U.S. Navy – Hunters Point Shipyard (HPS) Web Portal

Tetra Tech EM Inc.

Presented by

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&
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Hunters Point Shipyard (HPS) is a 522-acre U.S. Navy facility in southeastern San Francisco. In 1986, the Navy began an environmental site remediation and cleanup program directed toward the eventual transfer of the site to the City of San Francisco.
Why a Portal?

- Enormous amounts of data
  - Time consuming to manage
  - Disorganized repositories
  - Data access

- Empower individuals and teams
  - Decisions
  - Project costs
  - Risks

- Value to organization
HPS Problem

• Data Access
  – Analytical records
  – Geographic information system (GIS) maps

• Decision Making
  – Needed to be timely
  – Required accurate information

• Document Processing
  – Publishing
  – Document management
HPS Problem

• Collaboration
  – Simultaneous ongoing projects
  – Different entities
  – Different geographic locations
  – Centralized access
  – Communication tools
  – Project management
Developing the Solution

• Implementation Scenario
  – Out-of-box solution
  – Customized development

• Advantages
  – Available, robust, and stable
  – Had many required features
  – Development focused on customized requirements
  – Proven software development management
  – Quality assurance process

• Portal Software
  – Powerful and flexible portal front end
Solution

- Development and Implementation Team
- Custom features
  - Workflow
  - Query tool
  - Mapping tool
  - Contacts
- Integration of various systems
- Testing and QA/QC process
  - Unit testing, system testing, and load testing
- Implementation
  - The solution and implementation scenario selected allowed Tetra Tech to implement a fully functional beta release less than 3 months after final requirements and the initial design documents were completed
HPS Web Portal

• Portal
  – a web-based information repository

• Functionality
  – Project management tools
  – Document collaboration
  – Communicate new developments
  – Project report status
  – Issues and problems
  – Querying
  – Mapping
HPS Users and Content
Role-Based Security

• Project role and security level control access to functions and information on the portal
  • Member of teams and projects
  • Collaborate on reports and projects
  • Upload documents.
  • Create teams and projects
  • Upload documents to the library
  • Access analytical data via the query tool
  • View analytical data in the mapping tool
  • Browse library
  • Create announcements
Project Management Tools

- Customizable home page
- Single web page
- Task management tool
- Project Calendar
- Team announcement tool
- Workflow tool
- Team directories
- Contact lists
“My page” is the starting page of the portal, and displays information aggregated and customized for an individual user.

Up to five “My Pages” can be created to meet individual needs.
Selecting Projects for My Page

- Get project updates directly into My Page by selecting the projects where access is allowed.

- Unless a project is selected, its information will not appear in My Page, despite one’s role in the project.
Projects Overview

• “Projects” allow for collaborative work, through:
  – Announcements
  – Calendars
  – Task lists and tasks
  – Documents
  – Subscriptions
  – Discussions
  – Project search
Project Search

- Use Project Search to quickly find documents, tasks, discussions, and other content inside a project.
- Type in one or more keywords, and click “Search”
- The drop-down box can limit searches to specific items.
- Search all projects or just the ones with an active role.
• Click on the “Discussions” link of a project page to view available discussions.
  - Discussions are about general topics.
  - Threads are a set of questions / responses / comments along a single line of thought.
The Calendar shows upcoming events, milestones and tasks for the project.

- Milestones have a single date and time. Use them for discrete deadlines.
- Events have a start date and time, and an end date and time. Use them for meetings and events with a preset duration.
Document Management/Collaboration Tools

• Requirements
  – Version tracking
  – Check-in and check-out
  – Searchable metadata
  – Document publishing controls
  – Workflow management
  – Searchable threaded discussions
  – Secure document access
Documents

- Projects allow the organization of “Documents” into Folders and Files similarly to Windows Explorer.

- Browse through folders, or use the project search engine, filtered for “Documents.”

- View information about documents in either a detail or summary view.

- Download and/or checkout documents.
Documents – Other Actions

- “View History” shows the versions a document has been through, who changed it, and when. It also allows viewing and downloading of older versions of a document.
- Task Lists can be assigned to documents and projects.
- Documents can be discussed with other team members.
  - There can only be one discussion per document.
  - Discussion can hold any number of “threads.”
  - Team members can subscribe to discussions so that they are notified by e-mail when there are new responses.

Security roles control access to these options.
Documents – View, Check-out

- Clicking on a document’s filename shows its details.
- “View the Document” or “Check out and download”
- Checking out a document will lock it on the portal, so that others can’t make changes to it until it’s checked back in.
- “Check out and Download” to obtain an electronic copy of the document.
- When revisions are complete, go back to the document’s details page and click on “Check in New Version” to upload it.
  - When checking in a new updated file, check-in comments are important for future reference.
A “Teams” page
Approval Workflow

- Customized functionality
- Allows project managers to participate in the complex document review process and versioning required for HPS documents
- Data is searchable for all deliverables at HPS by due date or responsible party.
Document Library/Archive

- Automated indexing
- Powerful search engine
- Full text search
- Customizable search options
- Flexible library document schema
  - Browse by category or subfolder
- Publishing controls
- Security
Simple Searching

- Can enter one or more keywords to search against
- The portal returns folder matches first, then file matches.
- If there are too many results, the user can try using more keywords, more specific keywords or the advanced search capabilities.
Advanced Searching

- Allows multiple “Search Requirements”
- Search for entries that match all requirements, or for all the files that match one or more of the requirements.
- Requirements can be set for text or any or all of the metadata details associated with the documents.
HPS Query Tool Requirements

• Requirements
  – Access to database
  – Queries - Create, Save, Edit, Personal, Public
    • Select filter criteria using selection options in the following categories: geographical, point, sample, analysis, chemical, and cleanup goals.

  – Reports
  – Downloadable
  – Results
HPS Query Tool

Welcome to the HPS Query Tool. This tool allows you to search for and analyze data related to the Hunters Point Shipyard. You can select from various query criteria to refine your search. The tool supports multiple selection criteria, allowing you to choose as many or as few as needed.

For example, you can select parcels, zones, reuse, sites, and excavation areas to focus your query. This flexibility helps you to efficiently find the information you need.

To use the tool, you can select different query content categories such as geographical data, point samples, analytical results, and cleanup goals. You can also view SQL statements, make clear choices, view query results, save your queries, and navigate through the tool.

For more information or assistance, please contact TetraTech EM Inc.
### Hunters Point Shipyard

**Query Name:** mamas.parslow_parcel_b_MW_metals

*The number of record is 15215.*

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Web GIS requirements

- GIS functions
- Data layers
- Results by chemical concentration
- Most commonly requested
- Aerial photography layers
- Access to common queries
- Multiple select tools with hyperlink
Web GIS Mapping Tool

- Web-enabled GIS application
  - Electronic map base
  - Spatial layers
  - Panned and zoom
- Predefined Maps
- Ad hoc Maps
- Portable document format (PDF)
Query Tool Results in Graphical Format
Predefined Map

PCB_soil Map

Legend
- Soil Boring
- Removal Location
- Monitoring Well
- Surface Soil Sample
- Trench/Test Pit
- Core Sediment Sample for ERA
- Intertidal Sediment Sample
- Tissue Station for ERA
- PCB in Soil Point Name

- Parcel Boundary
- San Francisco Bay
- Building
- Large Paved Area
- Road
- Unpaved Area

Active Layer:

Coords Easting, Northing: 1451392.60, 495519.46 Feet
Predefined maps consisting of an aerial photograph of the site are activated when the user zooms in to a particular scale.
The Parcel Map

- The parcel map is a quick way to access the “Basewide HPS” projects.
Benefits of Solution

• Increased productivity
• Reduced costs
• Increased security
• Better project management and communication