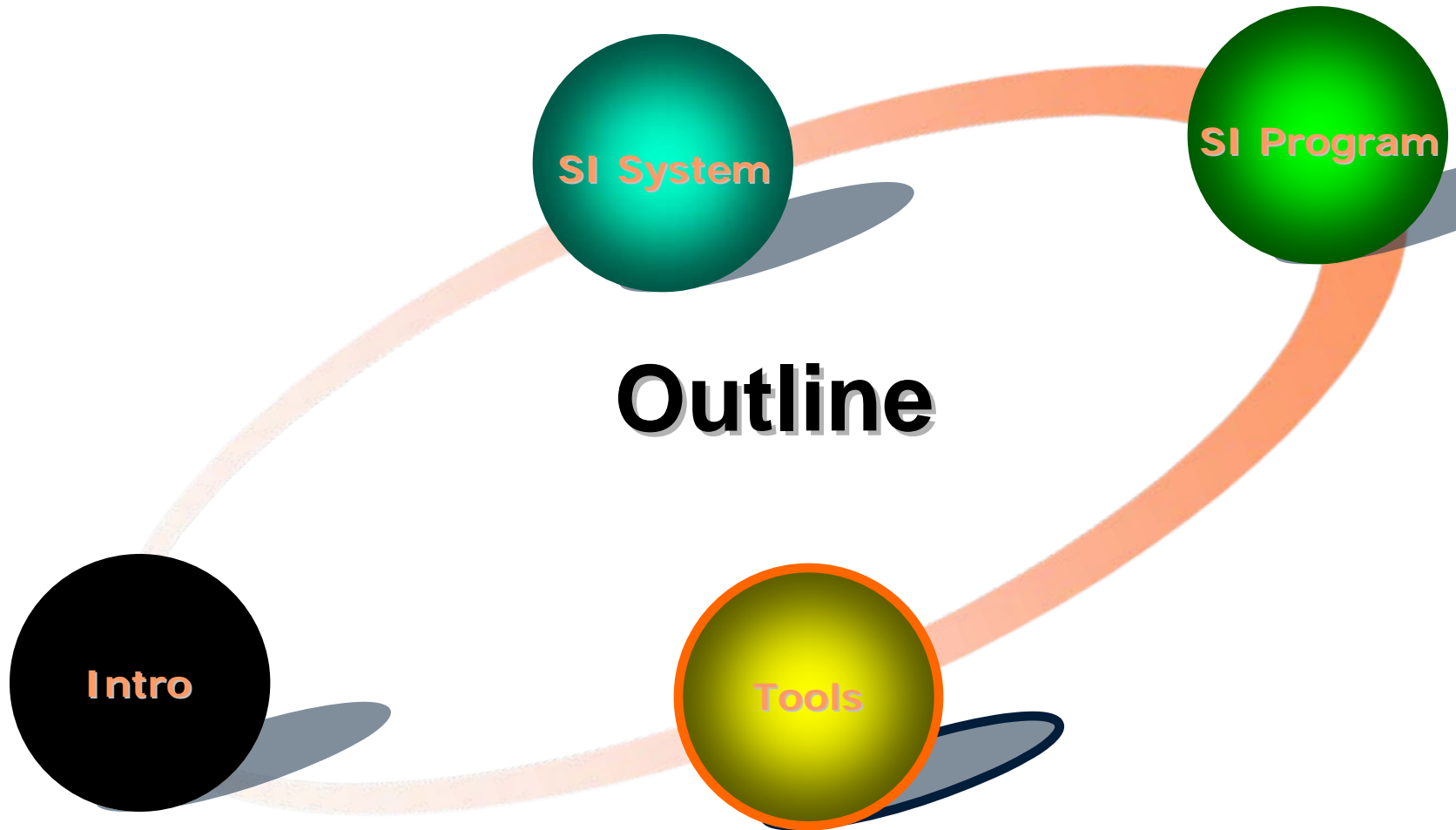
This information will be furnished to the EPA

Vessel: *Columbia* Contract #: *W91278-05-C-0003* Save

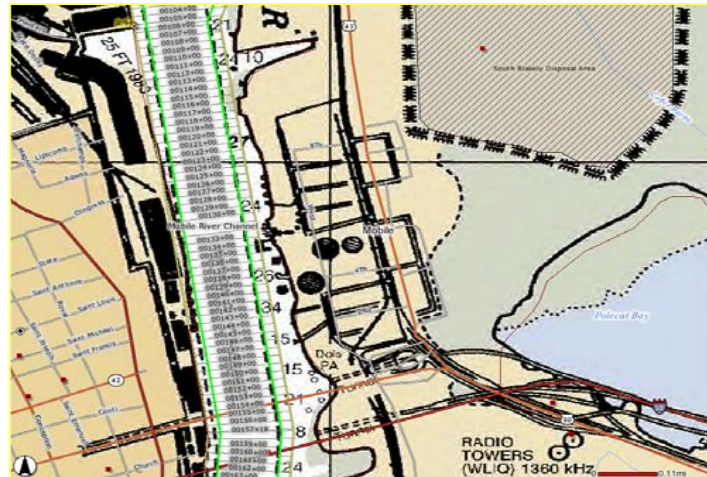
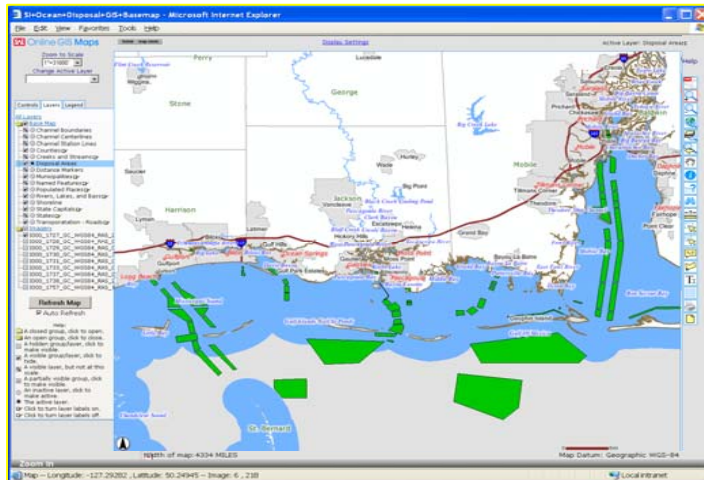
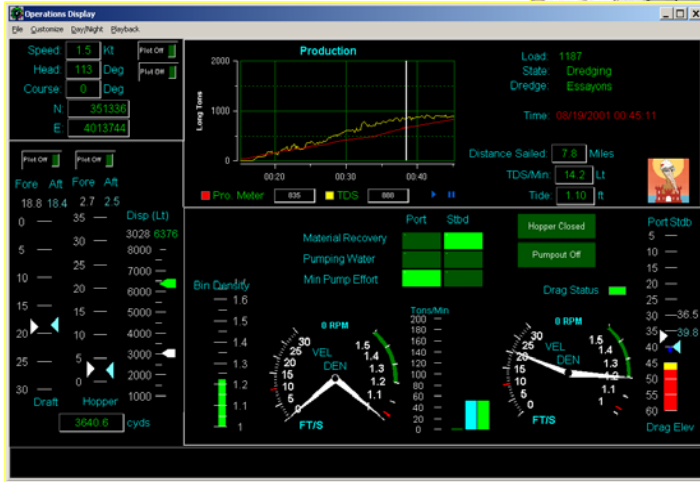
Save	ID	Release Option	Release Comments	Date	Load
<input type="checkbox"/>	1	Not Approved	-- Select a Comment -- OR test	9/19/2005 11:37:38 AM 9/19/2005 11:41:37 AM	538
<input type="checkbox"/>	2	Release	-- Select a Comment -- OR	9/23/2005 12:26:47 PM 9/25/2005 10:17:58 AM	547
<input type="checkbox"/>	3	Release	Equipment Problem OR	9/29/2005 6:00:31 AM 9/29/2005 6:01:34 AM	563



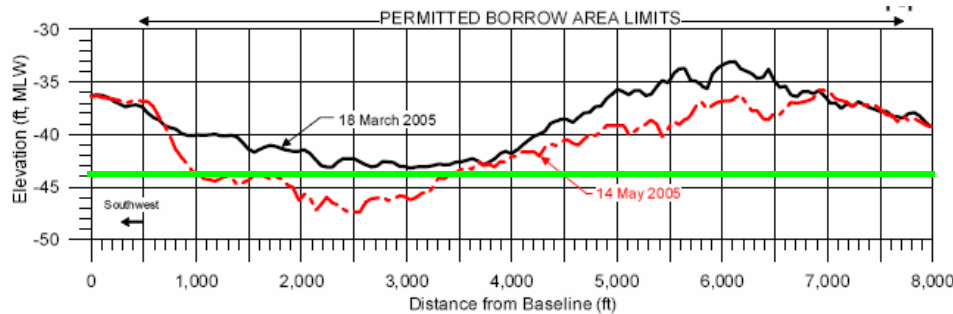
# Tools



# On-Board Dredge Viewer

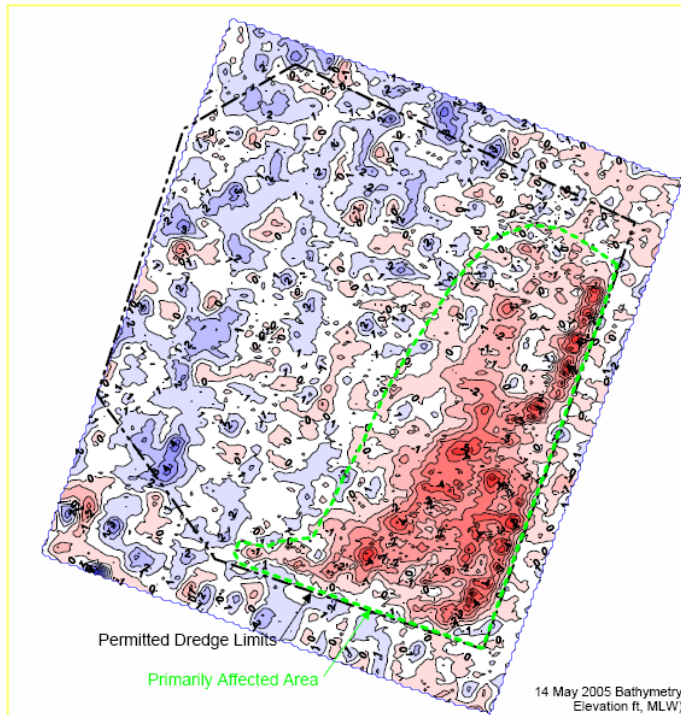


# Borrow & Disposal Area Monitoring(in work)

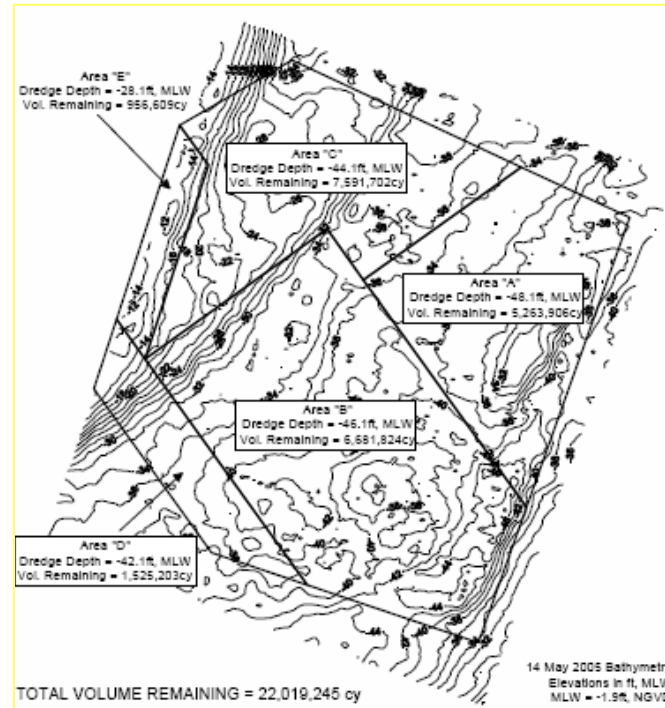


- Pre-Dredge Survey
- Cutterhead Depth
- Depth Limit

## Difference: pre-survey & excavation



## Volume Remaining



# Thank You



## Questions?

**James Rosati**

**Silent Inspector Support Team**

**[James.rosati.iii@usace.army.mil](mailto:James.rosati.iii@usace.army.mil)**

**251 441 5535**