ENS Assistance Options

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US Army Corps of Engineers
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USACE Aquatic Invasive Species Research Programs

Aquatic Plant Control Research Program

HQ Program Manager: Mr. Jeremy Crossland
EL Technical Director: Dr. Al Cofrancesco
EL Program Manager: Dr. Linda Nelson

Aquatic Nuisance Species Research Program

HQ Program Manager: Mr. Joe Wilson
EL Technical Director: Dr. Al Cofrancesco
EL Program Manager: Dr. Linda Nelson

Research Program Goals

- Provide science-based guidance on the use of new technologies for detecting, managing, preventing, and monitoring aquatic invasive species that impact Corps projects
- Reduce impact of aquatic nuisance species on Corps operations and infrastructure
- Reduce impact of aquatic nuisance species on T&E species
- Reduce O&M expenditures associated with aquatic invasive species management
- Develop solutions regarding aquatic nuisance species based on field needs





Aquatic Nuisance Species Research Program

- Authorization:
  - Non-indigenous Aquatic Nuisance Prevention & Control Act, 1990
    - Zebra Mussel Research Program (1990-1995)
  - National Invasive Species Act, 1996
- Primary R&D program to address aquatic invasive species that impact navigable waters, infrastructure and associated water resource projects
- Funding Source: O&M
- Research Requirements: Generated by USACE-HQ, Corps' Invasive Species Leadership Team, Environmental SONs
- Current Focus Areas: invasive fish and mussels

Aquatic Plant Control Research Program

- Authorization:
  - River and Harbor Act (Section 104), 1958, as amended
  - Only federally authorized R&D program for aquatic plant management
- Develops effective, economical, and environmentally compatible strategies for assessing and managing invasive aquatic plant problems
- Funding Source: CG
- Research Requirements: Generated by USACE-HQ, Corps' Invasive Species Leadership Team, Environmental SONs
- Current Focus Areas:
  - Biological Control
  - Chemical Control
  - Ecological Assessment
  - Management Strategies & Applications
  - Harmful Algae

Aquatic Plant Control Research Program

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  - Ecological Assessment
  - Management Strategies & Applications
  - Harmful Algae

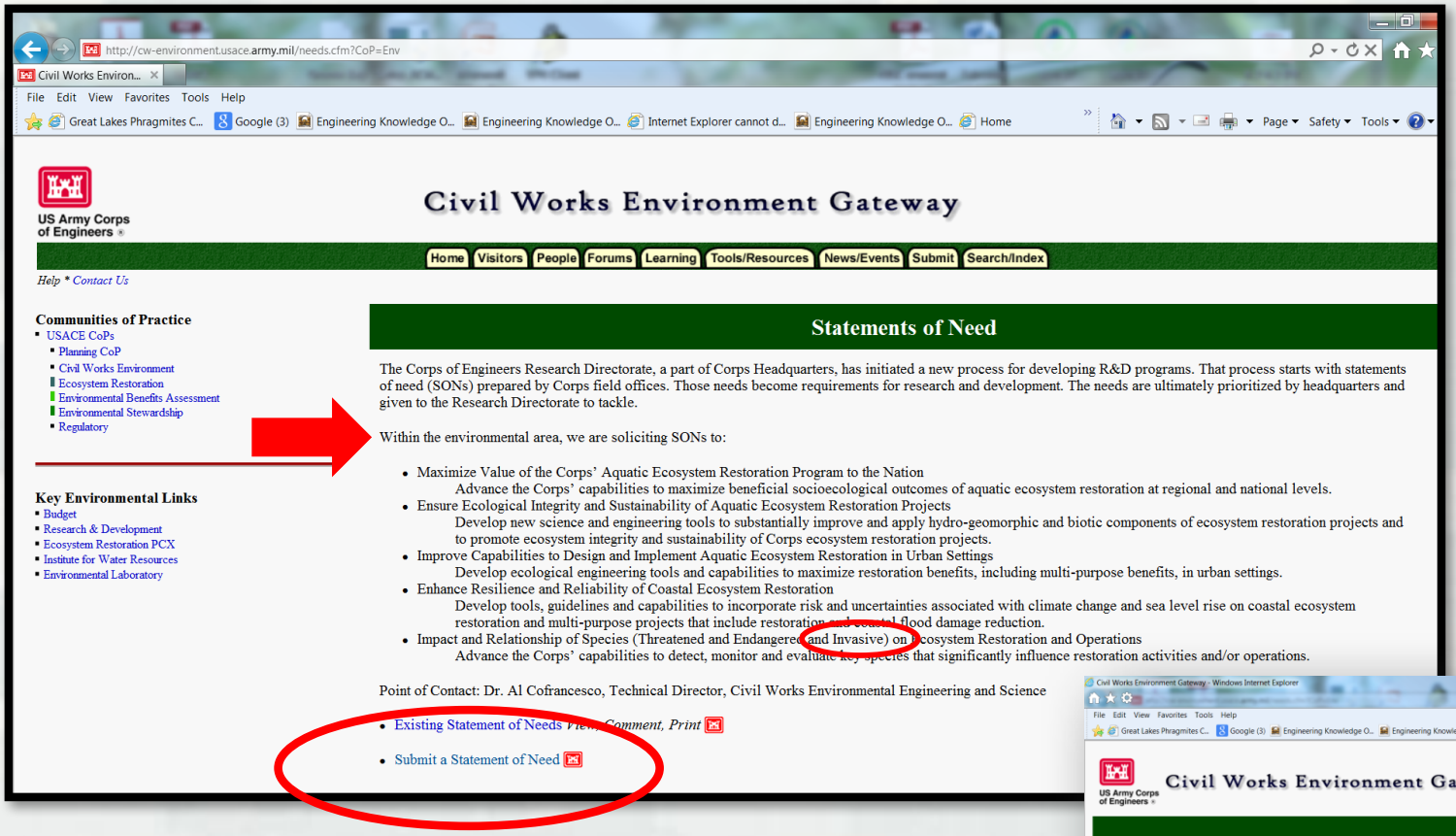
Ecosystem Management & Restoration Research Program

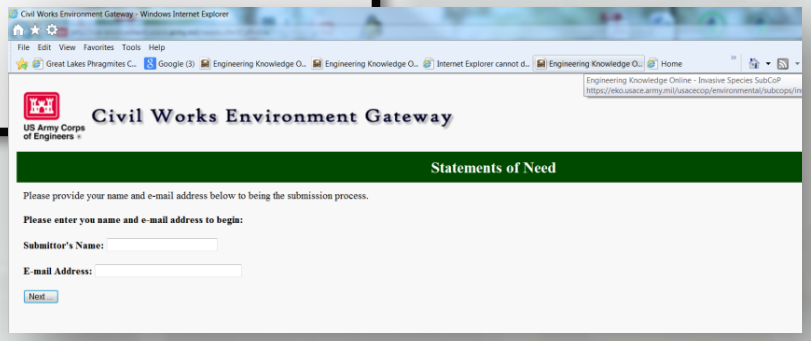
- **Authorization:**
  - ERDC R&D Authority (10 U.S.C. 2358)
- **Provides tools and technologies to meet R&D needs for functional assessment, restoration, environmental benefits assessment and stewardship of high-priority ecosystems**
- **Funding Source: GI**
- **Research Requirements: Generated by USACE-HQ, SONs submitted by Dist/Div, Environmental Research Area Review Group (eRARG), and Environmental Community of Practice (eCoP)**
- **Current Focus Areas:**
  - Value/valuation of ecosystem restoration projects
  - Ecological integrity and sustainability
  - Resilience of inland and coastal aquatic systems
  - Management of T&E and Invasive Species in Ecosystem Restoration Projects
  - Assessing multi-purpose role, function and design of ecological infrastructure

Get involved…

Submit a “Statement of Need” for R&D

-NRM Gateway – Invasive Species Page





Writing a Statement of Need (SON)

- Use the SON template
- Clearly identify the problem and impact to USACE Mission
- Identify extent of the problem; national or regional focus carries more weight
- Identify yourself – USACE POC, provide contact information
- Identify expected outcome/product if possible (e.g., report, BMP, database, model, tool, etc.)
- Review the list of “Existing/Archived SONs”

Water Operations Technical Support WOTS

Technical Assistance

- The program provides technology to solve water management and related environmental problems resulting from the presence of nonindigenous aquatic species and tailwater fisheries at pump-back hydropower projects.
- The program also examines water management impacts of shoreline erosion control and reservoir sedimentation, and other project operations related to environmental and water management issues.

Procedure

- The assistance request should name the project, state the nature of the problem, and describe the type of assistance required.
- The request should identify a point of contact, telephone number, and e-mail address.
- If a technical person at the ERDC has been contacted and has knowledge of the problem, a request for that individual may be expressed in the request.
- Upon receipt, each request will be directed to the proper ERDC technical staff member for response.
- Direct technical assistance under the WOTS Program is provided at no cost to the user and is limited to 5 man-days, including travel.

Water Operations Technical Support WOTS

Contact

- Requests for Direct Technical Assistance should be e-mailed to Patrick Deliman, Program Manager (Patrick.N.Deliman@usace.army.mil).
- Website: http://el.erdc.usace.army.mil/wots/wots.html

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Invasive Species Leadership Team

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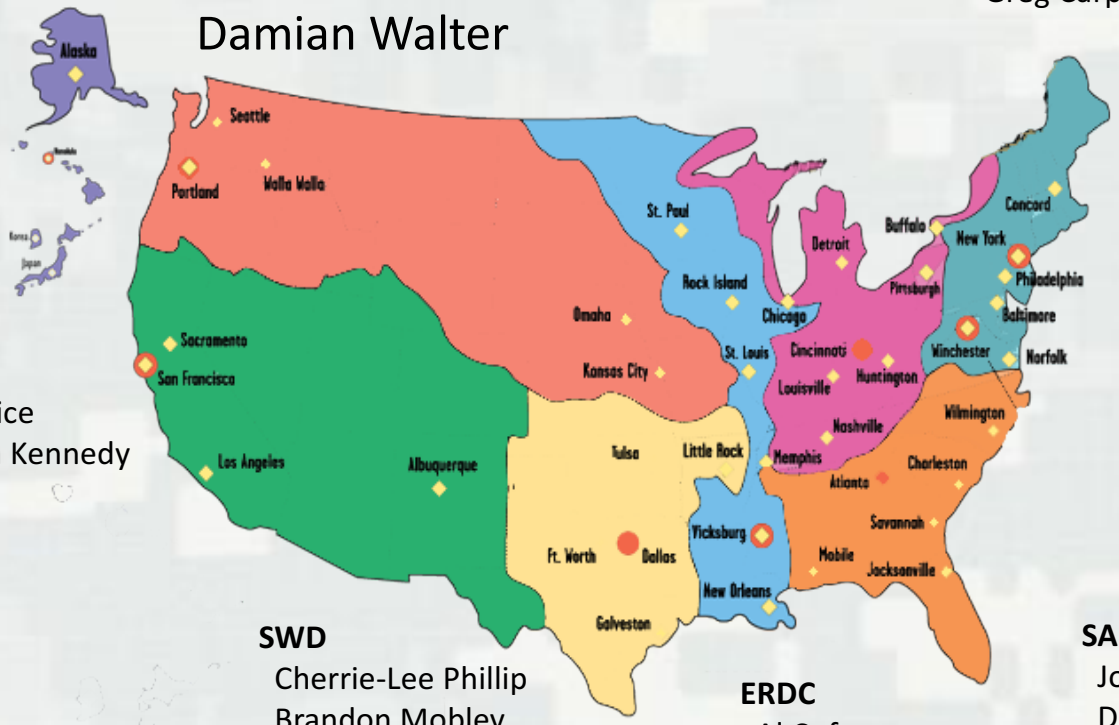

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Aquatic Plant Control Operation Support Center

Located in Jacksonville District within the Operations Division

Capabilities include assisting USACE Districts with:

- Development of management plans that include existing conditions, target species, management strategies, annual maintenance & cost estimates.
- Utilization of in-house SAJ personnel to conduct invasive species treatments (Early Detection & Rapid Response).
- Survey projects to identify target species for initial treatments and to ensure required maintenance is completed.
- Conduct QA for in-house as well as other agency contracts.
- Develop specifications & performance work statements for management of vegetation as well as for vegetation restoration.
- Utilize a state/region wide contract to conduct vegetation management & restoration activities.

Questions?

Thank you….