

NATIONAL DREDGING QUALITY MANAGEMENT (DQM) PROGRAM

NATIONAL DREDGING MEETING
WASHINGTON, DC
MAY 2012

VERN GWIN
NATIONAL DQM CENTER



NATIONAL DQM 2012 PROGRAM UPDATE

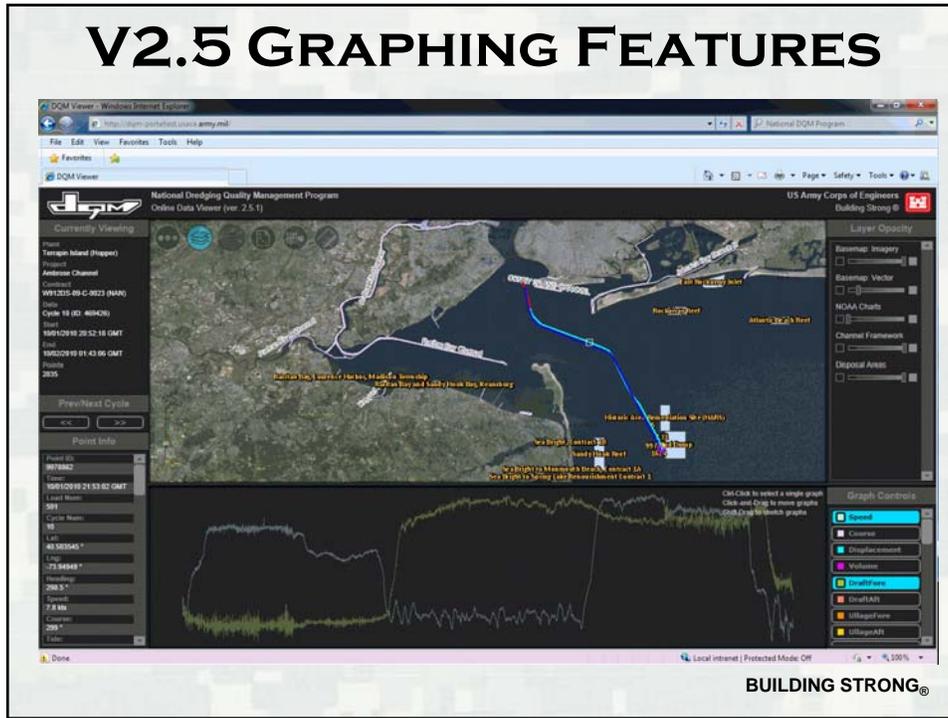


- 2012 Highlights
- New Initiatives
- Program Vision



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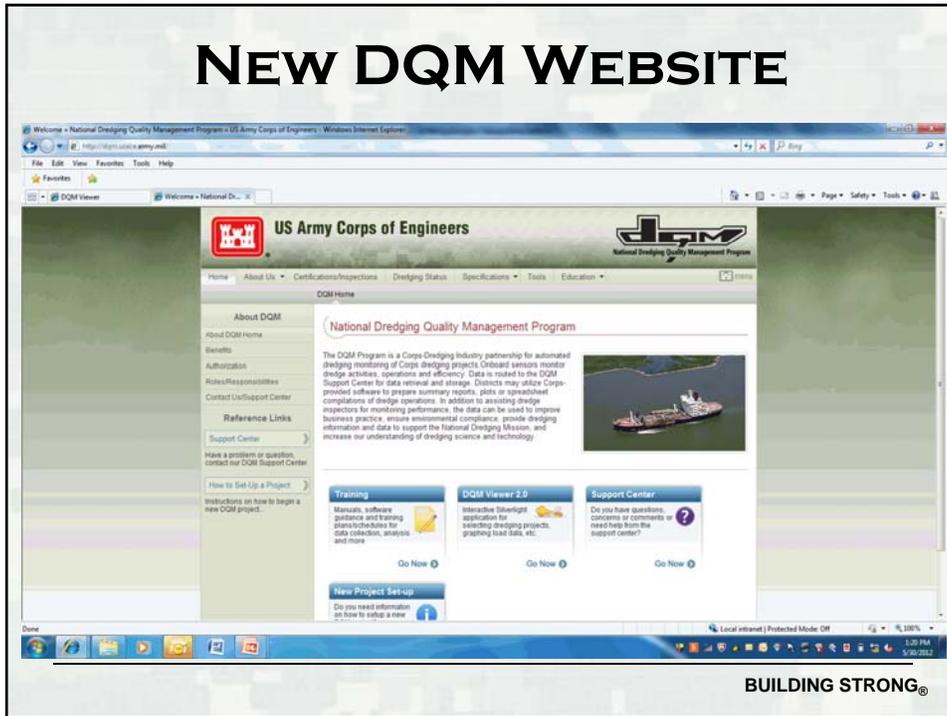
V2.5 GRAPHING FEATURES



V2.5 DETAILED DISPOSAL

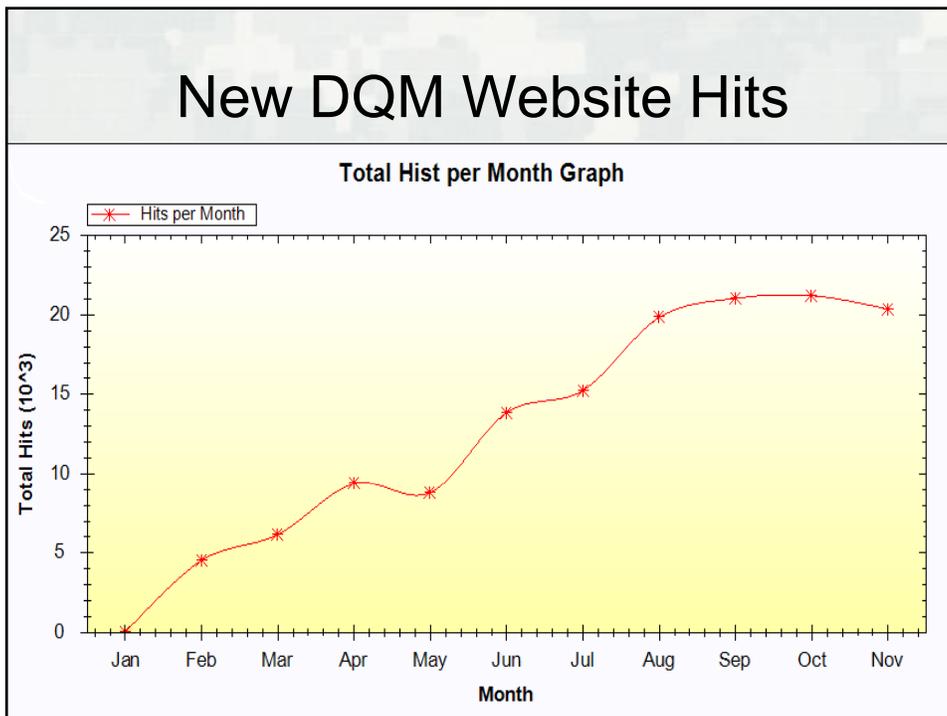


NEW DQM WEBSITE

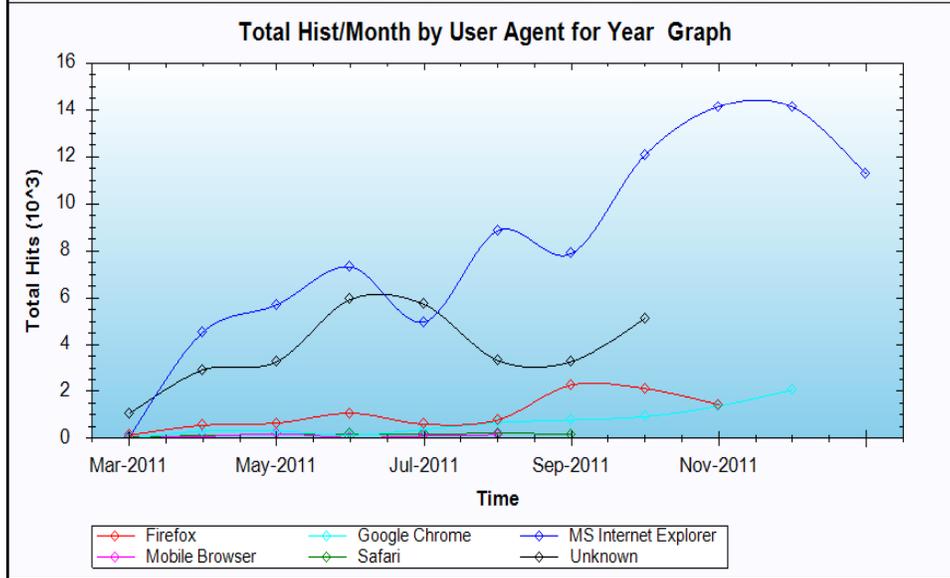


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New DQM Website Hits



Hits by browser type...



NEW INITIATIVES FY 12

- Cutterhead Monitoring Initial PDT Meeting
 - ▶ Initial PDT Meeting – National Coordination
 - ▶ Implementation Plan
 - ▶ Coordination with Industry
- Password Access and Automated Email Alerts
- Near Real-Time Data for Scows



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NATIONAL DQM PROGRAM ALL-REMOTE VISION



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ALL-MOBILE ACCESS



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THE NATIONAL DREDGING QUALITY MANAGEMENT PROGRAM

The DQM Program is a partnership between the Corps and the dredging industry for automated monitoring of dredge activities.

Onboard sensors provide near-real-time data that allows for immediate response to emerging situations.

Districts can use the web-based DQM software to view, analyze, report on, and export dredging data.

The data can be used to improve business practice, ensure environmental compliance, and increase our understanding of dredging science and technology.



<http://dqm.usace.army.mil> 1-877-840-8024

New Strategic Navigation Initiative

•Integrates efforts on... Dredging & Inland Waterways to Start...

Dredging Quality Management (DQM)
Resident Management System (RMS)
Dredging Information System (DIS)
Dredging Histories (DH), etc

River Information Services (RIS)
Lock Operations Management Application (LOMA)
IWR Multi-modal Effort, etc

•To maximize interoperability

•Improve one time data entry

•Facilitate Business Line Decisions and Work Flow



Benefits

- **Common Access**
- **Data Availability**
- **Decreased Time and Effort**
- **Data Timeliness**
- **Reduced Duplication of Data Entry**
- **Data Format**
- **Data Consistency**
- **User Friendly**
- **Data Purpose**
- **Increased Participation**



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Project Overview

• **Phase I** – Development of a Dredging Portal “front end” to the dredging databases—DH, DIS, DQM, and RMS– their connection to the portal, and each other, and the portal’s connection to the District’s Navigation and Coastal Data Banks

- Database Schema Review Meeting(s) – June
- Reverse Engineer a completed dredging project – July
- Dredging Portal Specifications – August/September

• **Phase 2** – Inland Waterways

• **Subsequent Phases** – Additional datasets, tools, and applications



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Proof of Concept

Mobile Dredging Schedule App:

The screenshot shows a web browser window displaying a page titled "DIS Planned Dredging Areas". The page content includes a header with navigation tabs (Home, About, Contact Us, Sign In), a main heading "DIS Planned Dredging Areas", a small image of a dredging site, and a "Description" section. The description text is partially visible and discusses the app's purpose. A red arrow points to a "W" logo in the bottom right corner of the browser window.

The screenshot shows a web browser window displaying a map of the United States. The map is titled "ArcGIS Explorer Online" and shows several yellow location markers across the country. The browser window title is "ArcGIS Explorer Online". A red arrow points to a "W" logo in the bottom right corner of the browser window.

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The screenshot displays the ArcGIS Explorer Desktop interface. The main map area shows a satellite-style view of a river system with several yellow circular markers indicating vessel locations. A legend on the left side lists various map layers, including 'Planned_Dredging_Projects', 'VESSEL_LOCATIONS', and 'National_Channel_Framework'. A pop-up window titled 'VESSEL_LOCATIONS: Bayport' is open over one of the markers, displaying the following information:

Value	Bayport
Vessel Type	Harbor
Channel Number	407
Channel Name	WIS29F-G-C-0029
Project Area	Middlesex River
Last Point Received	8/20/2012

At the bottom of the application window, the text '21' and 'BUILDING STRONG®' are visible.

Question/Comments?

The BUILDING STRONG logo, featuring a red square with a white castle icon, is located in the bottom right corner of the slide.