US EPA Region 9 Emergency Response Program Geospatial Tools



Timely and Accurate Situational Awareness for Preparedness, Effective Decision-Making and Rapid Response

COPs, Viewers and Real-Time Field Data Collection

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Health and Safety

Land and Cleanup

Pesticides

Waste

Water

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t, Region 9

, Hawaii, Nevada, Pacific Islands, Tribal Nations

You are here: EPA Home » Pacific Southwest » Disasters & Emergencies » Emergency Response

Emergency Response

EPA Region 9's Emergency Response Program – with federal on-scene coordinators (FOSCs) based in San Francisco and Signal Hill, California, and Carson City, Nevada – responds to environmental disasters, hazardous materials releases, and inland oil spills that threaten human health and/or the environment.

Other duties include participating in emergency preparedness drills, and counterterrorism drills and planning. The EPA's Emergency Response Section assists other federal, state, tribal and local governments when an emergency requires additional resources and expertise.

Reporting Oil or Chemical Spills



Sampling drums

The top priority of EPA's emergency response program is to eliminate any danger to the public and the environment posed by hazardous substance releases and oil spills. To help fulfill this mission, EPA requires that the person or organization responsible for a release or spill notify the federal government when the amount reaches a federally-determined limit. EPA has established reporting requirements for hazardous substance releases and oil spills to identify when the federal

Emergencies

Report oil or chemical spills at 800-424-8802

To contact a Region 9 Duty Officer for oil or chemical spills in Arizona, California, Nevada, Hawaii and the Pacific Islands please call (800) 300-2193. This number is staffed 24 hours per day, 7 days per week.

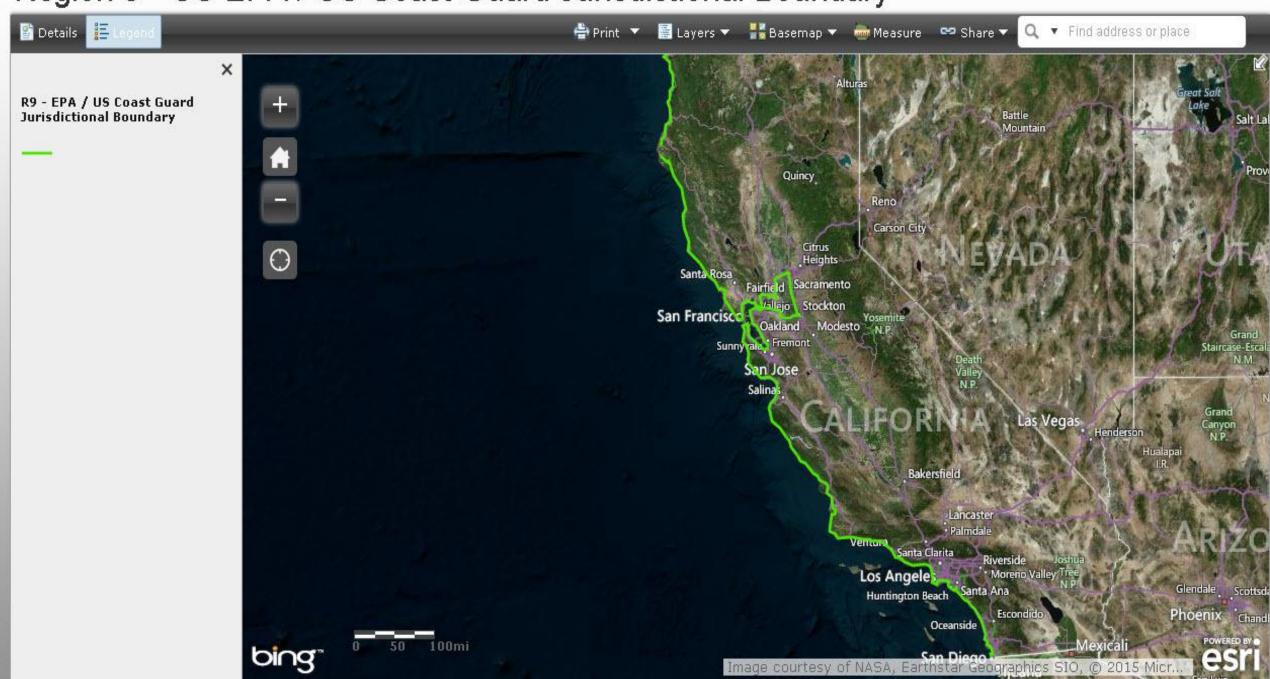
National Links

- EPA National Emergency Response Home
- EPA's On-Scene Coordinator
 Home
- EPA National Contingency Plan Overview

government should be notified. States also may have separate reporting requirements. All it takes is a single telephone call to the National Response Center at 1 (800) 424-8802.

Emergency Response & Removal Sites

Region 9 - US EPA / US Coast Guard Jurisdictional Boundary





Home

Web Sites

WebEOC

Training

Equipment

Health & Safety

OSC Directory

Links & Resources

EPA OSC Website



EPA On Scene Coordinator (OSC) WebSite

Welcome to the EPA OSC WebSite. This site is intended to be a resource for EPA OSCs to access, track and share information with OSCs throughout the country. (more...)

News

Voluntary Exercise Program (VEP) for On-Scene Coordinators and designated Special Team Members

The Voluntary Exercise Program (VEP) is established for EPA On-Scene Coordinators (OSCs) and designated Special Teams Members (STs) to maintain and improve their overall mental and physical state of readiness through regular physical conditioning so that they can safely perform their assigned job duties and to reduce the probability and severity of occupational injuries and illnesses. Please visit www.epa.osc.net/vep for additional information.

Please see the documents section of the website for the following:

Name	City	State	Updated	
CES Environmental Services, Inc.	Houston	TX	2/26/2015	
Mansfield VOC Plume	Mansfield	ОН	2/25/2015	
ERT Standard Operating Procedures	Edison	NJ	2/25/2015	
Jacamar Fire Response	Springboro	ОН	2/25/2015	
CSX Mt. Carbon Crude Derailment	Mt. Carbon	WV	2/25/2015	

OSC Task Force

The OSC Readiness Task Force was originally created in 1982. The Task Force comprises 2 OSCs from each Region (serving 3-year terms), plus Removal Manager and Headquarters representatives.

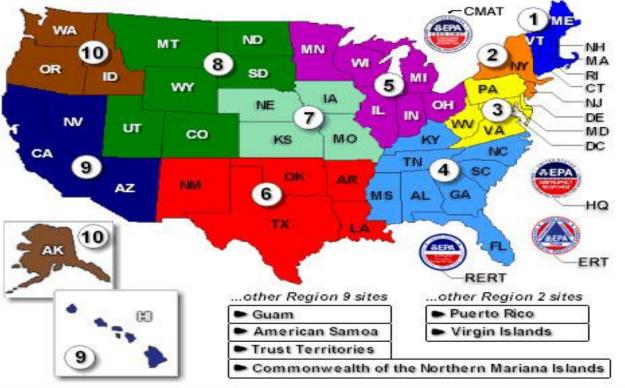
The OSC Task Force has put together a **Toolbox Guide** to assist EPA On-Scene Coordinators (OSCs) and Federal Classification Series (FCS) 1102 Contracting Officers (COs) by outlining the general procedures for the acquisition of goods and services required to respond to certain environmental releases, threats and/or discharges.

Blue Book

A collection of field related resources

Home Web Sites WebEOC Training Equipment Health & Safety OSC Directory Links & Resources

Select a Region to see a list of Web Sites or List All Web Sites



Name	City	State	Updated 2/26/2015 2/25/2015	
CES Environmental Services, Inc.	Houston	TX		
Mansfield VOC Plume	Mansfield	ОН		
ERT Standard Operating Procedures	Edison	NJ	2/25/2015	
<u>Jacamar Fire</u> Response	Springboro	ОН	2/25/2015	
CSX Mt. Carbon Crude Derailment	Mt. Carbon	W	2/25/2015	

Region 1	Region 4	Region 7	Region 10	RERT
Region 2	Region 5	Region 8	ERT	CMAT
Region 3	Region 6	Region 9	HQ	

Home	Web Sites	WebEOC	Training	Equipment	Health & Safety	OSC Directory	Links & Resources

S

Categories

WebEOC



WebEOC

WebEOC is a web-based crisis management system designed for supporting the ICS method of response management for significant incidents, in addition to providing a unique toolset for supporting Daily Operations in the Regional Response Centers and the HQ Emergency Operations Center.

ERT is supporting the implementation of the WebEOC system by all the regions and HQ. Demonstration and training on WebEOC is being provided as part of an ERT initiative to present the RRC Workflow concept to the regions and HQ.

Login to WebEOC (Please set your browser to enable pop-ups for WebEOC)

Supported Browsers and Devices

WebEOC is best viewed with Internet Explorer v8.0 or higher. Other supported browsers include Chrome, Firefox and Safari. Mobile devices supported include the iPad, iPhone and Android browsers.

Note - Pop-ups must be allowed for this website or you will not be able to login, and boards will not function properly. You must also allow cookies. See your Computer Administrator if you require assistance with these settings. For the iPad/iPhone using Safari, you can enable pop-ups by selecting Settings | Safari | uncheck "Block Pop-ups".

For more information regarding WebEOC, please see the WebEOC User Guide

ERT Software Support: 800-999-6990

Email: ERTSupport@epa.gov

Related Links

ESI WebSite

HOME GALLERY MAP SCENE GROUPS MY CONTENT MY ORGANIZATION



Q

ONE **SEPA**Workplace GeoPlatform



EPA Home | Privacy and Security Notice | Comments and Suggestions | Contact Us

EPA Featured Maps



EPA International Programs



Map: NEPAssist



EPA Map of Tribal Areas



Facilities Covered by the Rule

Welcome to the EPA GeoPlatform Online!

The GeoPlatform Online is EPA's instance of ArcGIS Online and provides mapping, analysis, and collaboration capabilities to EPA staff, contractors, and partners.

You can use the EPA GeoPlatform Online to create maps and applications along with accessing geospatial information and tools provided by other users. Please refer to the informational links below to get started with EPA GeoPlatform Online.

For more information on how to use EPA GeoPlatform Online, be sure to:

- Read about accessing EPA GeoPlatform Online;
- · Learn about training resources;
- · Access Esri's online help for making maps; and
- Contact EPA Geospatial support staff.

Bill -





Show

All My Groups

Owned by Me Owned by Others With New Membership Requests

You are a member of 9 group



ER Geoviewer Gallery

Emergency Response Flex Geoviewers created by Region9_EPA on May 27, 2014





GUAM

Geospatiai gată and maps supporting Region 9 Emergency Response Activities. created by Region9_EPA on September 25, 2012





R9 Internal

Maps and data from Region 9 in the GeoPlatform that are for internal EPA use only. created by Region9_EPA on June 5, 2012







Applications developed primarily for mobile access. created by Region9_EPA on September 24, 2012

Details

P3



Maps and data from Region 9 in the GeoPlatform that are share-able with the public. created by Region9_EPA on April 16, 2012

Details



Region 9 Testing

EPA Region 9 GIS Center Group within the GeoPlatform used for testing. created by Region9_EPA on May 30, 2012





Tern Island

Contains maps and files related to EPA work on Tern Island created by Region9_EPA on September 3, 2014



Find...

The organization's groups

The organization's groups that are public

Q

Featured Groups

Land & Cleanup

Pesticides, Chemicals and Toxics

Waste

Title ▲ Owner Rating Views Date

Group Details

Region9_EPA

Status: organization

Contributors: All members

4 LEAVE THIS GROUP

Geospatial data and maps supporting Region 9 Emergency Response Activities. ₹

Group Content

All Results Maps

Common Operating Picture V5-E

HQ EOC COP

Web Map by Region9_EPA

Last Modified: February 20, 2014

(0 ratings, 0 comments, 16 views) Open ▼ Details



Lake Tahoe Geographic Response Plan

Lake Tahoe Geographic Response Plan for EPA Region 9

Web Map by Region9_EPA

Last Modified: May 27, 2014

(0 ratings, 0 comments, 19 views)



Lower Colorado River Geographic Response Plan V5-E

Lower Colorado River Geographic Response Plan map

Web Map by Region9_EPA

Last Modified: February 25, 2014

(0 ratings, 0 comments, 79 views)



Oakland Estuary V2-E

Version 2

Web Map by Region9_EPA

Last Modified: February 24, 2014

(0 ratings, 0 comments, 9 views)

Q

Group Details Region9_EPA

<u>Title</u> ▲ Owner Rating Views Date

Status: organization Contributors: All members 4 LEAVE THIS GROUP

R9 Mobile

Applications developed primarily for mobile access. ₹

Group Content

All Results

Maps



HOODSurveyBoundary

(0 ratings, 0 comments, 23 views)



Removals View-Copy

Removals for EPA Region 9

Web Map by Region9_EPA

Last Modified: July 16, 2013

(0 ratings, 0 comments, 2 views)



West Oakland Removal View V2

West Oakland Removal View for EPA Region 9 V2

Web Map by Region9_EPA

Last Modified: December 20, 2012

(0 ratings, 0 comments, 12 views)



West Oakland Removal View-Copy

West Oakland Removal View for EPA Region 9

Web Map by Region9_EPA

Last Modified: July 11, 2013

(0 ratings, 0 comments, 16 views)

Title Owner Rating Views Date▼

Q

Q R9 Public

4 LEAVE THIS GROUP

Group Content

All Results

Title A Owner Rating Views Date

Group Details

Region9_EPA

Status: public

Contributors: Only group

4 LEAVE THIS GROUP

EPA Region 9 GIS Center Group within the GeoPlatform used for testing. ₹

Group Content

All Results

Maps

Guam Common Operating Picture 2015 V2 Edit



Web Map by swift.andrew_EPA7

Last Modified: January 28, 2015

(0 ratings, 0 comments, 5 views)



Guam Common Operating Picture 2015

This map presents data relevant to emergency response in Guam. It includes data on potential pollutant and spill sources, infrastructure, and economically sensitive resources.

🔣 Web Map by tangestani.mo_EPA

Last Modified: January 27, 2015

(0 ratings, 0 comments, 51 views)



GRP Sensitive Sites v2

Testing Guam field tool

Web Map by walrath.alexandra_EPA

Last Modified: January 22, 2015

(0 ratings, 0 comments, 1 view)



HAWAIIAN ISLANDS NATIONAL WILDLIFE REFUGE: TERN ISLAND

Imagery of Tern Island

Web Mapping Application by Yarnell.David_EPA

Last Modified: January 16, 2015

(0 ratings, 0 comments, 575 views)

1 2 3 4 ... 12 NEXT

Group Details

Region9_EPA Status: private

Contributors: All members

BayArea PCBs-Copy

Marine Debris Observations

Web Map by tangestani.mo_EPA

Last Modified: July 15, 2014

RCRA Corrective Action in CIMC

(0 ratings, 0 comments, 78 views)



Maps and data from Region 9 in the GeoPlatform that are share-able with the public. ₹

RCRA Corrective Actions: RCRA Corrective Action (CA) Sites are facilities that are on EPA's 2020 Corrective Action Baseline to be cleaned up under the Corrective Action program ...

Map Image Layer by jadams1_EPA

Last Modified: February 8, 2015 Open ▼ Details

*** (1 rating, 0 comments, 128 views)



Region 9 - US EPA / US Coast Guard Jurisdictional Boundary

Boundary along the California coastline that defines the jurisdiction between the US EPA and the US Coast Guard in the event of an emergency response activity.

Web Mapping Application by Region9_EPA

Last Modified: March 21, 2014

(0 ratings, 0 comments, 57 views)



San Francisco Bay Area Baseline Trash Loading Estimate (Feb 2012)

This map shows the annual estimated amount of trash discharged through each city and county storm sewer system.

Web Mapping Application by Region9_EPA

Last Modified: December 4, 2012

*** (0 ratings, 0 comments, 116 views)

Login Screen



You are accessing a U.S. Government information system, which includes: (1) this computer, (2) this computer network, (3) all computers connected to this network, and (4) all devices and storage media attached to this network or to a computer on this network. This information system is provided for the U.S. Government-authorized use only. Unauthorized or improper use of this system may result in disciplinary action, as well as civil and criminal penalties. By using this information system you understand and consent to the following: You have no reasonable expectation of privacy regarding any communications or data transiting or stored on this information system. At any time, the government may for any lawful government purpose monitor, intercept, search and seize any communication or data transiting or stored on this information system. Any communications or data transiting or stored on this information system may be disclosed or used for any lawful government purpose. By continuing to access this information system, you acknowledge, you understand and you consent to the above terms.

🗹 I agree

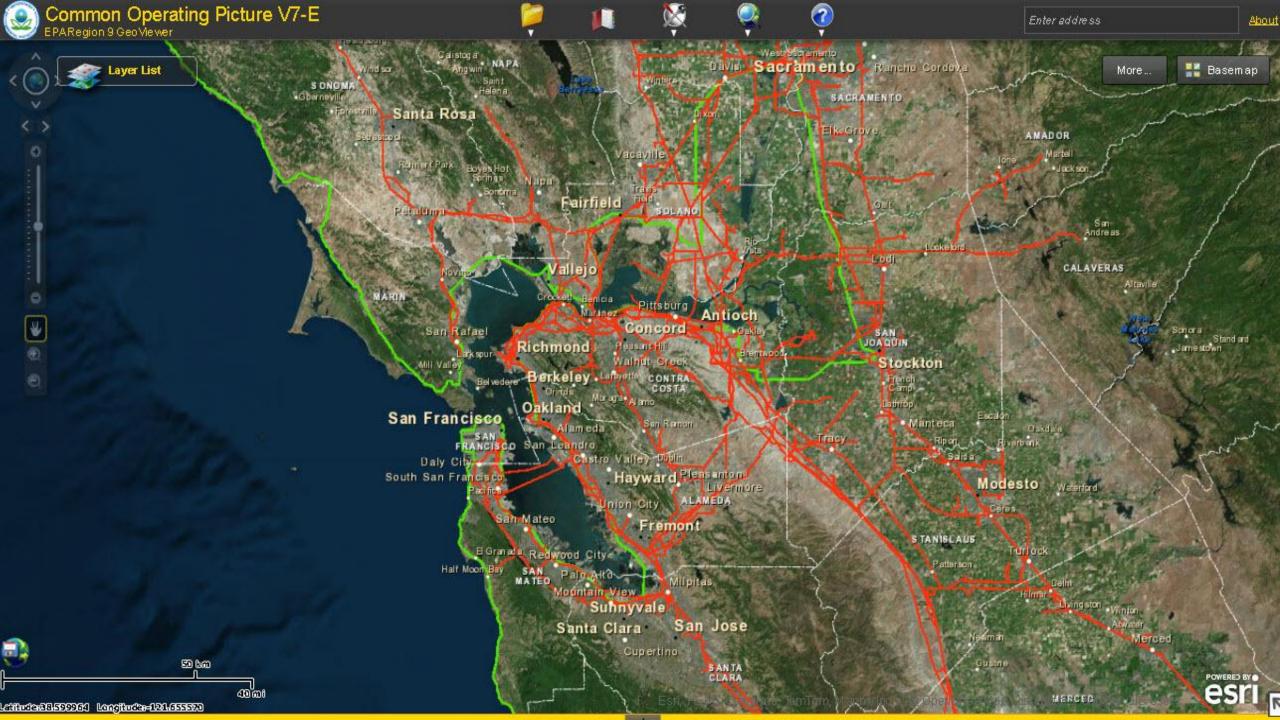
Access Code

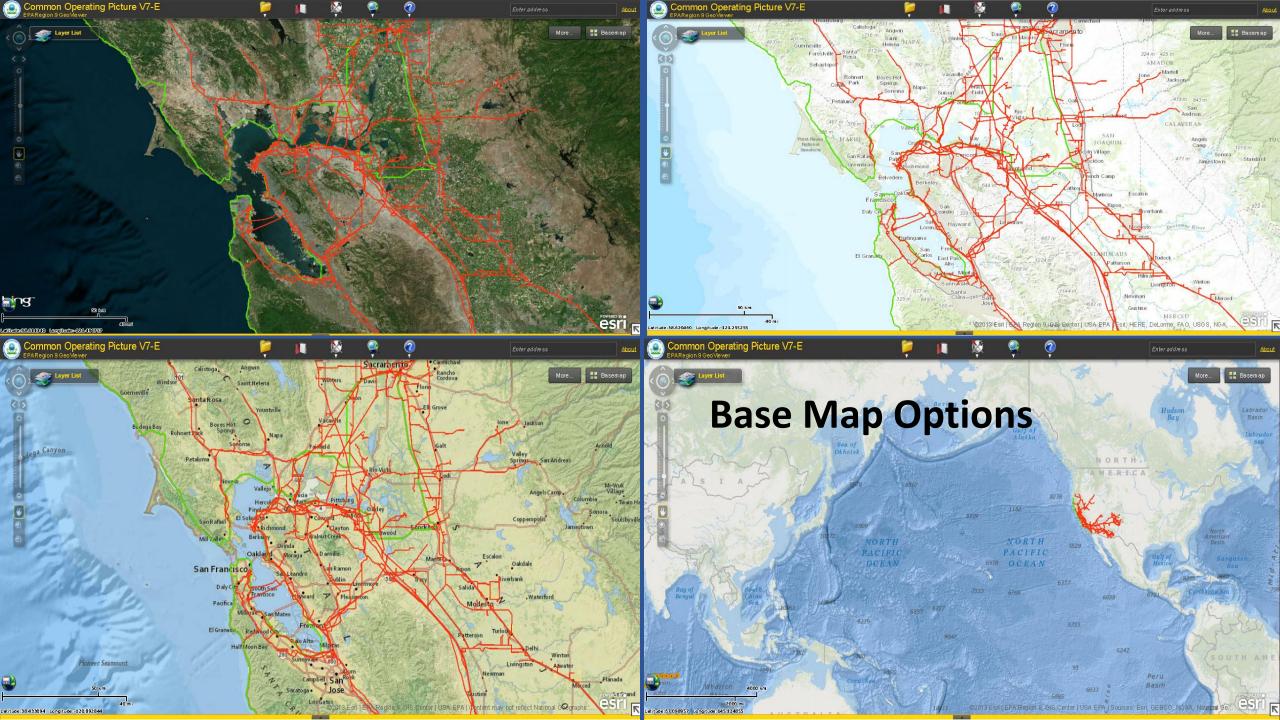
Login

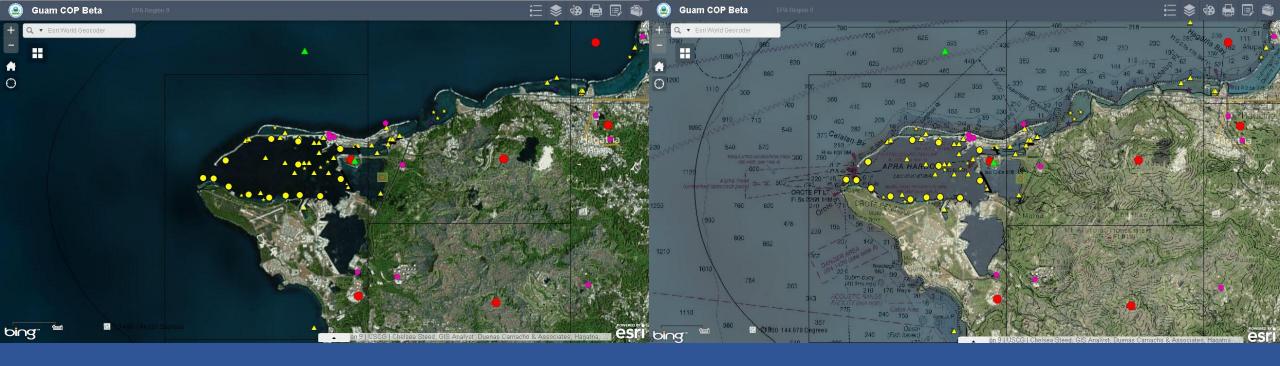




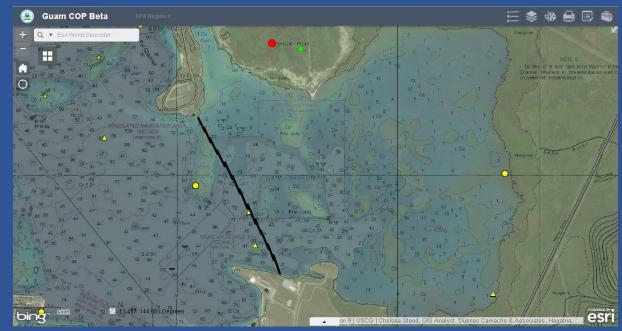




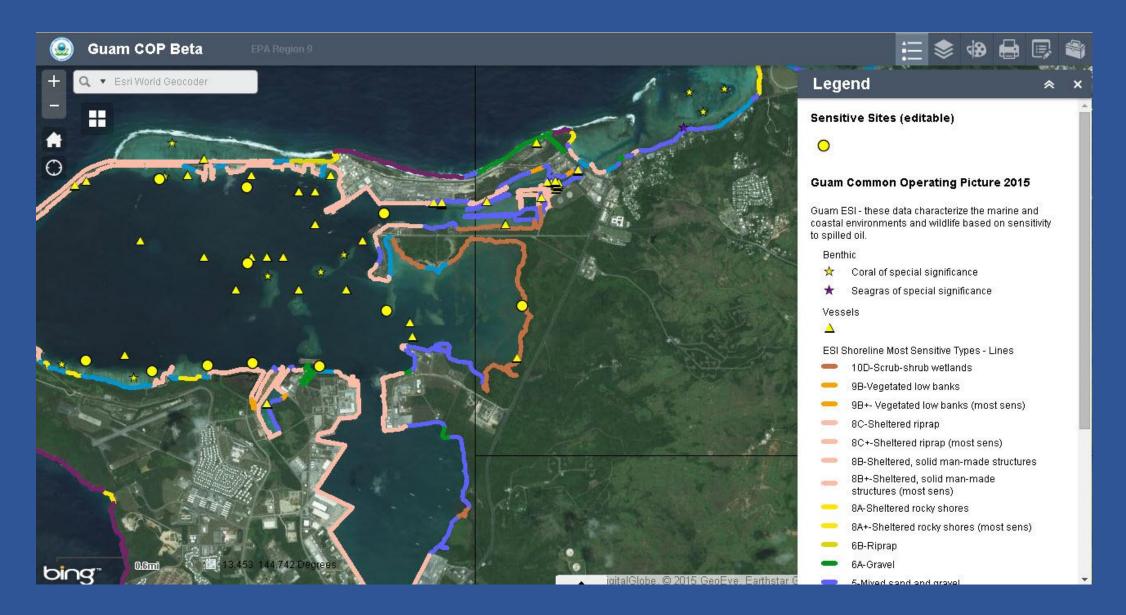




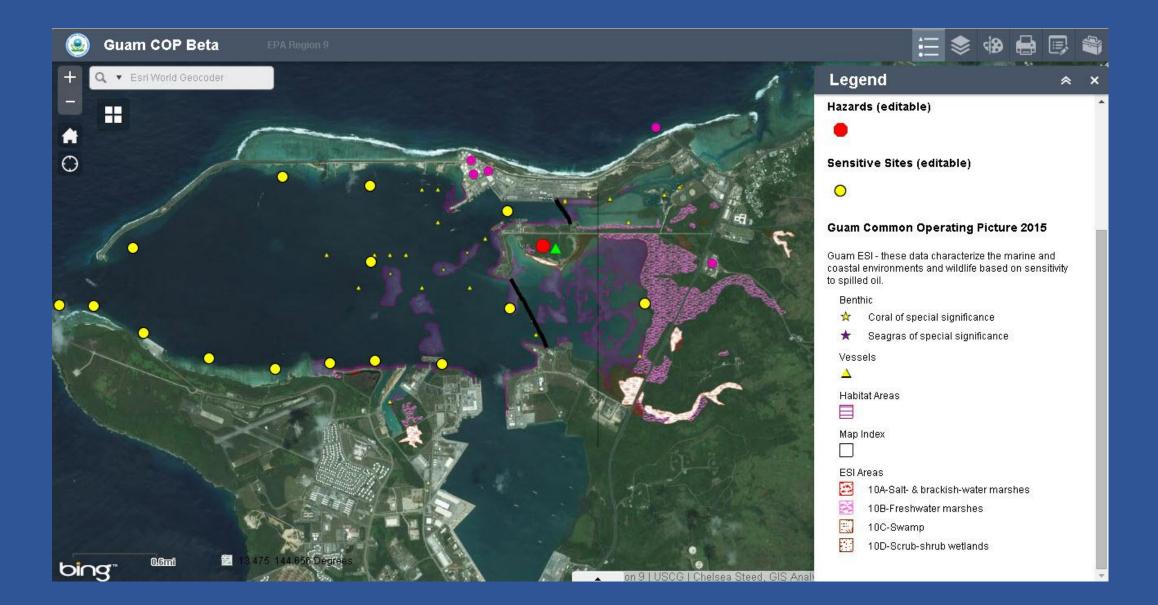
Base Maps Zoomed-in!



Environmental Sensitivity Data



ESI Data, Hazards and GRP Protection Strategies



Widgets.... APIs.... Geospatial tools!

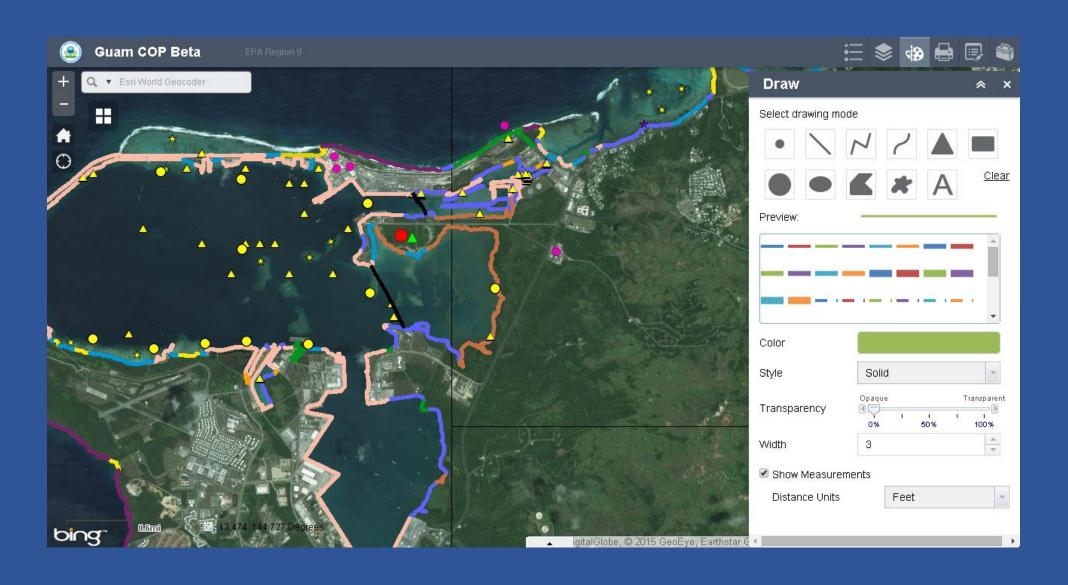
Widgets enable Spill Source Investigation and Tracking

- Easy watershed-based investigation to potential sources and downstream risks
- Pipelines, drinking water infrastructure, wetlands, etc.

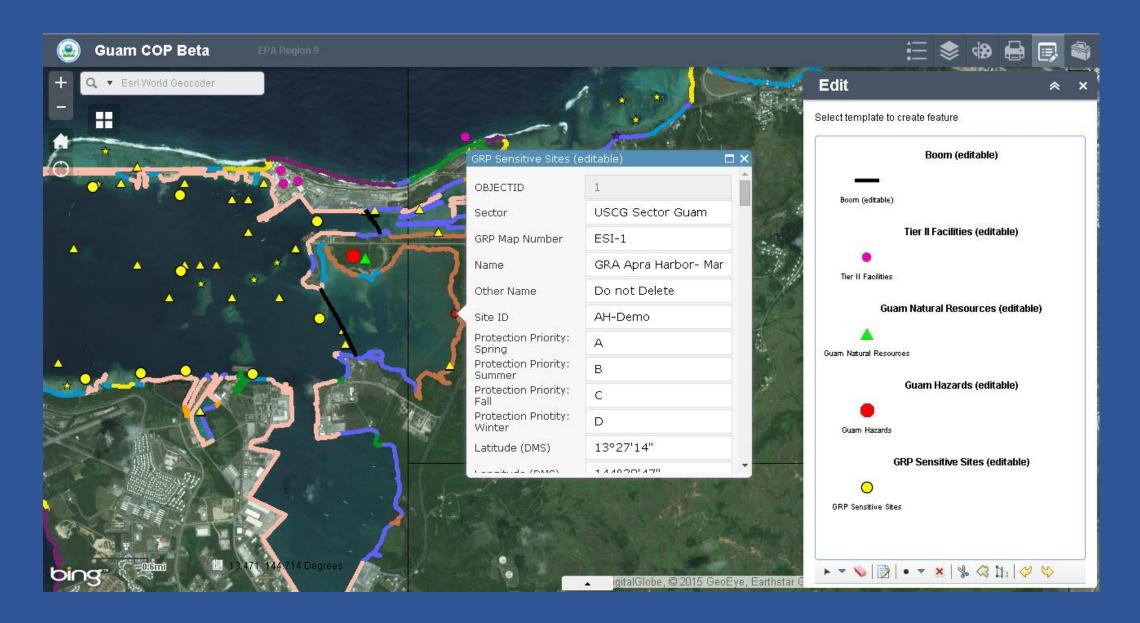
Widgets provide useful tools in the field

 Measuring distances and related physical relationships, forecast and existing weather conditions, information sharing, plume display, import of additional GIS layers, etc.

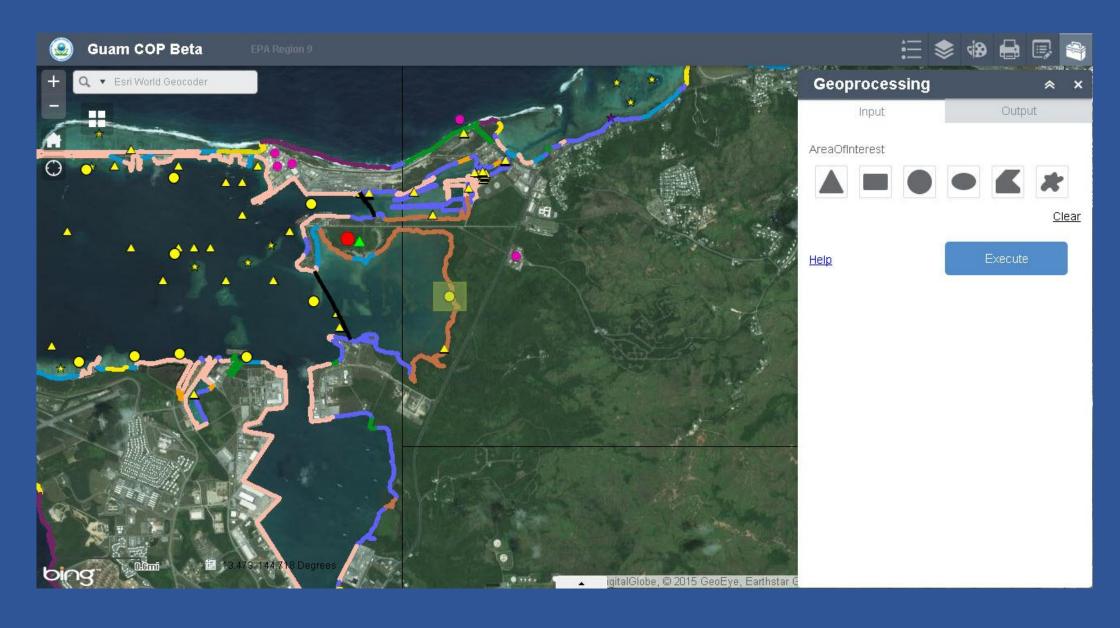
Geographic Response Planning



Geographic Response Planning



Geographic Response Planning



GRA Apra Harbor- Mangroves

GRP Map #ESI-1

Name: GRA Apra Harbor- Mangroves

Other Name: Do not Delete

Site ID: AH-Demo

Protection Priority (Season): Spring: /



CHART Name: CHART Name sample

Geospatial Information

Latitude (DMS): 13"27"14" Longitude (DMS): 144"38"47" Latitude (DD): 13.454543 Longitude (DD): 144.680255

ESI Map: ESI Map ESI Name: ESI Name sample text

USGS Quad: USGS Quad sample text QUAD Name: QUAD name sample te

Managed Area (If applicable): managed area text

General Location: general location text

Site and Resources at Risk

Site Description

NOAA Chart

Shoreline Type: Mangroves and salt marsh with coral heads at each end

Tidal Range (ft): +/- 1.5 feet summer months / +/- 2 feet winter months

Average Current (kts): Negligible

Physical Description: This mangrove shoreline is approximately 900 feet wide northern edge. The influenced by seasonal rainfall. During wet winter periods the creek mouth may For much of the year a natural sand berm fills the creek mouth forming a ponthe xxxxx. This mangrove habitat is the sensitive area of concern where a diver marsh plants such as cattail and bulrush thrive. Numerous species of birds, and terrestrial mammals are attracted to this mangrove habitat.

Other Comments: other site description comments... The cow jumps over the moon

Seasonal and Special Resource Concern

Comments: seasonal and special resource concern comments

Geographic Response Planning

AH-Demo GRA Apra Harbor- Mangroves

AH-Demo

Strategy G-101-A1

Objective: Primary; on the flood tide, exclusion booming mouth Walter's Creek, other tidal channels, and protect nearby

Implementation: a) Exclusion booming Alhambra Creek: 200' of swamp boom in a chevron configuration backed by sorbent boom at the inlet. b) Protection booming: Deploy 1100 of sorbent boom along the marsh to the west of

Martinez Marina (both sides of creek but mostly on the west side.) c) Exclude oil from entering the small tidal inlet to the marsh east of the marina with boom and sorbent (50' 4X4+). Tidal inlet mouth is located

between Shell and Amoco Terminals/Shore Terminal wharf at bridge

AH-Demo GRA Apra Harbor- Mangroves

AH-Demo

Staff

Strategy G-101-A2

Endangered Species: Tidewater goby and Steelhead trout. Consequently any NON-EMERG Objective: Primary: on the flood tide, exclusion booming mouth Walter's Creek, other tidal of must be with the concurrence of the Guam EPA wildlife blologist and U.

Implementation: Deploy 600' of deflection boom extending west from Inside the old ferry slip

Martinez Marina. Set deflection angle into the current as may be possible under

Strategy G-101-A 1300

Table of Response Resources

456709 1100 anchorine Strategy G-101-A skimmer sample Strategy G-101-A3 2000 2000

100

Other

Boom Skiffs Boat Punts

Anchoring Type/Ge

Strategy G-101-A3

Strategy G-101-A4

Objective: Deflection for the ebb tide, deflect oil away from and past Walter's Creek & mai

Sample objective

Implementation: Sample Implementation comments

Implementation: Deflect oil away from shoreline with 2000' 9x9+ Hboom. From the shoreline

treatment plant, deploy boom at a diagonal to the 15' depth contour.

Logistics

Directions: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Comments: Staging area is available at the end of the paved trail near the train trestle.

100 100 700

Strategy G-101-A4

Comments: Exit I-5 at Basilone Road and travel a short distance along the old PCH road to a gated access road maintained by State Parks. Enter the gate and proceed toward the Lifeguard offices on the bluff top, then turn south along the dirt road which leads to the beach. On the beach turn north and proceed to the San Maleo Creek mouth about one-half mile north. This creek mouth is approximately 300 feet wide at the mouth.

Water Logistics

Limitations: depth, obstruction

Launching, Loading, Docking and Services Available: services available sample text

Other Comments: water comments sample text

Facilities, Staging Areas, Possible Field Posts, and Equipment Available

Staging Areas: See Port Authority in the moment

Other Comments: other comments sample text

Communications Issues

Comments: test edit on AGO

Additional Operational Comments

Comments: Contact the Harbor Master before making any encroachements. Site access from the vehicle restricted footpath on the southwest edge of the harbor.

Cultural Priority: cultural priority comments

other resources of primary concern comments

Historic Priority: historic priority comments

AH-Demo GRA Apra Harbor- Mangroves

Socio-Economic Priority: 1 Must keep the port open if at all possible

beach sand dunes.

Archaeological Priority: 1 Notify Walter Leon Guerrero at Guam EPA immediately

Cultural, Historic, Socio-Economic and Archaeological Sensitivities

Other Comments: additional comments

Resources of Primary Concern

Habitat: mangroves

Other Comments:

Threatened and

Additional Site Summary Comments

Comments: Response efforts at this site will require coordination with the Commanding Office base routinely conducts live fire exercises and other similar military training mission front. Early coordination to avoid conflict between responders and military OPS guided travel within Navy and Guam EPA work sites should be coordinated to t

clearing the gate security office, and to speed up response time to the remote ic

Manatees, Red Sand Verbena - Two listed species of fish are known

During the months of March through September, Guam least tem and W

present along the beach face. One listed plant, Red sand verbena, mi

Wildlife: Manatees, Wading birds, Juvenil

Hazards and Restrictions

Hazards: hazards sample text

Restrictions: restrictions sample text

Other Comments: Use Lifequard Station road for access to the Mangrove Beach Path, Heavy

this route, but will have to cross over the rail road tracks at the trestle. Obt advance to avoid potential conflicts with rall traffic. A second access can be ac (07-002) access about 0.1 mile to the east.

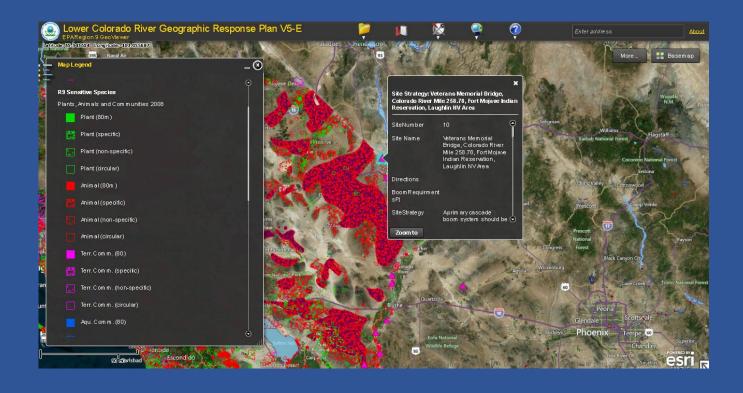
Contact Information

names, organizations, and phone numbers go here

Site Strategies

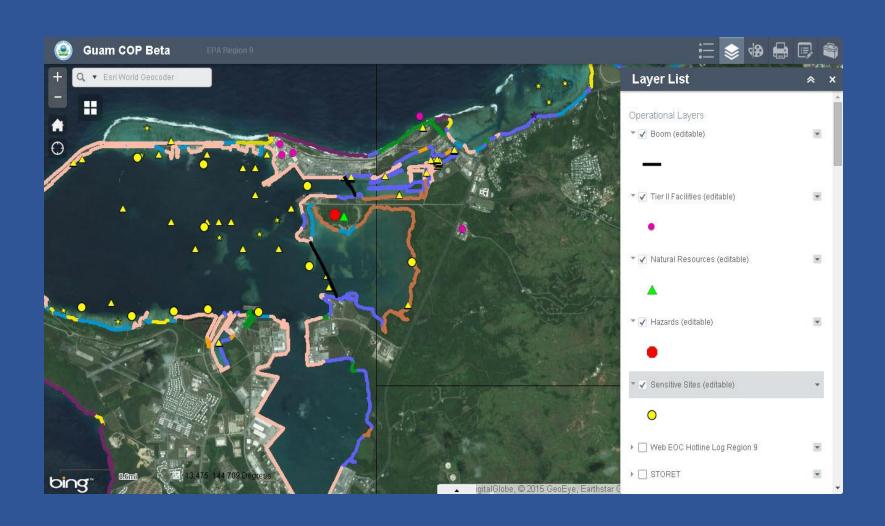
Comments: The mangroves are a seasonally evolving ecosystem strongly influenced by rainfall. The amount of recent rainfall will determine if the trees will be open or closed. Most of the year it is closed by a natural sand berm. Only if the mangroves have recently been opened by flowing water will closure be necessary, but overtopping wave wash may not be good.

Emergency Response Support Widgets



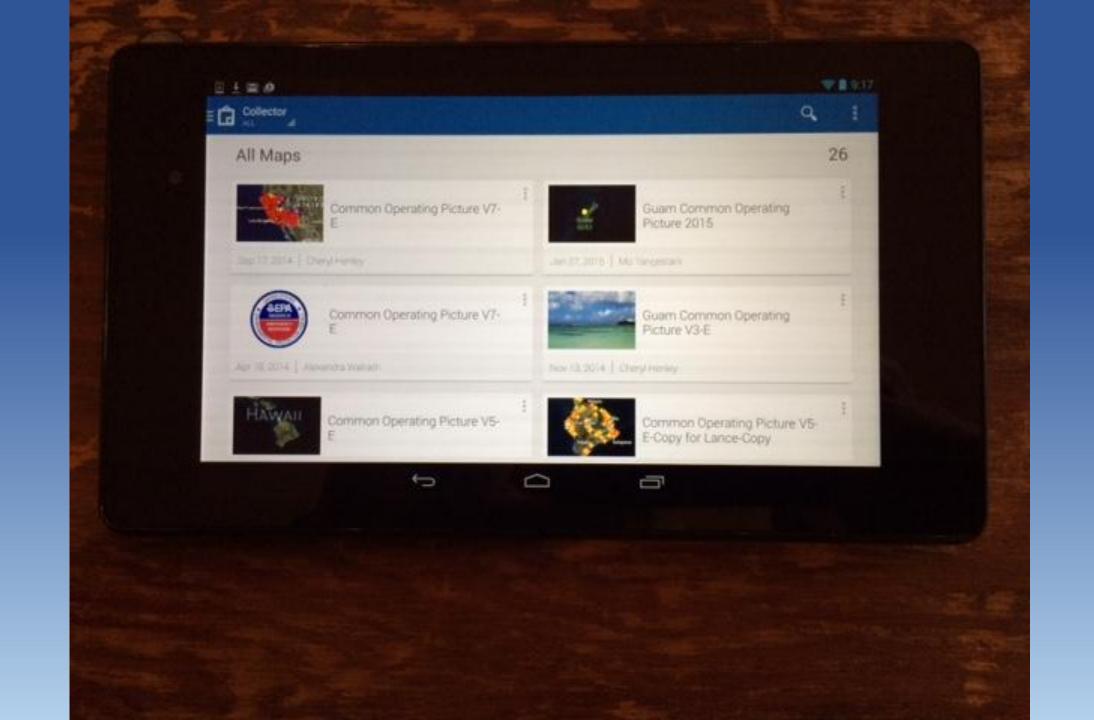
- Import functions
 - DTRA IMACC Plumes
 - Cameo Data
 - ALOHA Plumes
- Draw and Measure
- Screen Export/Print
 - Pdf/jpg
- Location tools
- Air Monitoring Display
- Spill Documentation
- Field Data Collection

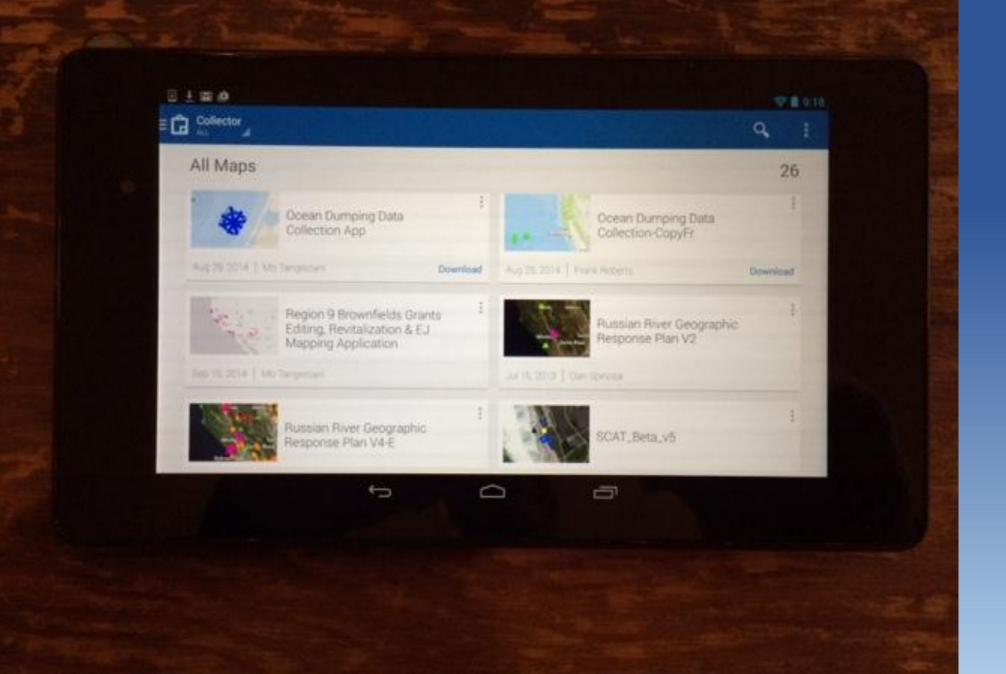
Real-Time Field Data Collection

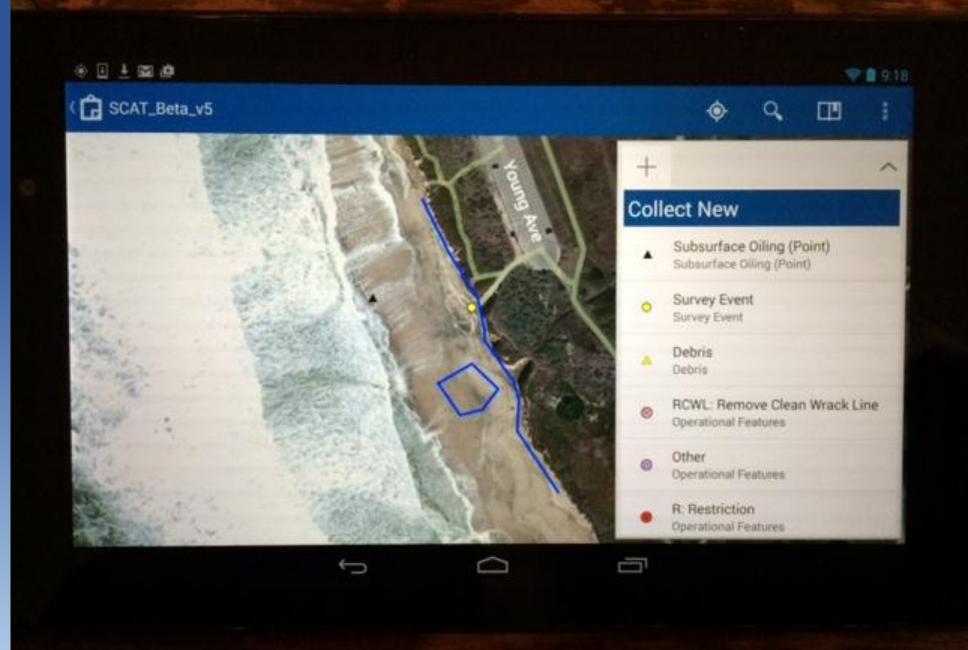


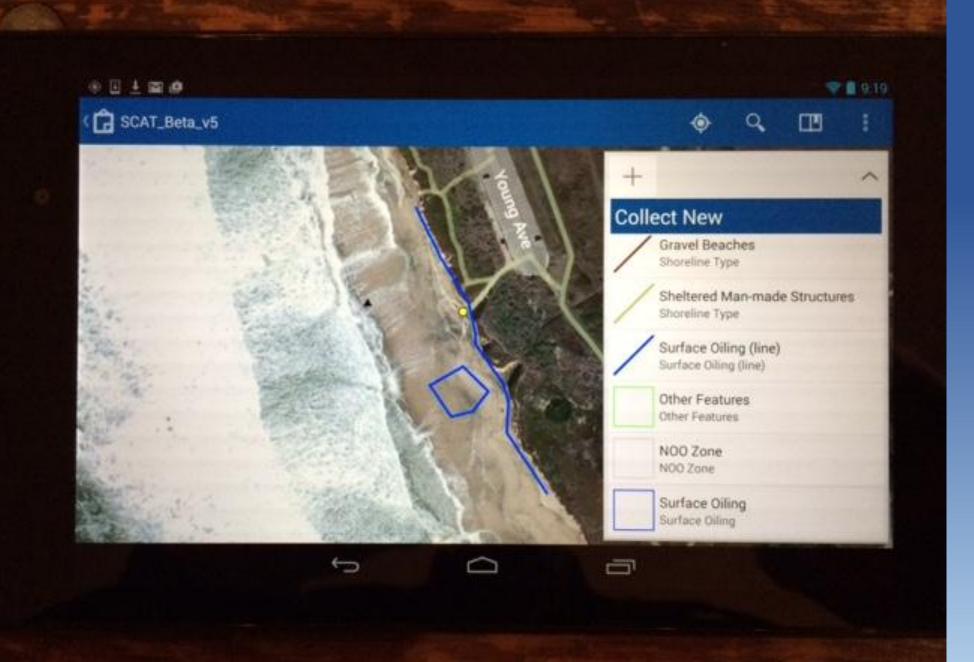
Direct from the Field to the ICP......

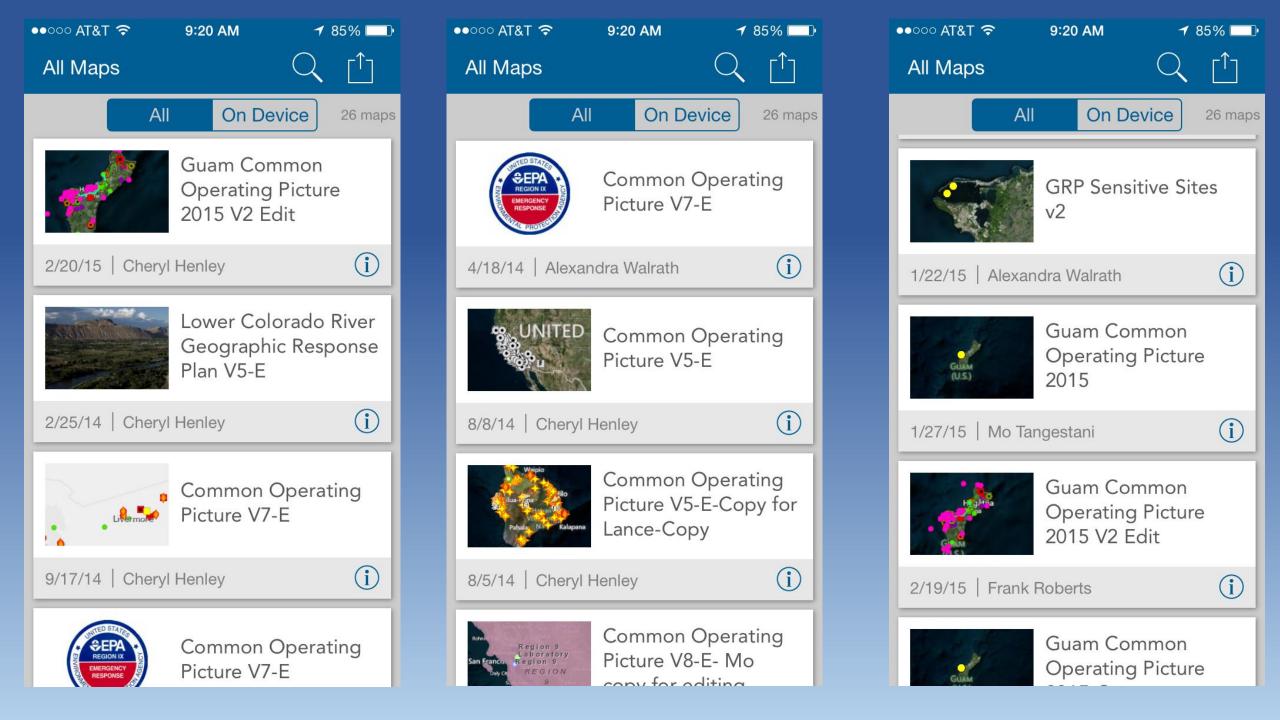
- Photos/Video
- Monitoring Data
- Survey Data
- Rapid-Needs
 Assessment Data
- Field Monitoring information

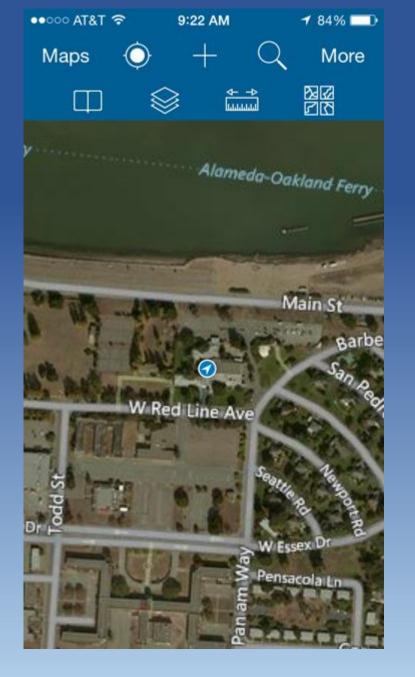


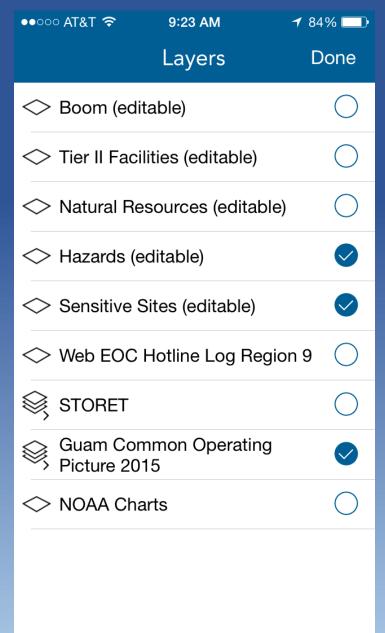


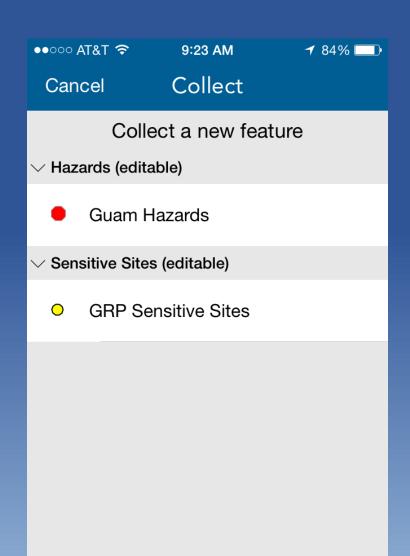


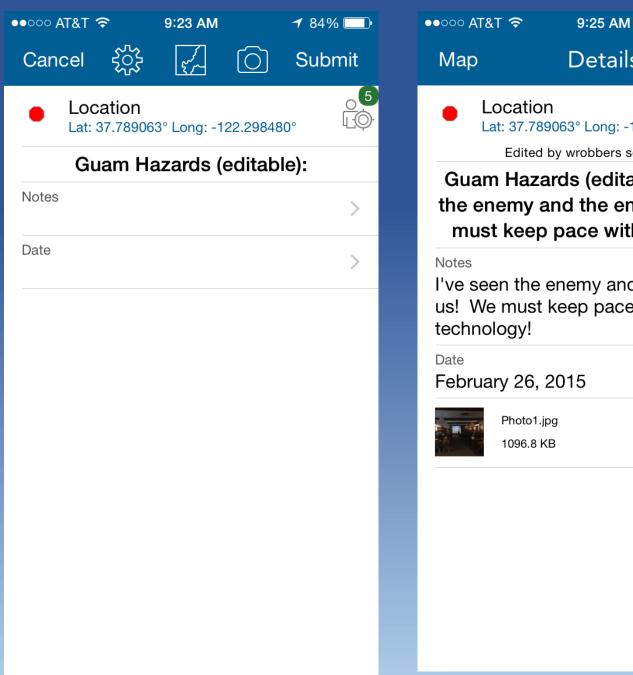


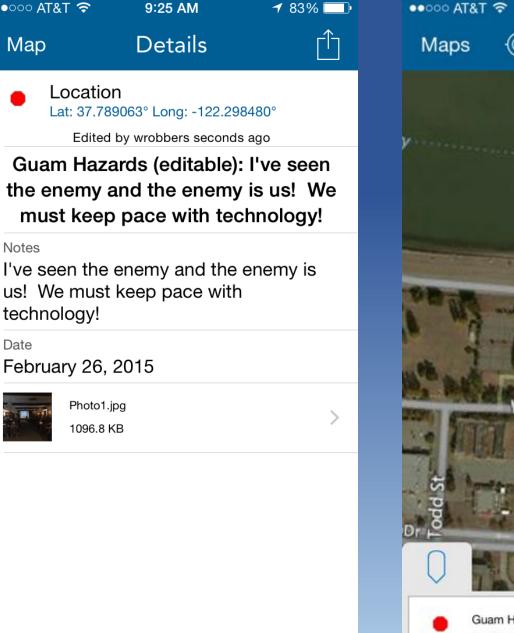
















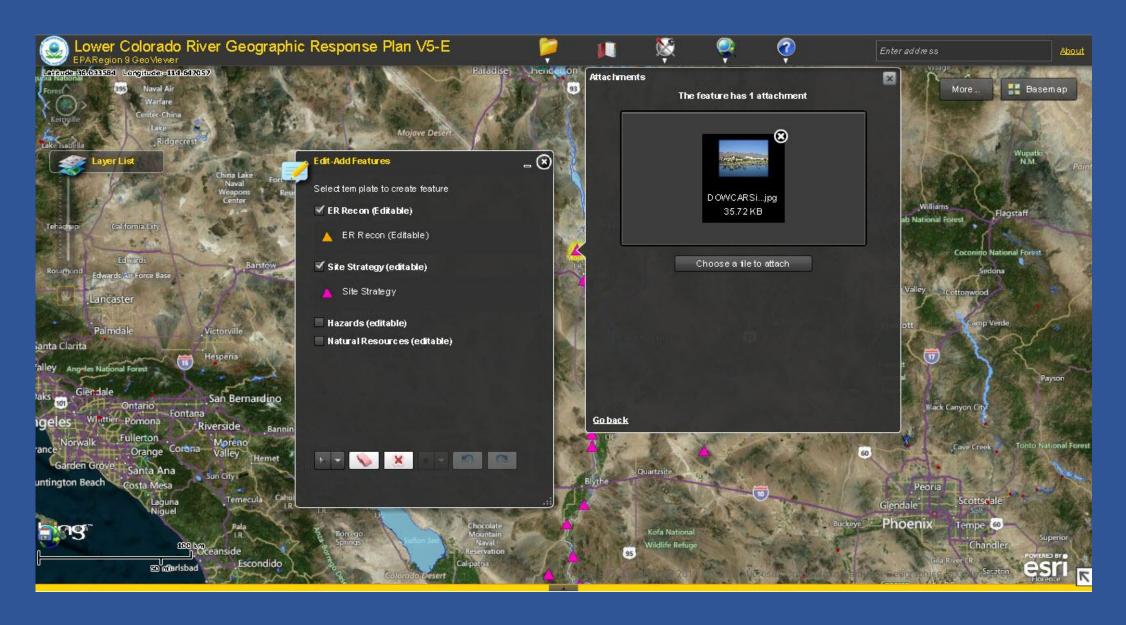
Done



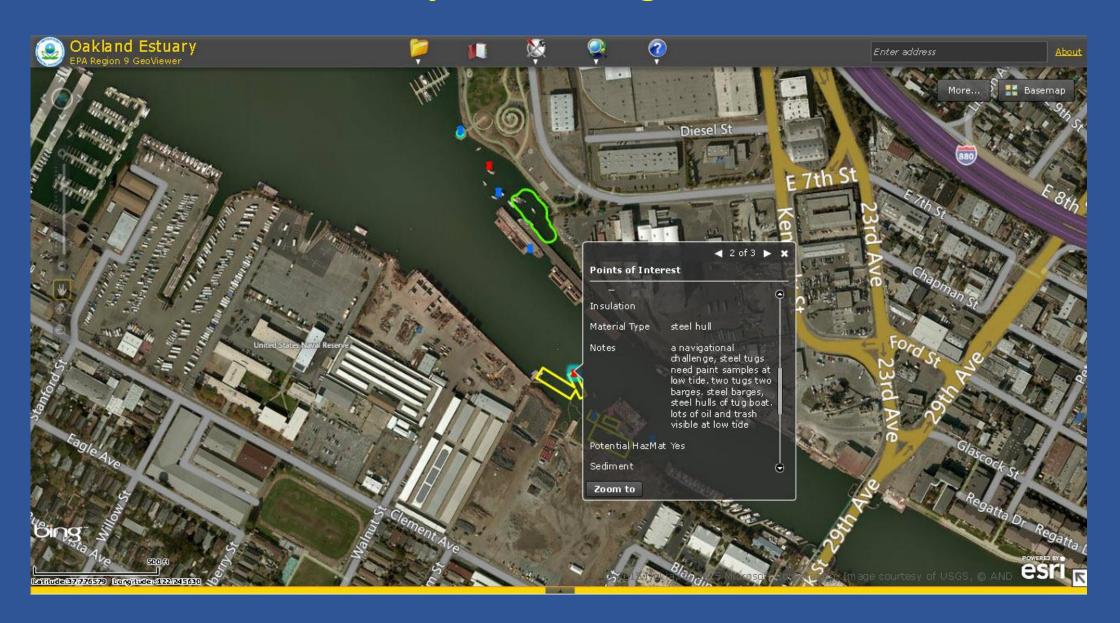
Photo1.jpg



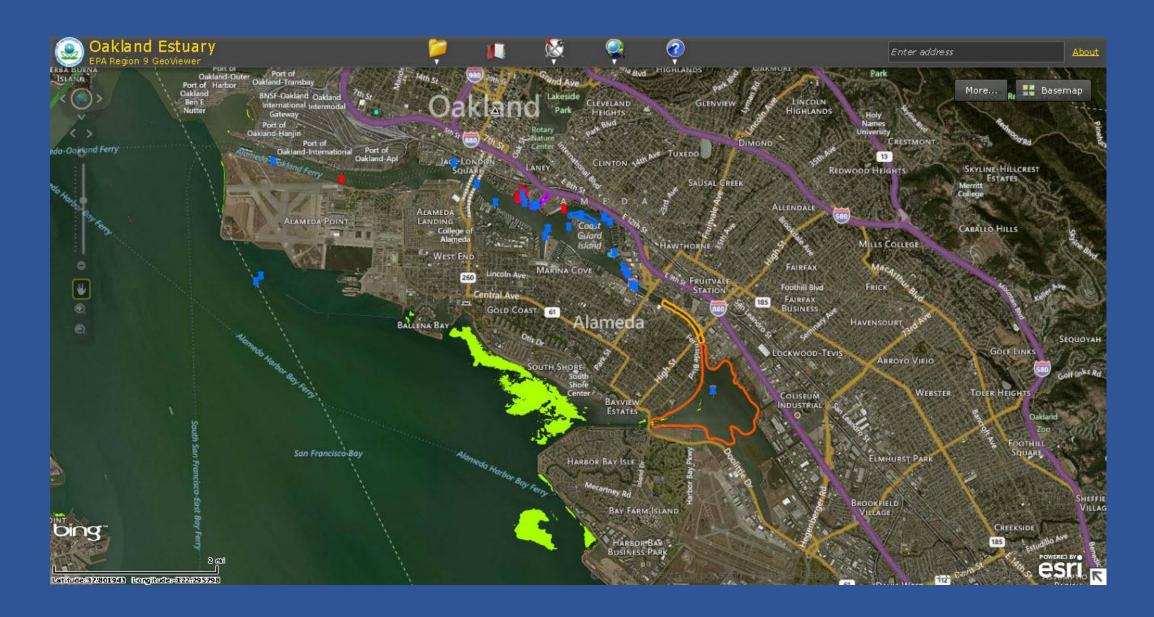
Area Contingency Planning



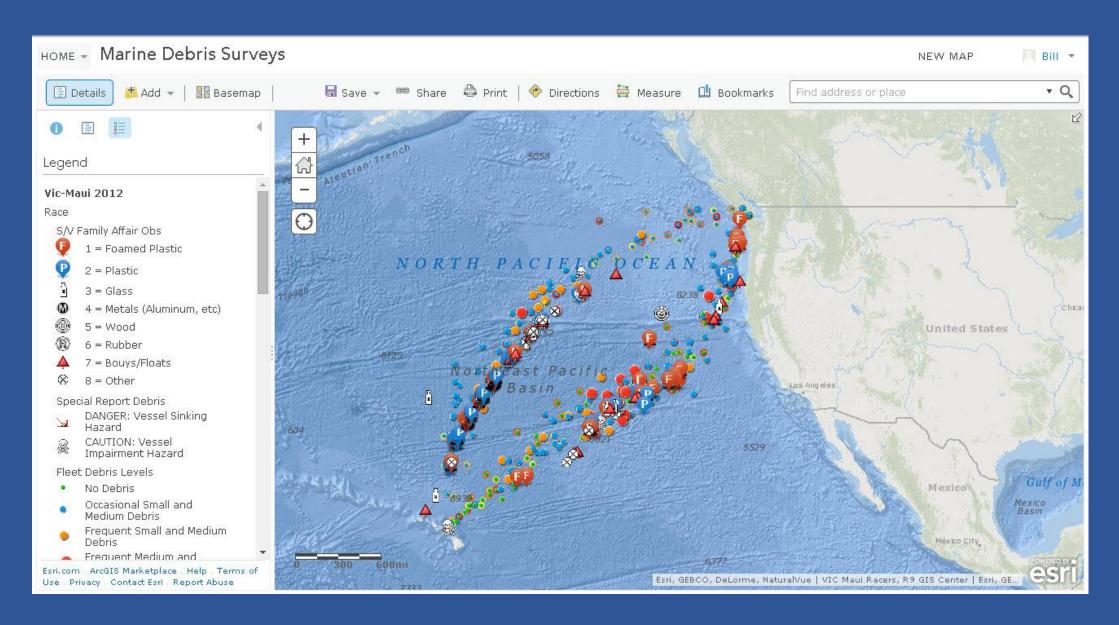
Removal Project Planning and Prioritization



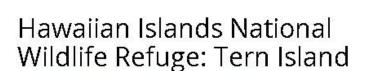
Removal Project Management and Outreach



Surveys and Tracking



Preliminary Assessments.... Anywhere!



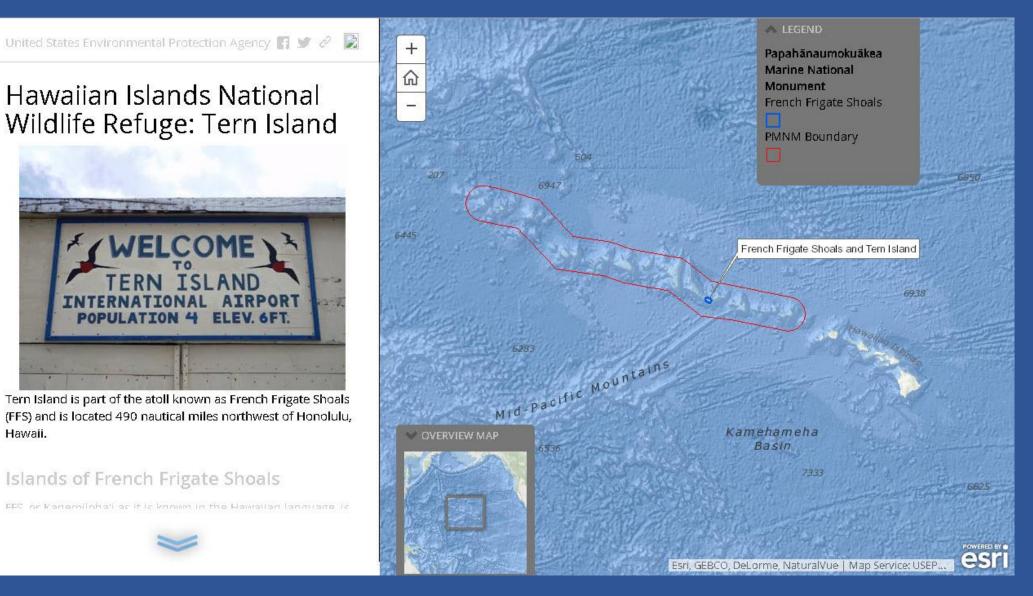


Tern Island is part of the atoll known as French Frigate Shoals (FFS) and is located 490 nautical miles northwest of Honolulu, Hawaii.

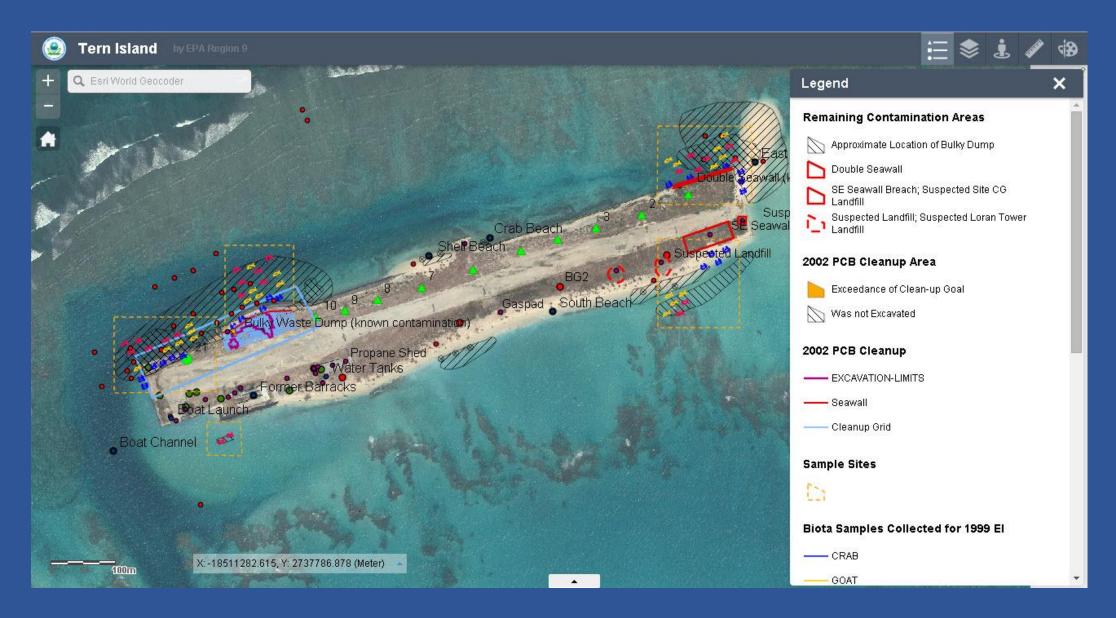
Islands of French Frigate Shoals

EEC or Vanamillaha'i as if is known in the Hawrelian language is





Technical Support



Wildlife Monitoring and Studies



