

Water Trail Benefits and Challenges

California Trails and Greenways Conference

Lake Tahoe

May 9, 2013



Session Speakers

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Galli Basson Association of Bay Area Governments	GalliB@abag.ca.gov
Sue Rae Irelan California Tahoe Conservancy	sirelan@tahoe.ca.gov
Steve Watanabe Department of Boating and Waterways	Steve.Watanabe@dbw.ca.gov

What is a Water Trail?



What is a Water Trail?



101 Surfsports



Tom Mikkelsen



Daniel Mannisto

What is a Water Trail?



What is a Water Trail?



What is a Water Trail?



Karl Nielsen

What is a Water Trail?



What is a Water Trail?



What is a Water Trail?



What is a Water Trail?



What is a Water Trail?



Mike Baird



Kim Pattersen



Fred Parkes

What is a Water Trail?



What is a Water Trail?

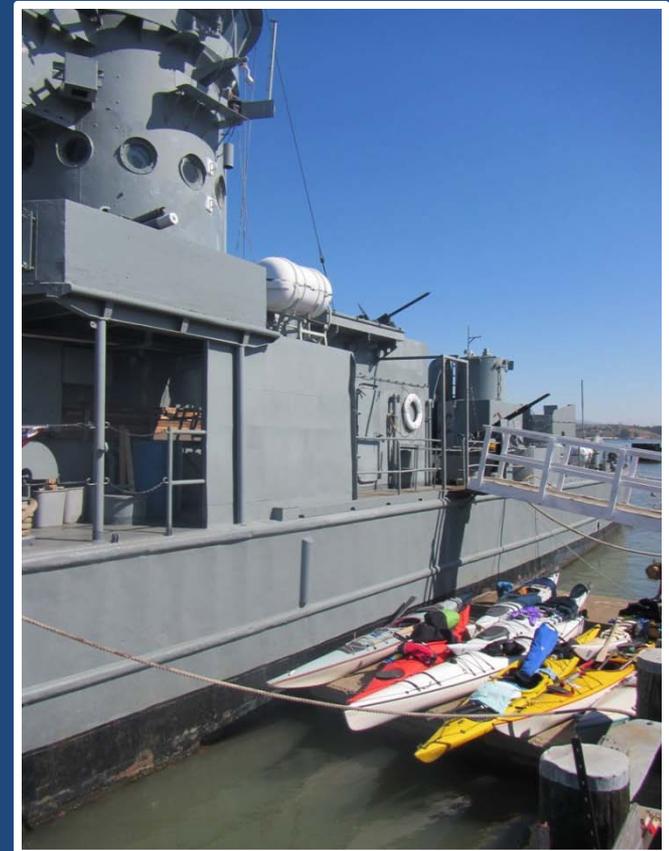


What is a Water Trail?

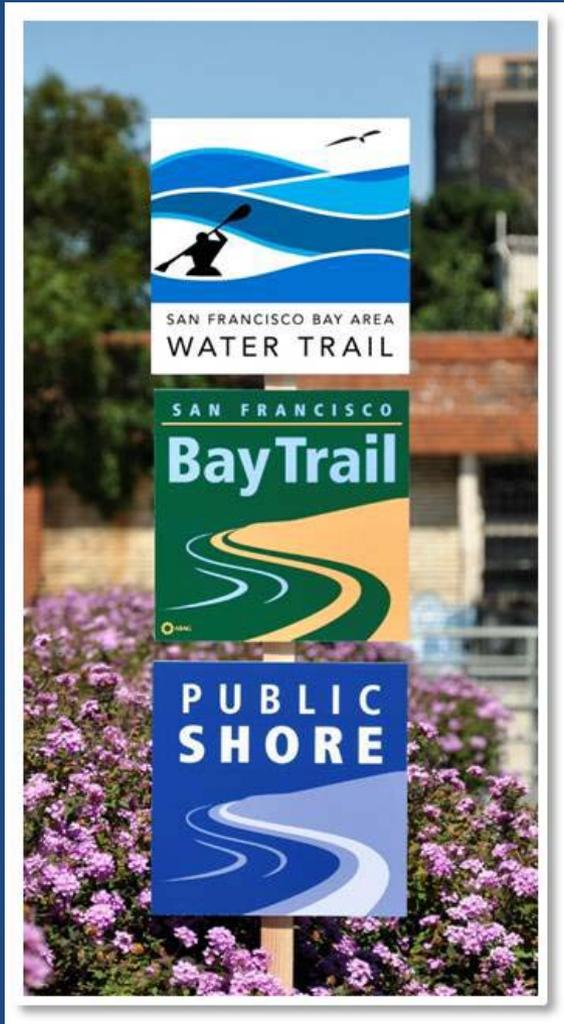


Lisa Ouellette

Wilfred P. Jones



A Water Trail is a System

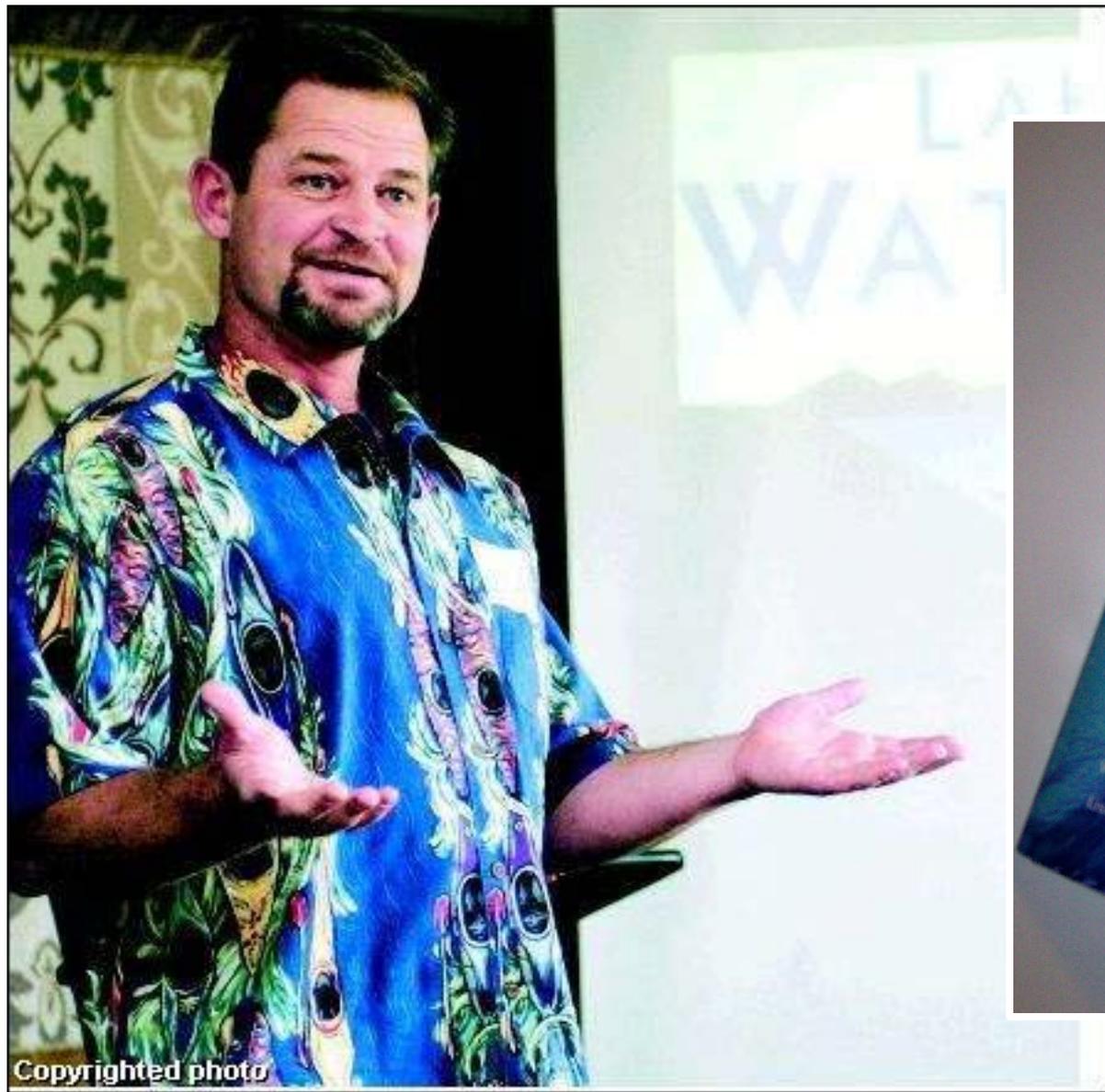


- Large or small
- Linear or on a bay or estuary
- Formal or informal
- Serving many purposes

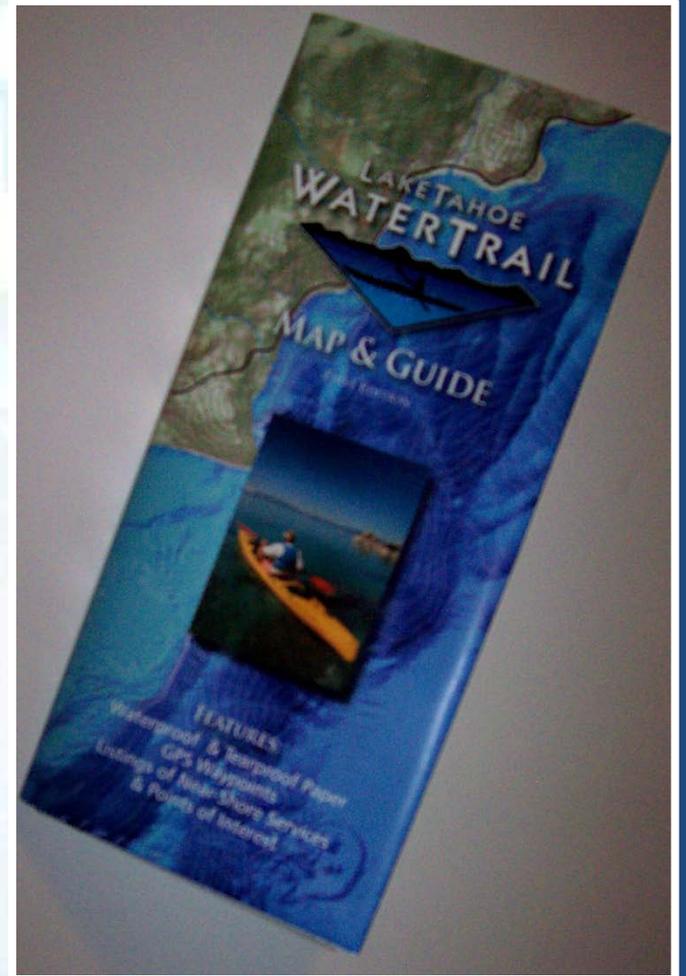
Lake Tahoe Water Trail



The Big Idea



Copyrighted photo



Engaging Public Agencies



Lake Tahoe Non-Motorized Boating Framework

Federal

- US Forest Service, Lake Tahoe Basin Management Unit

California State

- California Tahoe Conservancy
- California State Parks
- California Department of Boating and Waterways

Nevada State

- Nevada State Parks
- Nevada Department of Wildlife, Boating Division

Interest Groups

- Lake Tahoe Water Trail Team
- Tahoe Lakefront Property Owner's Association

Facilitator

- National Parks Service Rivers, Trails, and Community Assistance Program

Other Input: California State Lands Commission, Nevada State Lands Division, Washoe Tribe, Motor Boat Interests, Private Property Interests, Business Interests

Current Status



Lake Tahoe Non-Motorized Boating Framework

Study and Recommendations for Support, June, 2011

The Lake Tahoe Non-Motorized Boat Working Group studied existing non-motorized boating at Lake Tahoe and created recommendations to address use issues and support paddling and other non-motorized boat access.

LAKE TAHOE WATER TRAIL



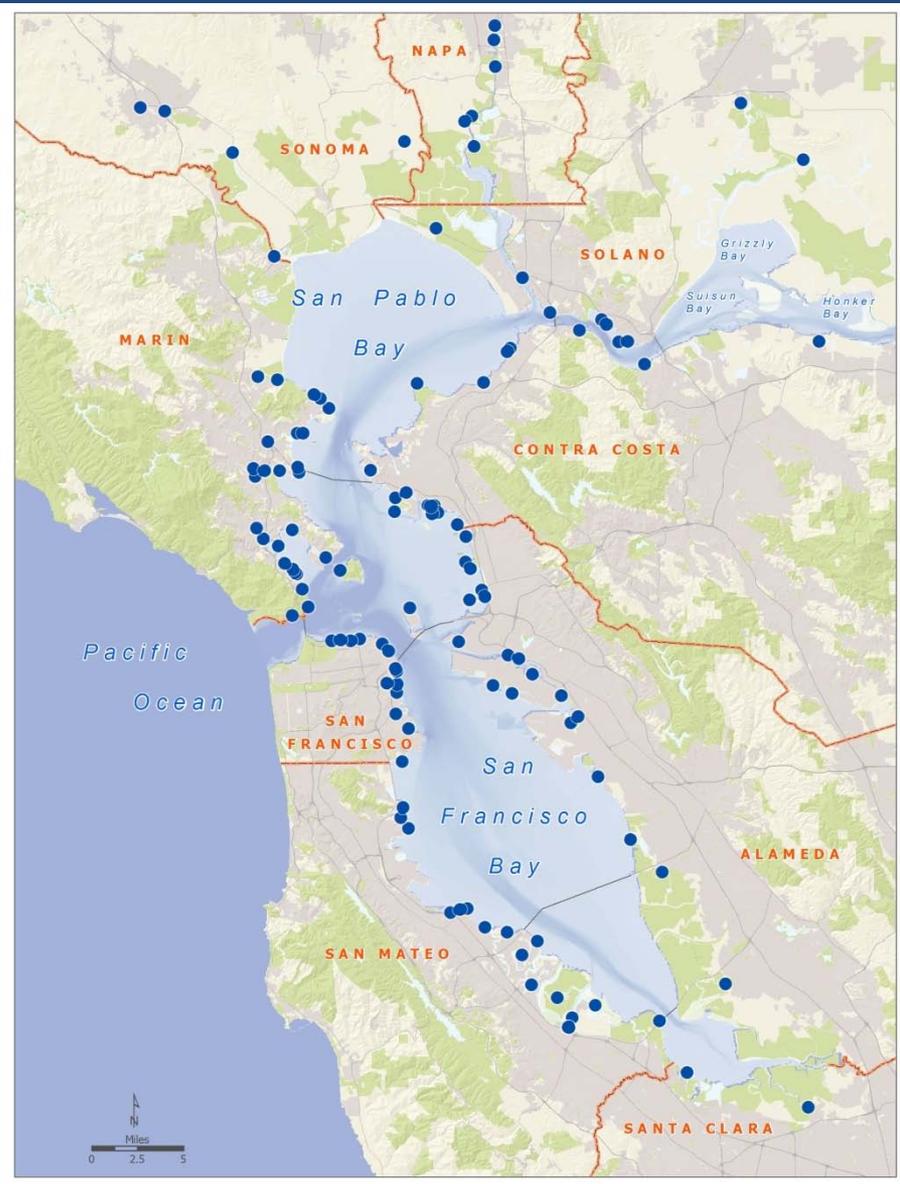
laketahowatertrail.org



San Francisco Bay Area Water Trail



Water Trail Vision



A network of landing and launching sites around the nine-county Bay Area for non-motorized small boats

Loss of Access

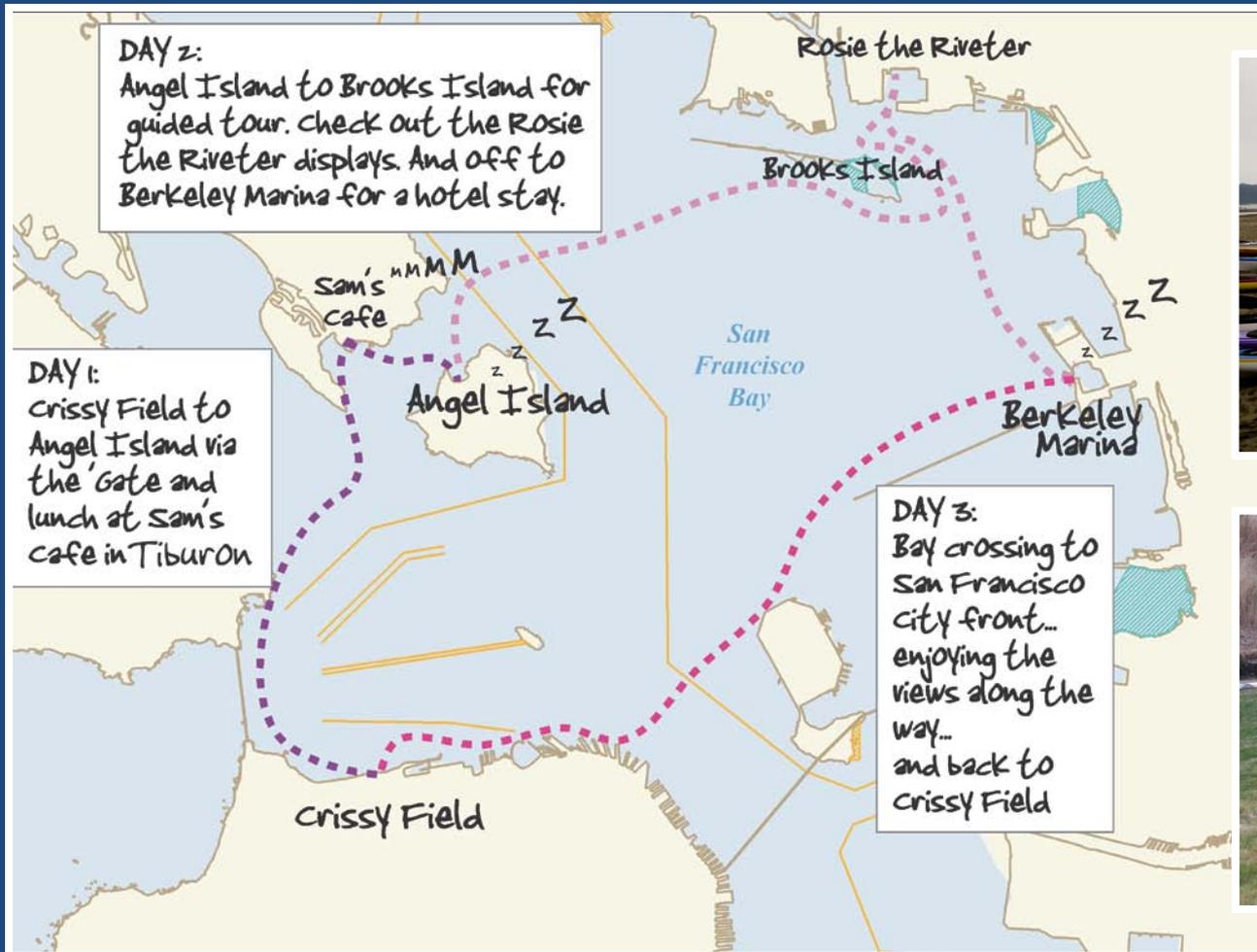


Bay Access, Inc.



101 Surfsports

Overnight Opportunities



Water Trail Act (AB 1296, Hancock)



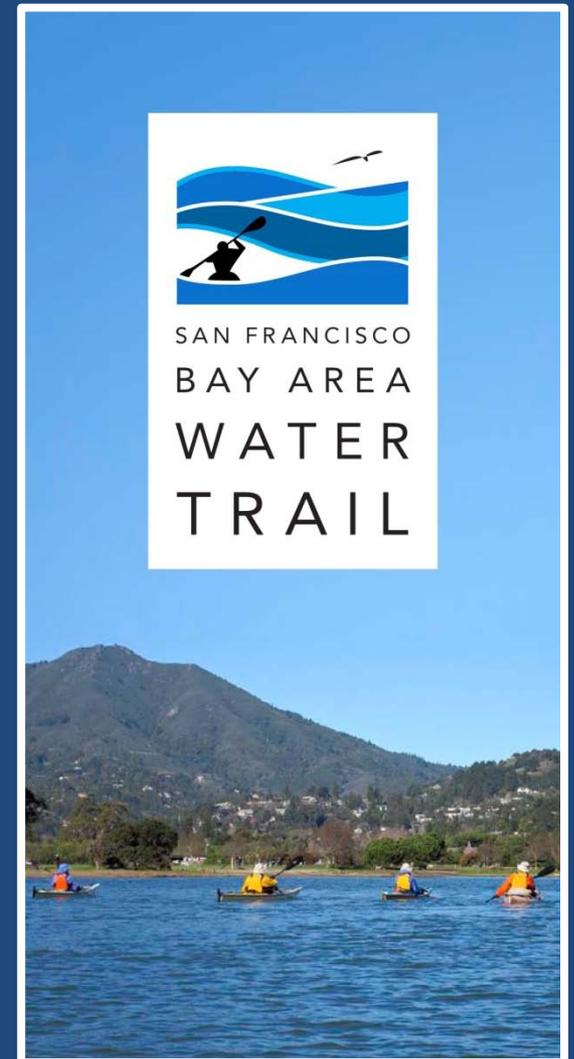
Daniel Mannisto



Lyrinda Snyderman

Current Status

- Certified Programmatic FEIR
- Developed Logo
- Launched Website
- Created Brochure
- Launched Grant Program
- Designated Water Trail Sites



Why Create a Water Trail?

The Statewide Perspective

DEMAND

- Over 1.7 million non-motorized boats in California (compared to 963,758 registered boats)
- 2.5 million individual participants in California
- Over 48 million non-motorized boating participation days per year

ECONOMICS

- \$1.7 billion annual contribution to the California economy (boats, equipment, supplies, apparel, fuel, food, entrance fees, lodging, rentals, instruction, guided trips, etc.)
- \$36.09 per person, per day user value (travel cost methodology)

HEALTH BENEFITS

- 81% of Internet survey respondents say they participate in non-motorized boating for fitness

Other Water Trail Efforts

- Humboldt Bay Water Trail – *Redwood Community Action Agency*
- Lakes Basin Portage – *Plumas National Forest*
- Clear Lake Water Loops – *Lake County/Lake County Visitor Information Center/Volunteers*
- Lake Natoma Water Trail – *California State Parks*
- Kings River – *Kings River Conservancy*
- Lower San Joaquin River – *SJ River Conservancy*
- Lower Owens River – *Inyo County*

Humboldt Bay Water Trail

Exhibit 2: Humboldt Bay Water Trails
Implementation Program Phase 1

Humboldt Bay Water Trails Implementation Program,
Phase I, 2008

Prepared by:
Natural Resources Services Division,
Redwood Community Action Agency
904 G Street
Eureka, CA 95501

With assistance from:
Winzler & Kelly Consulting Engineers
633 Third Street
Eureka, CA 95501

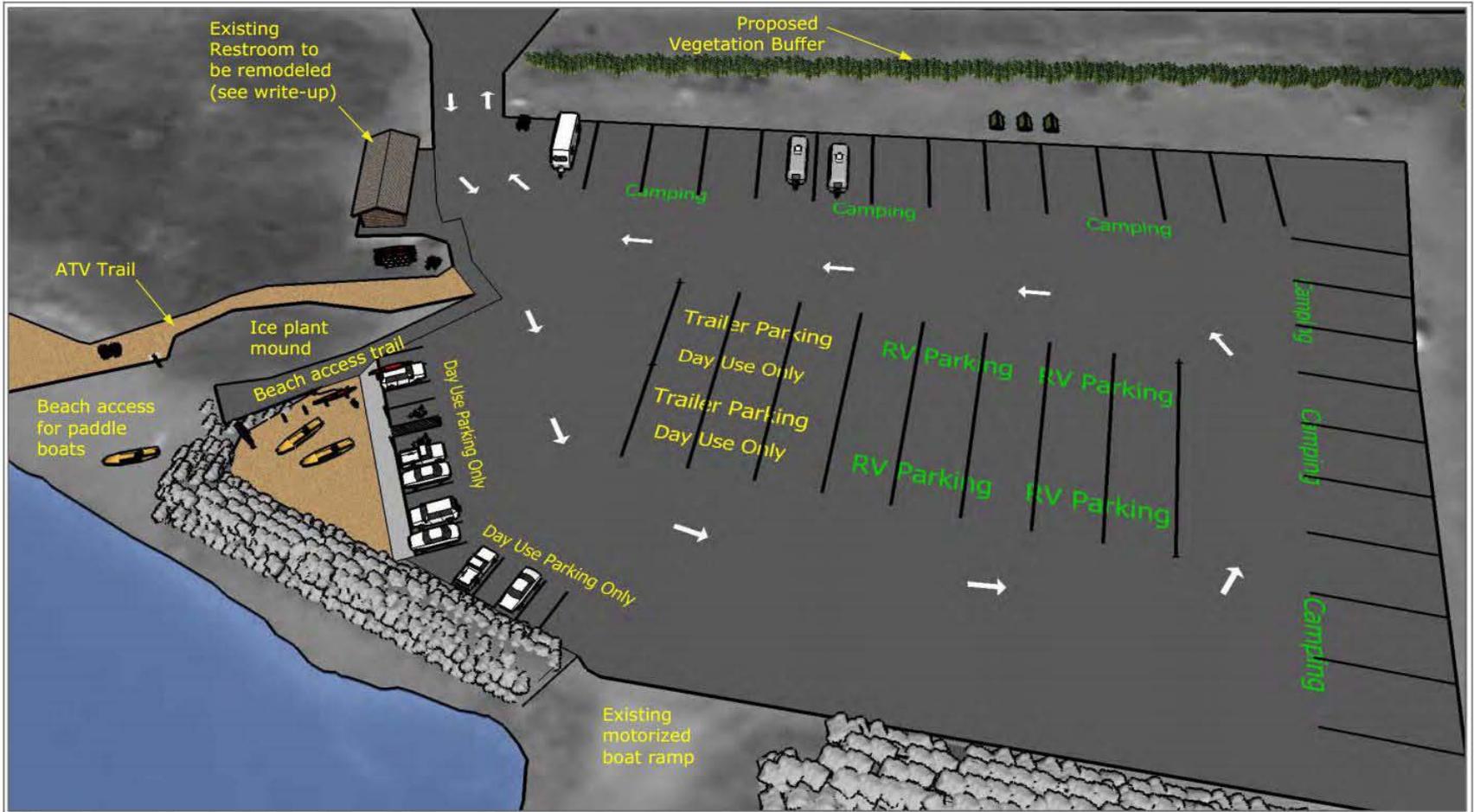
and
Humboldt Bay Harbor, Recreation, and Conservation District
601 Startare Drive
Eureka, CA 95501



Prepared for the State Coastal Conservancy



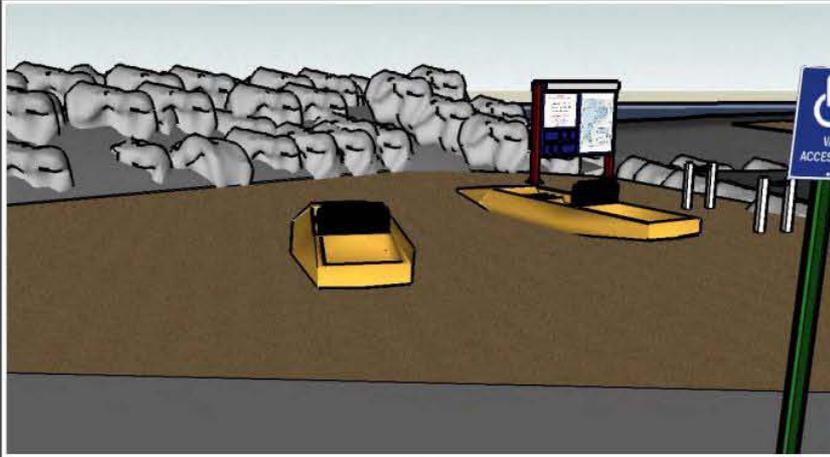
Humboldt Bay Water Trail



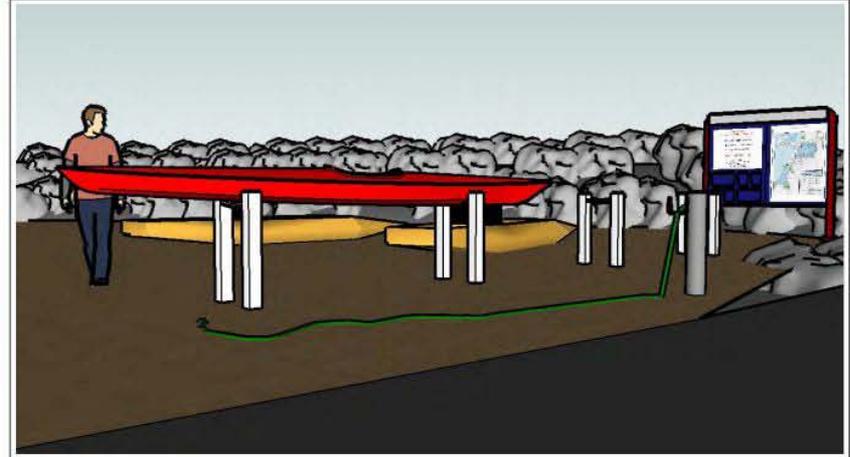
Humboldt Bay Water Trail

Humboldt Bay Water Trails Implementation Program

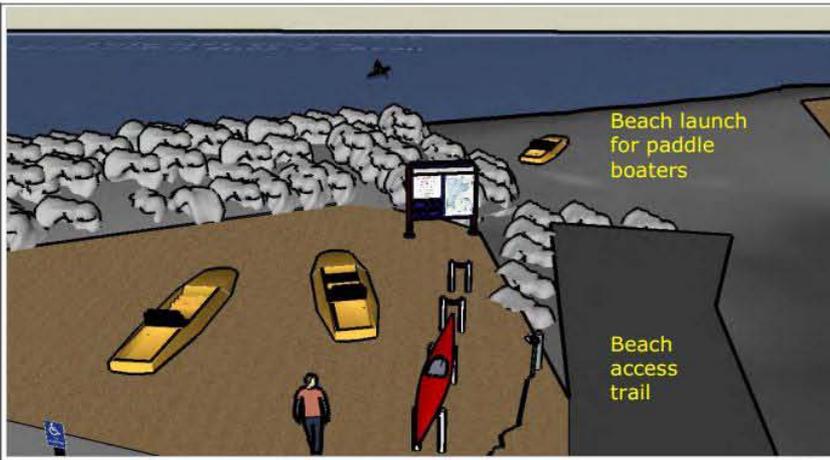
Priority Access Site Improvement Recommendations



(a) Boat preparation area



(c) Boat wash station



(b) Path to beach launch



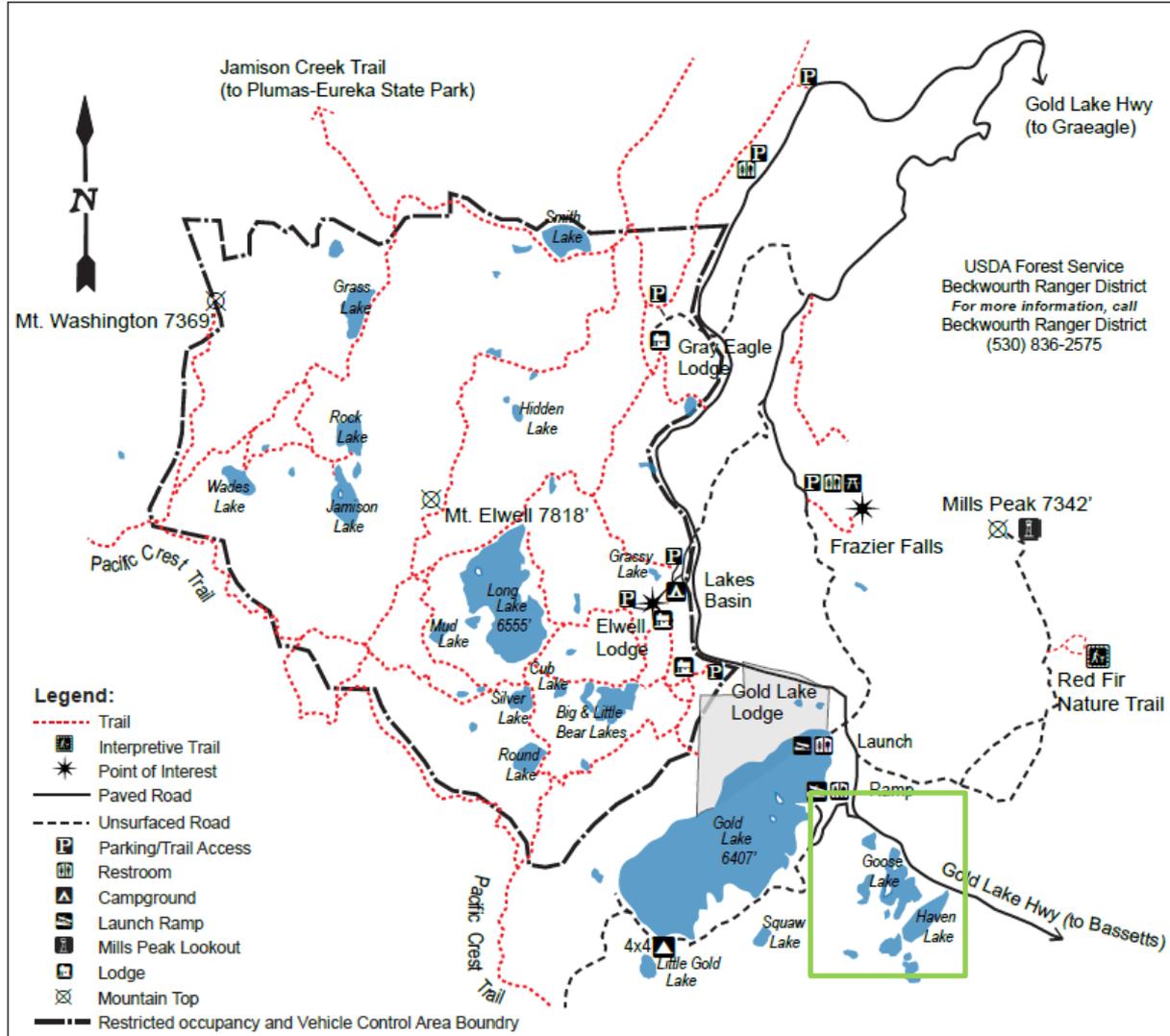
(d) Water trail information kiosk

Lakes Basin Portage

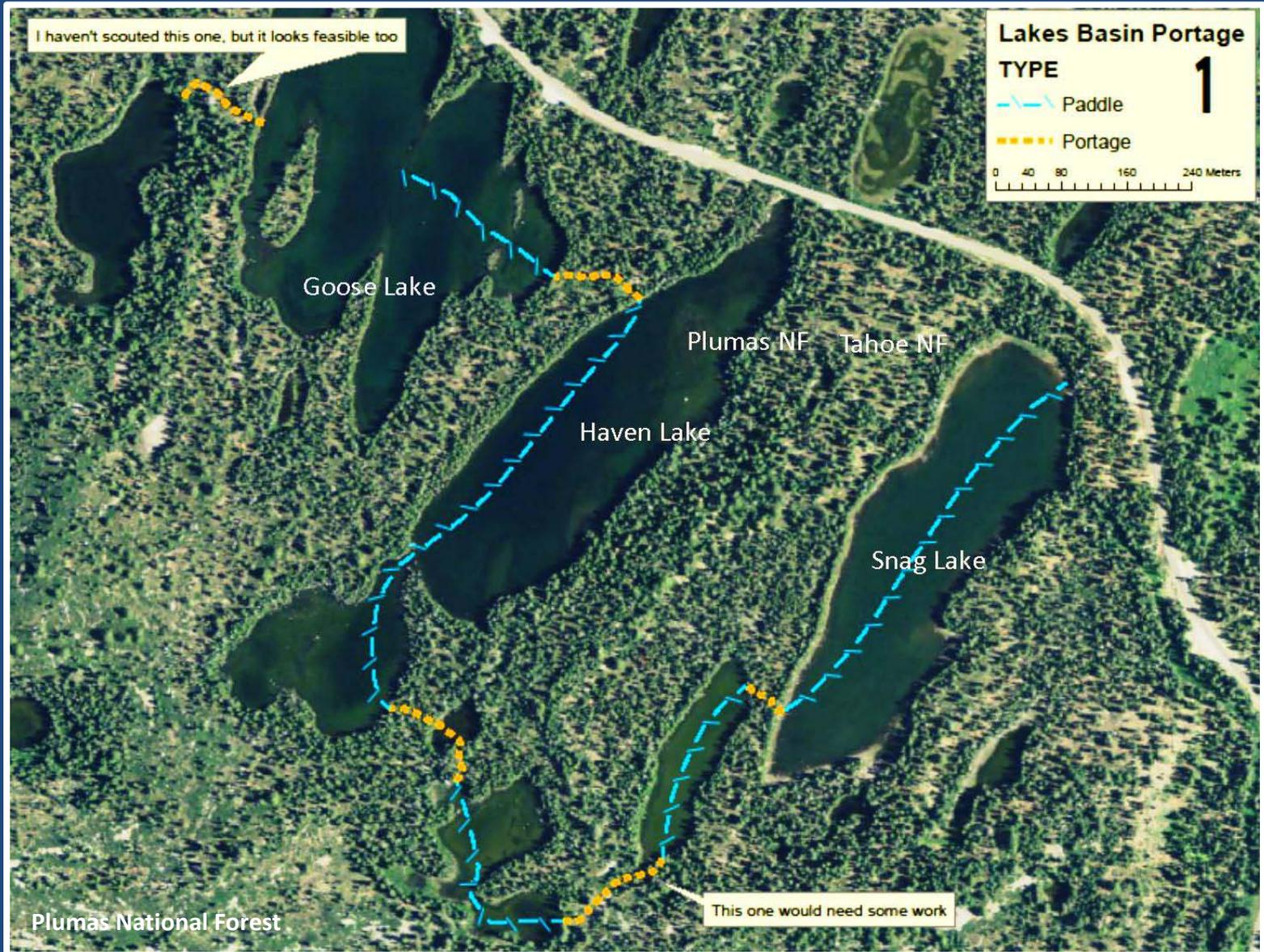
In Case of Emergency
Fire / Medical / Sheriff:

Call 911
A pay telephone is
located in Graeagle

Lakes Basin Recreation Area Plumas National Forest



Lakes Basin Portage



Clear Lake Water Trails

KonoctiTrails

Search this site

▼ Konocti Regional Trails (KRT)

- Our Vision & Goals
- Our KRT Group
- Trails Project updates
- KRT Master Trails Plan
- ▶ KRT Public Workshops
- Reports & Files
- In the News
- Using the Site

▼ Clarks Island

- Floating Islands
- Natural Building
- Tule Revegetation
- Earth Day Celebration

▼ Land Trail Areas - Existing

- Anderson Marsh State Park
- Boggs Mountain
- Cache Creek (BLM)
- Clear Lake State Park
- Cow Mountain (BLM)
- Highland Springs Reservoir
- Indian Valley/Walker Ridge
- Lake Pillsbury (MNF)
- ▶ Mt Konocti County Park
- Snow Mountain Wilderness (MNF)

▼ Water Trails - Existing

- Clear Lake - Public Access
- WT1: Rattlesnake Island
- WT2: Tule Maze of Anderson Marsh
- WT3: Cache Creek Dam
- WT4: Island Hopping at the Narrows
- WT5: Volcanic Vents of Soda Bay
- WT6: The Wetlands of Long Tule Bay
- WT7: Rodman Slough

▼ Vineyard Pathways

- VT1: Red Hills Terroir Trail

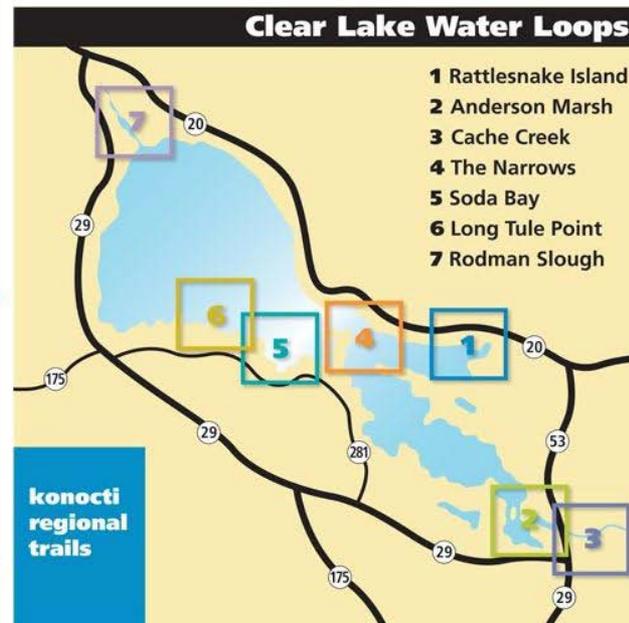
Bike Trails

Equestrian Trails

▼ Helpful Trails Info

- Trails Events Calendar
- Weather/Water Levels

Water Trails - Existing



What is a Water Trail

Water trails are recreational waterways on a lake, river or ocean between specific locations, containing access points and day-use and/or camping sites for the boating public. Water trails emphasize low-impact use and promote stewardship of the resources, while providing healthy, outdoor activity.

The Konocti Regional Trails (KRT) group has created a series of seven draft Water Trail maps on Clear Lake. These include:

Water Trail 1: [Rattlesnake Island](#) - 4 mile loop

Water Trail 2: [Tule Maze at Anderson Marsh](#) - 6 mile loop

Water Trail 3: [Cache Creek Dam](#) - 10 miles roundtrip

Water Trail 4: [Island Hopping in the Narrows](#) - 8 mile loop

Water Trail 5: [Volcanic Vents of Soda Bay](#) - 6-9 miles round trip

Water Trail 6: [Wetlands of Long Tule Point](#) - 8-10 miles round trip

Water Trail 7: [Rodman Slough](#) - 8 miles roundtrip

Clear Lake Water Trails

KonoctiTrails

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- VT1: Red Hills Terroir Trail

Bike Trails

Equestrian Trails

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- Trails Events Calendar
- Weather/Water Levels
- Lake County Videos
- Trails Photo Albums
- Other Trail Links

Projects

WT2: Tule Maze of Anderson Marsh



Length: 6.2 Miles Round Trip

Time: 3-4 hours

Experience Level: Beginner through advanced

Launch Area: Redbud Park Boat Launch, 14655 Lakeshore Drive, Clearlake, CA

Highlights:

- Wetlands, tule reeds
- Migratory waterfowl route
- Wildlife nature preserve
- Grebe nesting area
- Historic cultural resource
- State Park
- Picnic Spot.

Trail Description:

A favorite among birdwatchers, this is a scenic loop around Indian Island into the tule marshes of Anderson Marsh State Park, and traversing back into Cache Creek and the western shoreline of Clearlake.

Paddling at a leisurely pace, the jaunt takes about 3 hours and is a bird watcher's paradise. While the marsh itself is quite calm, be aware that winds can whip up large waves in the open waters off Redbud Park.



Trail Route:

The loop begins at Redbud Park (P) in the city of Clearlake. As you cross the lake, an island emerges from the background. Indian Island (1) was once a major village and community center for the Southeastern Pomo, housing as many as 1000 inhabitants. While the island is now privately-owned, a portion of these cultural resources are protected by the State Park System through a conservation easement. The extended Anderson Marsh area contains archaeological sites over 10,000 years old, making them

Clear Lake Water Trails

what is a water loop?

Water loops are recreational waterways on a lake, river, or ocean between specific locations, containing access points and day-use and/or camping sites for the boating public. Water loops emphasize low-impact use and promote stewardship of the resources, while providing healthy outdoor activity.

Lake County Water Loop maps can be found online at www.lakecounty.com or at Lake County Visitor Centers.



don't move a mussel!

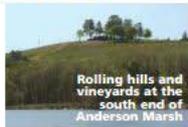
Help protect Lake County's beautiful lakes and creeks by preventing the spread of harmful plants, animals, and other organisms, such as Quagga and Zebra mussels. These aquatic nuisance species can hitch a ride on boats, trailers, clothing, gear, etc., and then spread to other bodies of water. If conditions are right, these invasive species can severely impact the aquatic ecosystem. Each time you leave any water body, be sure to thoroughly clean, drain, and dry all items that come in contact with water.

boat inspections

To protect local water bodies from invasive species, the County of Lake requires that certain types of vessels be inspected prior to launching in Lake County waters. While kayaks and canoes currently are exempt, information about the inspection program is available through the Lake County Mussel Hotline: (707) 263-2556 or www.co.lake.ca.us/mussels

reporting water pollution

If you see anything suspected to be pollution or disturbance of the waterways, report it immediately by contacting the Lake County Sheriff's Department at (707) 263-2690.



leave no trace

- Plan ahead and prepare for extreme weather, hazards, and emergencies.
- Respect wildlife—observe from a distance.
- Avoid disturbing wildlife especially during sensitive times: mating, nesting, raising young.
- Leave what you find. Examine, but do not touch, cultural or historic structures and artifacts. Leave rocks, plants, and other natural objects as you find them.
- Avoid introducing or transporting non-native species.
- Respect the privacy of landowners.
- Always ask permission before entering private land; unless otherwise posted, assume it is private property.
- Don't litter.
- Remember sound carries across water more clearly than on land; avoid loud noises or boisterous behavior.



respect wildlife



The Migratory Bird Treaty Act protects grebes and other migratory waterfowl. It is illegal to

- hunt, persecute, harass, kill, or disturb grebes and/or their eggs. Do your part to protect them:
1. Avoid nesting areas—stay 300 feet away from colonies and avoid prolonged presence.
 2. Watch your wake—move slowly when paddling around nesting areas.
 3. Take a scenic detour—paddle around flocks and colonies, not through them.
 4. Pack out your trash—adults and young can become tangled in fishing line and other plastic trash.
 5. Educate others to ensure the survival of these beautiful, valuable birds.
 6. Report any illegal activity to the CalTip hotline: (888) 334-2258.

watch for these other species:



paddling safety

All canoes, kayaks, and inflatable rafts must carry a U.S. Coast Guard-approved personal flotation device (life jacket) for each person on board. Before setting out, boaters should become knowledgeable about local conditions such as currents, rapids, flow levels, weather, and hazards.

- Test new or unfamiliar equipment before use.
- Leave word with a responsible person concerning your destination and when you will return.
- Always make sure your craft is in good repair.
- Securely fasten all gear within the craft or in waterproof containers that will float high and be easily retrievable.
- Learn how to swim; learn first-aid techniques and CPR.
- Paddlers are harder to see from other vessels. Keep paddling groups together. Avoid long lines.
- Watch for and avoid hazards such as fallen trees, brush, fences, bridge abutments, or old pilings.
- Do not boat under the influence of drugs or alcohol.

Additional recommended equipment: protective foot gear, extra paddle, anchoring device, bailing device/sponge, boating maps, flashlight, compass, first-aid kit, boat-repair materials, hat, sunglasses, whistle, sunscreen, waterproof storage bags, emergency light, water, GPS unit, cell phone, knife, and a 50- to 100-foot throw rope.

regulatory or advisory markers



cold water dangers

- Capsizing or falling overboard into cold water can cause immediate health problems, ranging from disorientation and hyperventilation to heart attack. Cold water quickly numbs hands and feet and saps overall strength. To increase your chance of survival in cold water:
- Always wear a personal flotation device (life jacket).
 - Get out of the water as fast as you can since you get colder faster in water than air.
 - Dress properly.

in case of emergency, call 911

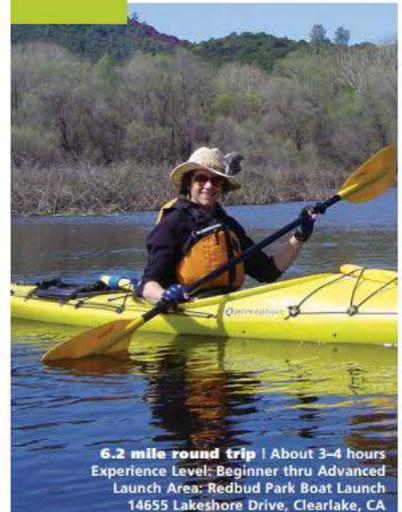
info and resources

Lake County Water Resources: (707) 263-2341
 Lake County Parks & Recreation: (707) 262-1618
 Lake County Sheriff (non-emergency) (707) 263-2690
www.lakecounty.com; www.konoctitrails.com;
<http://watershed.co.lake.ca.us/>

Clear Lake Water Loop 2

konocti regional trails

Anderson Marsh tule maze & islands



6.2 mile round trip | About 3-4 hours
 Experience Level: Beginner thru Advanced
 Launch Area: Redbud Park Boat Launch
 14655 Lakeshore Drive, Clearlake, CA

- Wetlands, tule reeds
- Migratory waterfowl route
- Wildlife nature preserve
- Grebe nesting areas
- Historic cultural resources
- State park
- Picnic spots

Lake County Visitor Information Center

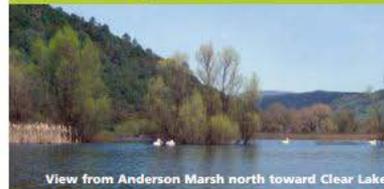
6110 East Highway 20, Lucerne, CA 95458
 (707) 274-5652 | (800) 525-3743 | (800) LAKESIDE
www.lakecounty.com | info@lakecounty.com



Clear Lake Water Trails



trail description



A favorite among birdwatchers, this is a scenic loop around Indian Island into the tule marshes of Anderson Marsh State Historic Park, and traversing back into Cache Creek and the western shoreline of Clear Lake. Paddling at a leisurely pace, the jaunt takes about 3 hours and is a bird watcher's paradise. While the marsh itself is quite calm, be aware that winds can whip up large waves in the open waters off Redbud Park.

trail route

The loop begins at Redbud Park (P) in the city of Clearlake. As you head across the lake to the opposite side, an island emerges from the background. Indian Island (1) was once a major village housing up to 300 people; it also was the political and religious center of the Koi Tribe for at least 8,000 years. While the island is now privately owned, a portion of these cultural resources are protected by the California State Park System through a conservation easement, and the island is included on the National Register of Historic Places. The extended Anderson Marsh area contains prehistoric archaeological resources that date back at least 10,000 years, making them among the oldest in California.

Paddle around the back side of the island and head south. To your right is the former site of McVicar Wildlife Sanctuary, which is now part of Anderson Marsh State Historic Park. A nice sandy beach off the tules is an inviting picnicking spot (2). Notice the volcanic rock of Indian Island; it is part of the formation known as Dacite of Thurston Creek. Lava eruptions and flows began approximately 450,000 years ago, forming the ridge you see



to the west as you paddle south from (1) to (5). After (4) you will encounter very little motorized boat traffic. Kick back and enjoy the quiet, interspersed with sounds

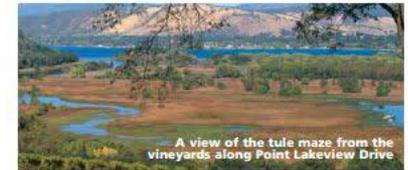
of nature. Rolling hills and vineyards are visible to the south. These hills are lava flows, part of the formation known as the Basaltic andesite of Round Top Mountain. Much younger in age; the flows started erupting roughly 125,000 years ago. Round Top Mountain is currently the site of a rock quarry; the vibrant red volcanic cinders are a favorite for landscaping.

You are passing the official marker to Anderson Marsh State Historic Park. From (4) to (5) you will paddle peacefully through the area informally dubbed "The Tule Maze." Over the years, 84 percent of the original wetlands on Clear Lake have been lost. But here, 540 acres of tule marsh have been designated a natural preserve. This remaining tule marsh is vital to the ecosystem of the entire lake, providing protection, food, and breeding areas for many species of wildlife and also filtering water flowing into the lake.

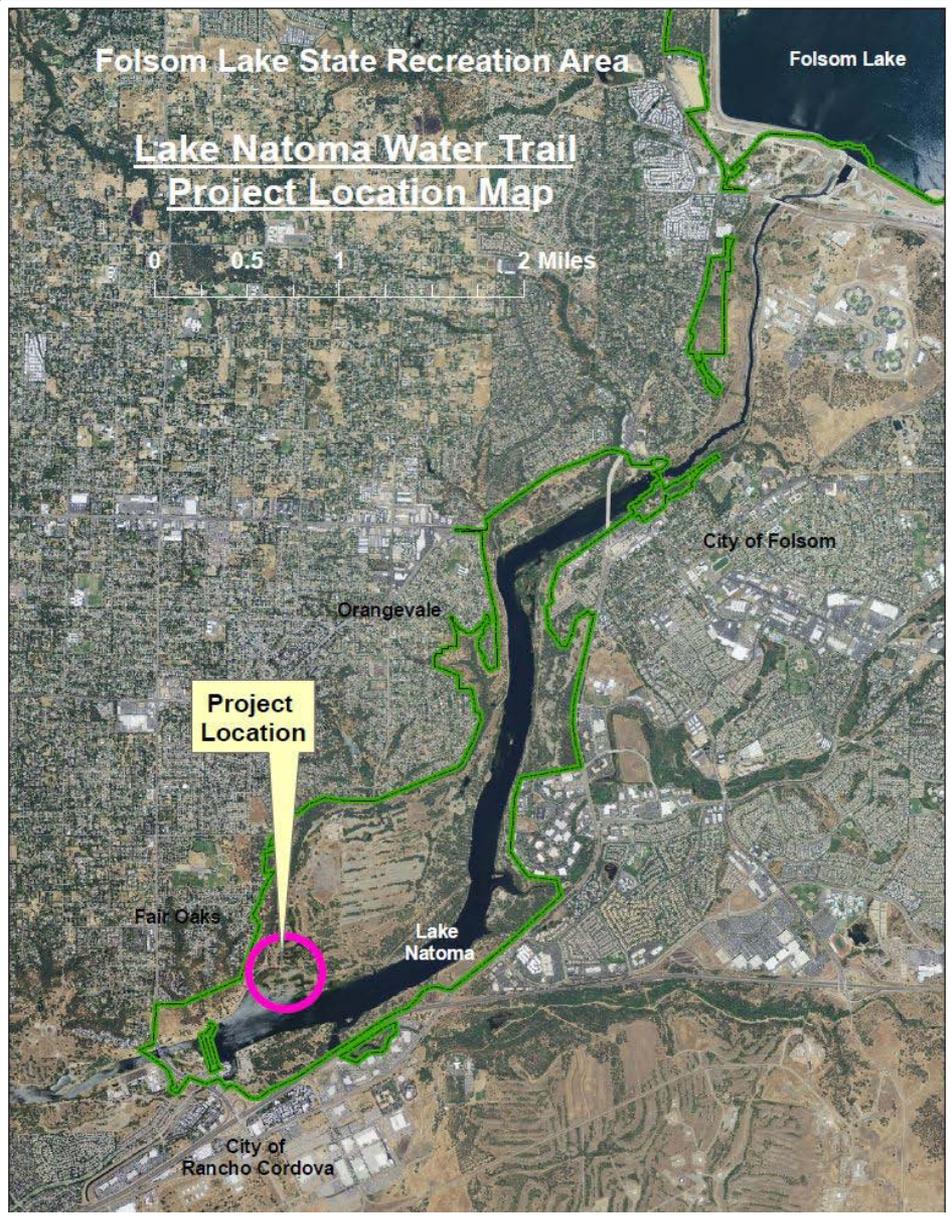
Birds commonly seen are grebes, white pelicans, herons, coots, mallards, and egrets with the occasional sighting of bald eagle and peregrine falcon. In the spring, please be especially aware of bird nests among the tule reeds and keep a respectful distance. This area is a grebe nesting site. Flocks of white pelicans also are a common site at this location, particularly during the winter migratory season. At least 150 bird species use the marsh and surrounding area. During the spring, spawning carp—some the size of small logs—can be seen jumping, causing quite a stir in the tule beds.

Depending on the lake level, you can weave through the tule marsh by following any open channel of water—waypoint (4) is the entrance to another canal leg. However, you will need to return following the same route because there is no shortcut through the tule maze. Please note if you venture further into the "swamp forest," it is easy to become lost. Be sure to follow the ridgelines and hills to orient yourself as you back out. The best time to visit is in the winter and spring months, due to higher water levels and large groups of migratory birds.

Heading back, veer east at (5) and paddle into the entrance of Cache Creek, which itself is another great adventure for a different day. Loop north around Garner Island (6), past the North Flat Day Use Area (7) that offers another good picnic site, and then hug the shoreline until you arrive back at the Redbud Park boat ramp.



Lake Natoma Water Trail



Lake Natoma Water Trail

Lake Natoma Water Trail – Proposed steel arch culvert



Photo #7 - Project Area #4, area to be dredged at existing culvert to enhance access.

Lake Natoma Water Trail

Lake Natoma Water Trail – Proposed steel arch culvert

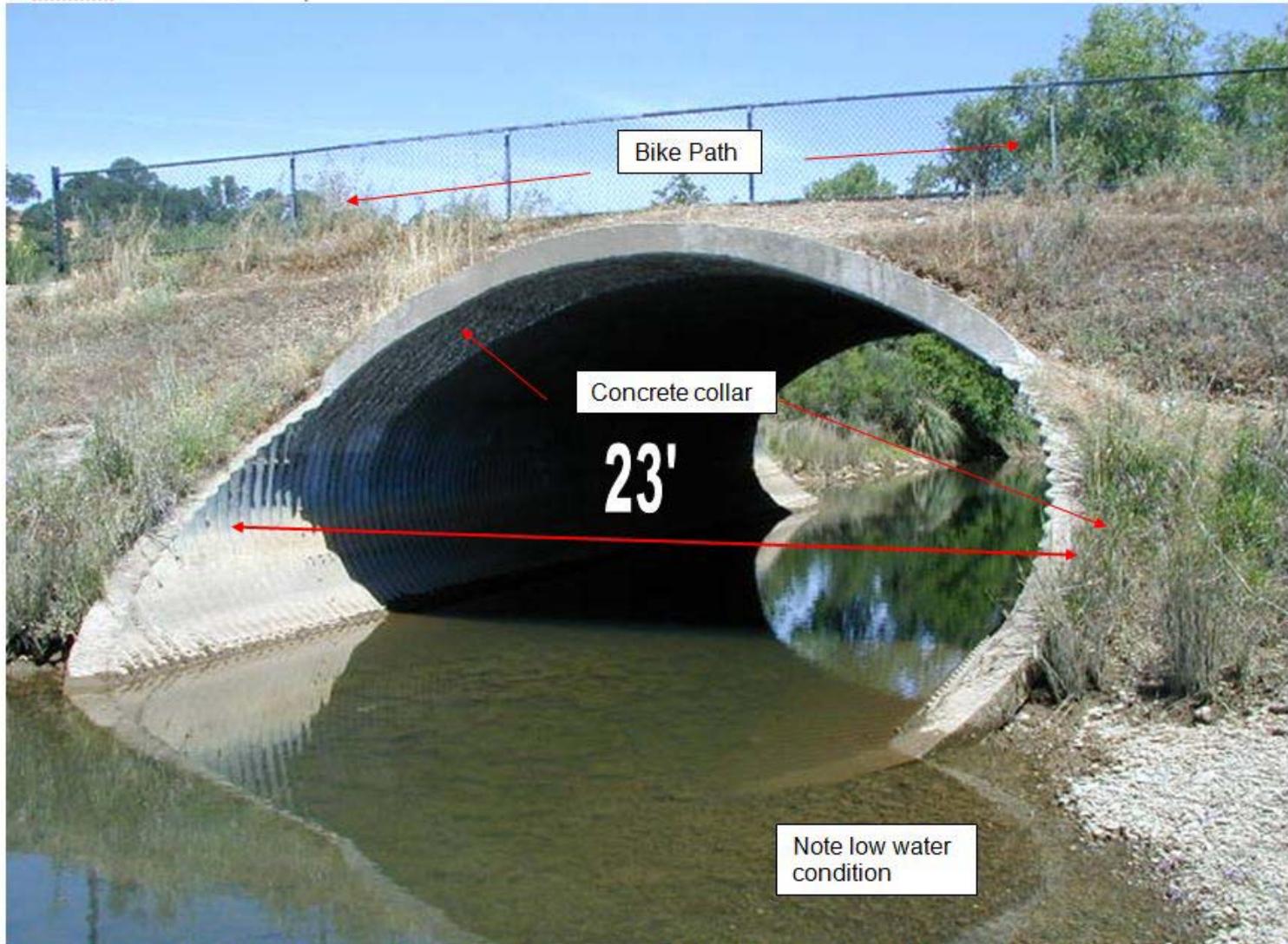
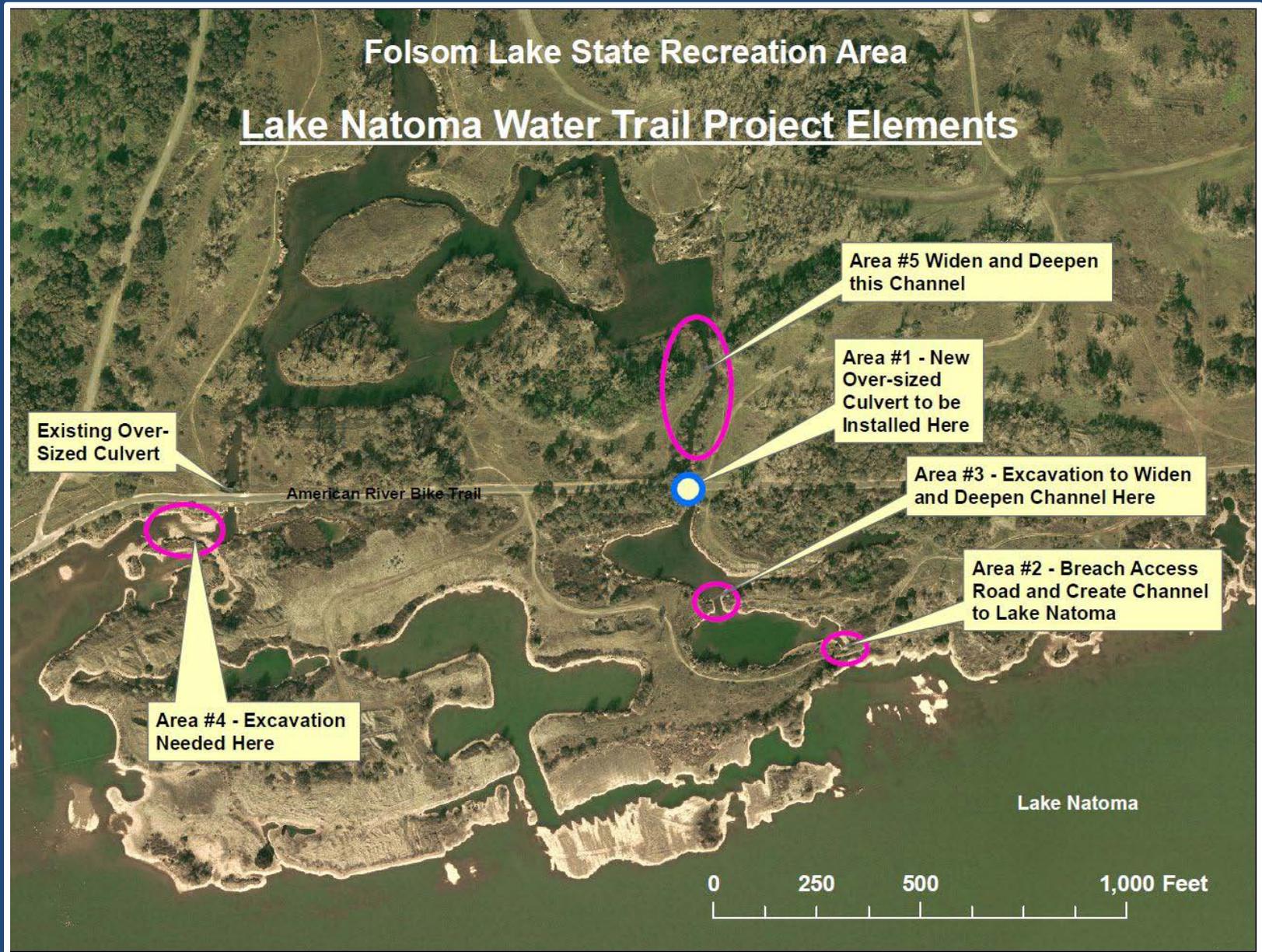


Photo #1 - Existing large steel multi-plate arch culvert pipe which functions as bridge for bicycle path users and water course path-thru for aquatic users

Lake Natoma Water Trail



Lower Owens River Water Trail



Inyo County Water Department

The cover of the 'Lower Owens River Recreation Use Plan' report. It features a collage of four small images: a mountain range, a river flowing through a valley, a close-up of water, and a road. The text on the cover reads: 'LOWER OWENS RIVER RECREATION USE PLAN', 'Prepared for Inyo County', and 'Prepared by: IWD', 'DRAFT PLAN', 'January 15, 2013'.

Lower Owens River Water Trail



Inyo County Water Department

Lower Owens River Water Trail



Inyo County Water Department



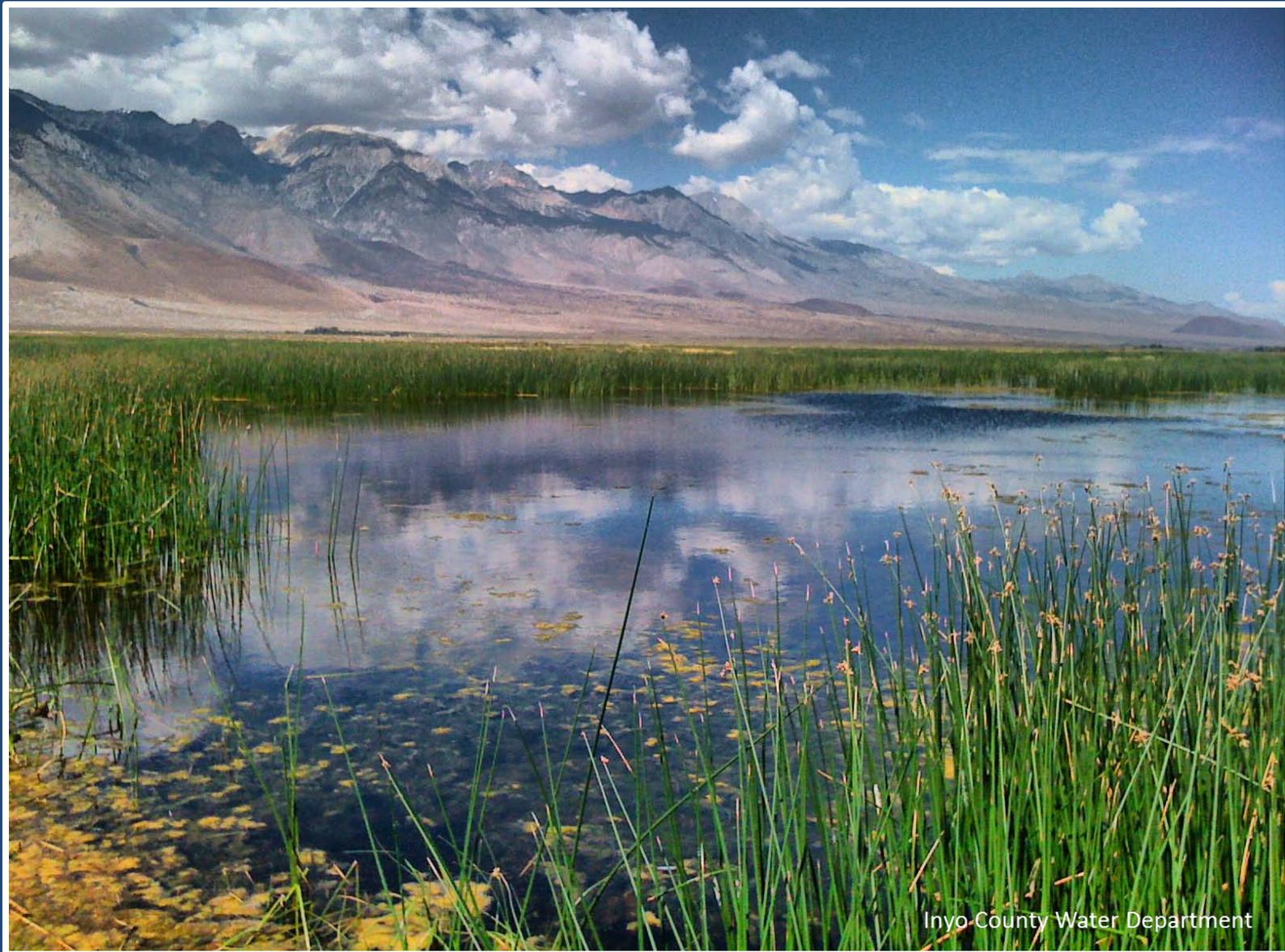
Inyo County Water Department

Lower Owens River Water Trail



Inyo County Water Department

Lower Owens River Water Trail



Inyo County Water Department

Benefits



Distribution of Maps & Information

- Website
- Brochure
- Signs
- Guidebooks

www.calusablueway.com/sites/calusablueway.com/files/phase_1.jpg

The Great Calusa Blueway - Estero Bay

Highlights & Access Points

- SAN CARLOS BAY - BUNICE BEACH PRESERVE**
GPS: N28 28 34 W01 58 02
This Lee County property offers beautiful scenery including sandy beaches, salt flats and mangroves. The 730-acre site offers excellent opportunities for birdwatching and photography. Kayak / SUP rentals and guided trips available through conservationist Kayak Expeditions. 239-297-7011. 239-297-7011.
- BOWDOICH POINT REGIONAL PRESERVE**
GPS: N28 27 48 W01 57 58
An exceptional 1,200-acre Lee County recreation area with sandy beaches on both the bay and the gulf, a boat launch to the beach, golfing, changing facilities and outdoor showers are available. Named for the famous seaman, Nathaniel Bowditch, Kayak / SUP rentals and guided trips available through conservationist Calusa Charters Tours at Bowdich Park, 239-938-5142. 239-533-7444.
- HOLIDAY ADVENTURE TOURS & BOAT RENTAL AT PINK SHELL RESORT & MARINA**
GPS: N28 27 38 W01 57 51
Kayak / SUP rentals, parking (free) and beachside amenities. 239-443-6441.
- SAN CARLOS RV PARK**
GPS: N28 28 05 W01 56 54
Full hook-up and operated resort surrounded by the bay. Tennis facilities. Also along the water's edge and for golfing, fishing and boating. Launch slips for guests of approximately 100. 239-446-1133 or 800-825-7275. 239-533-7444.
- SATY'S MARINA**
GPS: N28 27 28 W01 56 36
In addition to kayak rentals, this marina offers boatpaddle craft launching (kayak, SUP, canoe and kayak), food, restaurant, and powerboat rentals. 239-663-7333.
- MATANZAS PASS PRESERVE**
GPS: N28 27 05 W01 56 11
A diverse preserve where visitors can explore a maritime salt marsh and mangrove forest via two miles of boardwalk. Boardwalk includes wildlife craft landing. Historic cottages on site. 239-533-7444.
- THE MOUND HOUSE**
GPS: N28 26 44 W01 55 39
The oldest home on Fort Pierce Beach sits atop a Calusa shell mound that dates back 2,000 years. Facility is open for lunching Monday-Thursday, 9 a.m. - 4 p.m. Crochets open summer-mid-fall. Guided Land tours occasionally offered. 239-745-0845.
- FISH TAIL MARINA**
GPS: N28 24 47 W01 53 52
Kayak rentals, canoe and guided tours available through Cassi Women Kayaks. 239-220-0212. 239-642-5400.
- LOVERS KEY STATE PARK**
GPS: N28 23 27 W01 50 23
Call for the best park offers to a variety of amenities. Three launch sites within park, which has three restaurants, swimming, fishing. 239-443-4588. Kayak and canoe rentals and guided trips available through Lee County. Recreation Management of Lee County. 239-562-7781.
- DOG BEACH**
GPS: N28 22 49 W01 51 44
Dogs may run in this beach setting on protected water. Launch kiosk access from Dog Beach. 239-533-7444.
- BIG HICKORY ISLAND AREA LANCHES**
GPS: N28 22 02 W01 51 24
Sagehen Creek.
GPS: N28 22 49 W01 51 42 W
Karak Beach.
Primitive launches with free parking and access to barrier island beaches of Big Hickory Island's the Bonita Springs water tower. 239-533-7444.
- BOW THE ISLAND**
GPS: N28 22 35 W01 51 13
Banner Marker 8 is near this primitive site for tent camping, picnicking and boating. Private Launch No. Three privileges. 239-533-7444.
- MOUND KEY ARCHAEOLOGICAL STATE PARK**
GPS: N28 25 12 W01 51 43
This 100-acre island, consisting of large shell middens rising as high as 31 feet, is one of the best preserved sites within the Calusa culture. Mound Key is believed to be the capital of the Calusa when the Spanish arrived in Florida and the location of the first plantation in the Spanish New World. Accessible only by boat; canoe and kayak launches are located at trail heads on the northwest and southeast portions of the island. 239-992-0311.
- ESTERO RIVER SCRUB**
GPS: N28 26 21 W01 50 24
Part of Estero Bay Preserve State Park, this site features six miles of hiking, mountain biking and canoeing trails through 1,200 acres of scrub habitat. These scrub ridges are historic alone offering sprawling habitat for gopher tortoises and other plants and animals that tolerate dry conditions. Paddleback landing only. 239-992-0311.
- KOWHAMA STATE HISTORIC SITE**
GPS: N28 26 11 W01 49 10
One of Florida's largest historic parks features the remains of a Spanish garrison settlement founded by SPANISH KING PHILIP II. The site was founded on a religious illumination that led the Kowhama to believe that the earth was a hollow sphere with life existing on the interior surface. Canoe rentals are available. Entrance fee: 239-992-0311.
- ESTERO RIVER CANOE & TACKLE OUTFITTERS**
GPS: N28 26 06 W01 48 36
Canoe, Kayak, SUP rentals with kayak fishing instruction available. 239-992-4050.
- HICKORY BAY & TACKLE AT WEEKS LANDING**
GPS: N28 23 40 W01 50 23
One of the oldest rental sites on Estero Bay, the location of our parking area for powerboats, separate launch for kayakers. Kayak rentals, fish tackle and provision boat "rent" service on fishing spots for kayakers. 239-982-9000.
- BIG HICKORY FISHING NOOK**
GPS: N28 21 31 W01 51 26
Offers kayak and boat rentals, parking and restaurant. Public craft launch available nearby. 239-992-3742.
- IMPERIAL RIVER PRESERVE**
GPS: N28 20 16 W01 50 34
A 33-acre Lee County Conservation 2020 priority light for restoration with great bird watching. No facilities. 239-533-7275.
- RIVER PARK**
GPS: N28 20 14 W01 48 29
This site has great spots, boardwalks through mangroves and floating docks. While walking distance or plans to purchase lunch, provisions. 239-992-3554.
- IMPERIAL RIVER BOAT RAMP**
GPS: N28 20 19 W01 46 17
Canoe and kayak launch separate from river ramps. 239-533-7444.
- RIVERSIDE PARK**
GPS: N28 20 50 W01 44 44
Swimming, picnic tables, playground and more facilities. Canoe and kayak rentals and instruction available. Kayak rentals and tours available through conservationist Calusa Charters Tours at Riverside Park, 239-938-5142. 239-989-4242.

Map Legend:

- Accessible Public Land: County sites, State sites
- Wading Bird Feeding or Loafing Areas: At low and medium tides, these areas are the main formations of rooster beds in Estero Bay, providing habitat for all species of wading birds, probes and fish foragers.
- TRAIL MARKER: NOTE: Please note that trail markers are not numbered sequentially due to links in the trail.
- NOT FOR NAVIGATIONAL USE: For use in navigation, please refer to the National Oceanic and Atmospheric Administration's nautical charts.

Map Features: The Great Calusa Blueway 1, Estimated mile marks, Advanced paddlers, Trail markers, Channels, Trail markers, Boat Launch, Public Craft Launch, Parking, Assessment or Conservation, Flow, Picnic Facilities, Restrooms, Launch, Hiking, Camping, Canoeing, Kayaking, Paddle Facilities.

Map Labels: FORT MYERS BEACH, ESTERO, BONITA SPRINGS, SAN CARLOS PARK, Estero Bay Preserve State Park, Estero River, Bonita Beach Rd, Imperial River, Fish Trap Bay, Bonita Beach, Juncos Water, Spring Creek, New Pass, Big Hickory Pass, Big Carlos Pass, Estero Blvd, Estero Pass, Hurricane Bay, Little Pickens Bay, Ten Mile Canal, Mullock Creek, Henry Creek, Sumner Rd, Alico Rd, Bonita Beach, Bonita Point, Manasque Pass, Boreloch Point.

Map Scale: 0 1 2 MILES

Map Coordinates: 41, 41b, 75, LEE CO. COLLIER CO.

Map Footer: Great Florida Baiting Trail www.fishandwildlife.com Florida Greenways & Trails www.dep.state.fl.us/gwt/gwtinfo/



Identify Regional Needs



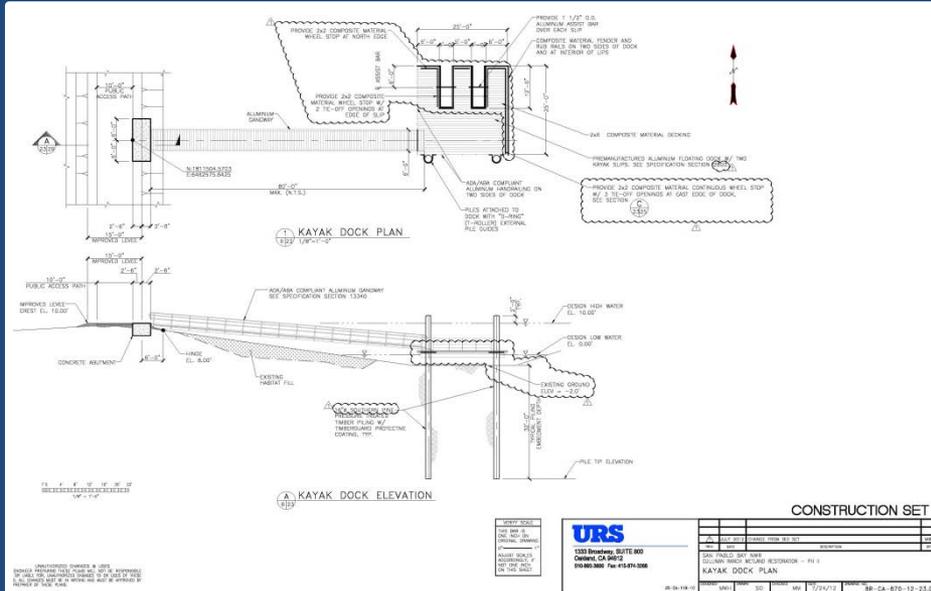
Partnerships



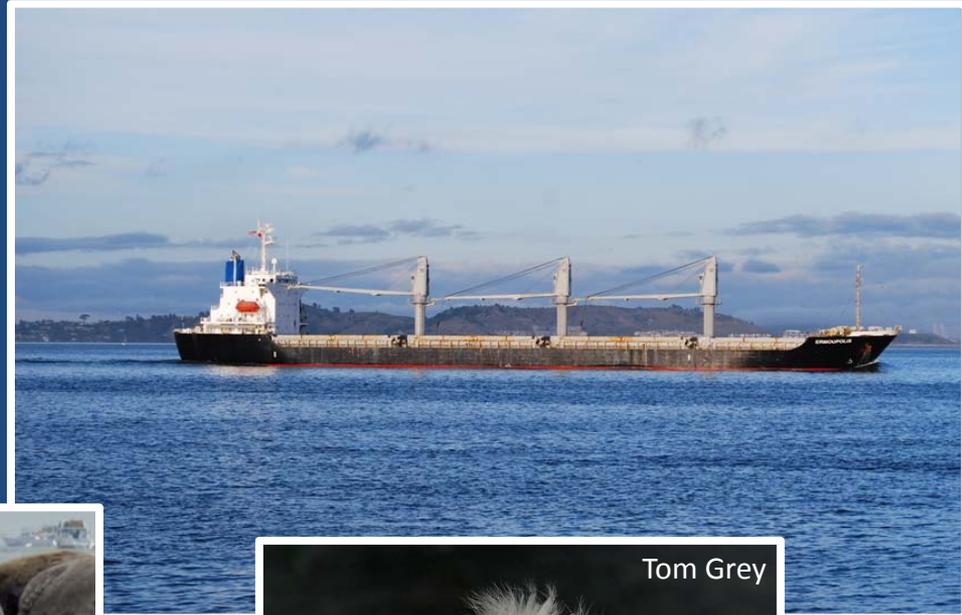
Scott Manchester



Mobilization



Address Conflicts



Tom Grey



Lyrinda Snyderman

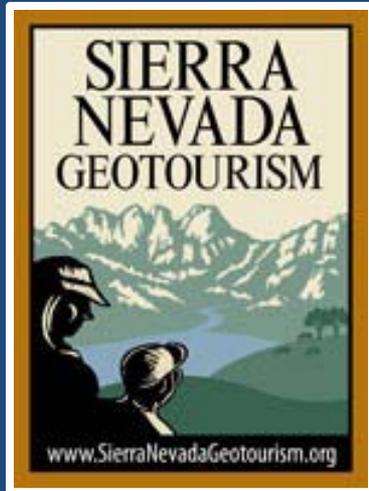
Engage the Public



Dan Sullivan/Save the Bay



Economic Development



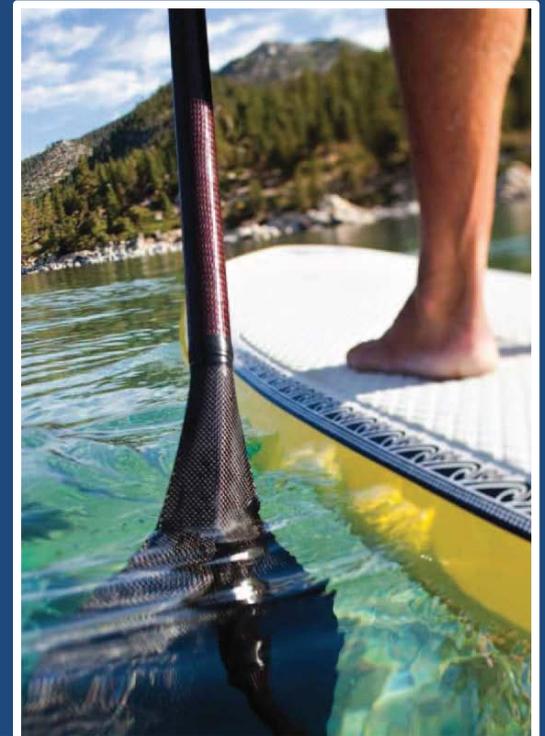
Sustainable Outdoor Recreation and Tourism Workshop

“Renewing Body and Spirit, Inspiring Passion for the Land”

February 23-25, 2010



Day Trips



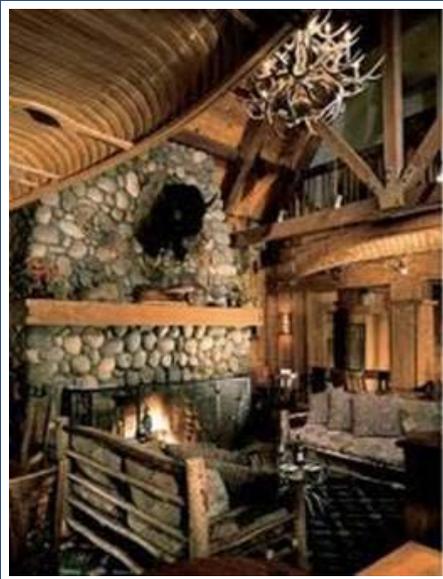
Sun, sky and water.
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Qualifies for 1A-1000 Mile Paddle Festival, August 11-12
Information and more events at GOTahoeNorth.com/events.

 north lake tahoe

Overnight Trips



Challenges



Management Along the Trail

Multiple jurisdictions

- Different Land Owners along the Route
- Water vs. Land

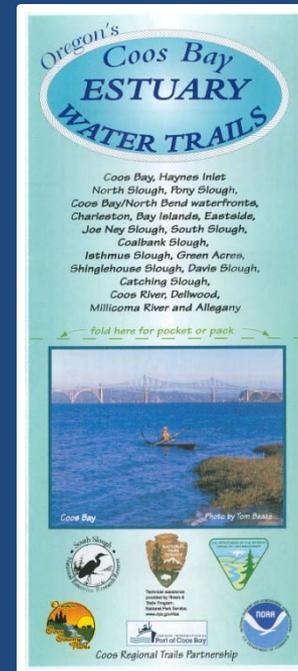


Collaboration

More Formal



Less Formal



Conflicts on Multi-Use Waterways



Conflicts at Launching/Landing Sites



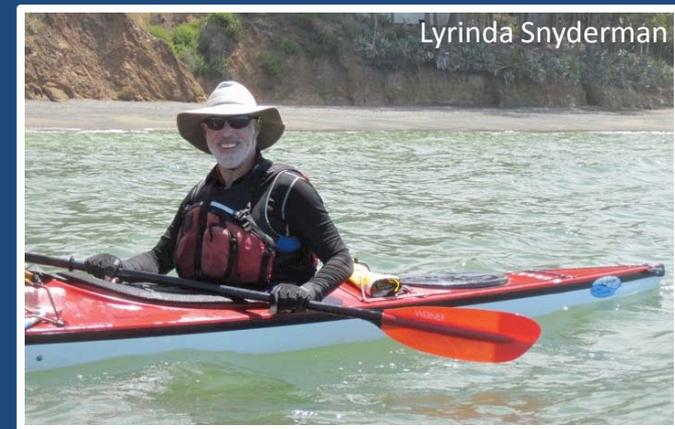
Boaters and Wildlife



U.S. Army Corps of Engineers



Mike Baird

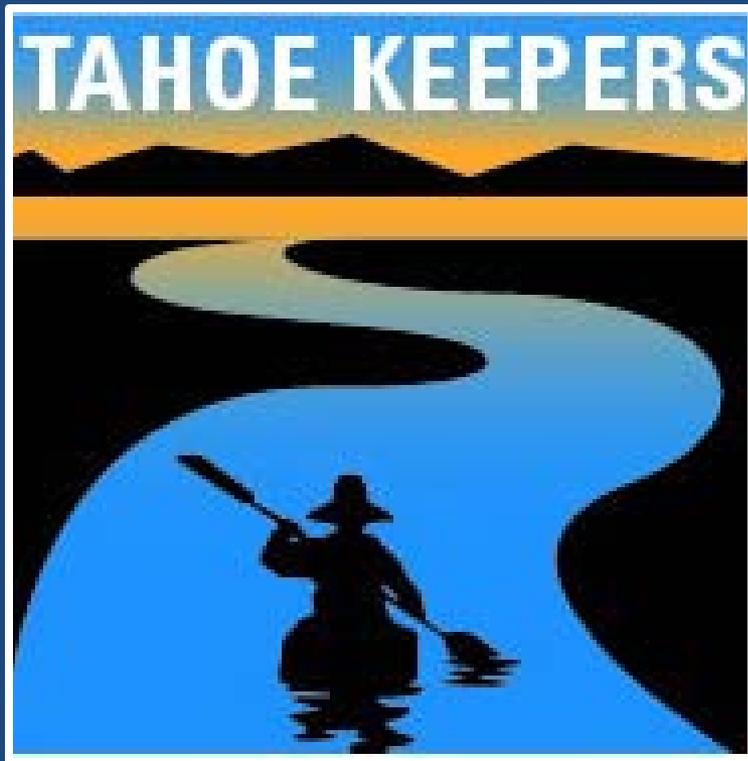


Lyrinda Snyderman

Potential Impacts



Potential Impacts



Education and Outreach



Wildlife Stewardship

Pay Attention to Behavior

When an animal has been disturbed, it will stop its normal activity (sleeping, eating, etc.) and watch you. This behavior may escalate to "flushing" or suddenly moving away.

Paddle at a Constant Speed

Avoid paddling directly at animals, and when you pass by them maintain constant direction and speed, and avoid sudden stops or changes.

Plan Your Trip to Avoid Sensitive Habitat

Avoid areas where you know there are sensitive species and only land in designated areas. Respect seasonal closures and wildlife buffer distances.

Want to learn more about the wildlife and habitat you see? Our website has information on the different species and how boaters can avoid disturbing them.

www.sfbaywatertrail.org

San Francisco Bay has so much for us to learn and discover. One of the rewards of using the Water Trail is seeing an amazing diversity of wildlife.

Sensitive Species



California Clapper Rail
Tom Grey

Roosting Brown Pelicans
Lyndia Snyderman



Western Burrowing Owl
Tom Grey

Harbor Seal Haul-out
Lyndia Snyderman



Nesting Snowy Egret
Tom Grey

Western Snowy Plover
Tom Grey



Flock of Wintering Ducks
Galli Basson

Some of these species and habitats are sensitive to humans. There are ways to boat that minimize disturbance to wildlife, rewarding the boater with observations of natural behavior.

California Clapper Rail

Size: Medium-size, chicken-like bird
Habitat: Salty and brackish marshes
Season: Year-round resident
Breeds: February – August

California Brown Pelican

Size: Large, with extendable throat pouch
Roosting Habitat: Piling, docks, seawalls
Season: Summer – Fall

Western Burrowing Owl

Size: Small owl
Nesting Habitat: Grasslands near Bay shore
Season: Year-round resident

Pacific Harbor Seal

Pupping & Resting Habitat: Terrestrial sites near Bay shore
Season: Year-round resident
Breeds: March – July

Nesting Herons and Egrets

Foraging Habitat: Wetlands and marshes
Nesting Habitat: Groves of trees near Bay shore
Season: Year-round resident

Western Snowy Plover

Size: Small shorebird
Nesting Habitat: Dry salt ponds or levees
Breeding Season: Early spring to mid-fall

Wintering Waterfowl

Foraging Habitat: Widespread in Bay
Season: October – April

Leave No Trace

Leave No Trace

Know Before You Go

- Plan your trip based on weather, tides, current, wind, and your own capability
- Be prepared for an emergency
- Use proper gear
- Inform others of your trip plan

Bag Your Trash

- Carry out all your trash

Be Careful With Fire

- Follow regulations for your campsite or BBQ structure

Keep Wildlife Wild

- Give wide berth to wildlife and do not harass, feed, or rescue wildlife
- Respect seasonal closures and wildlife buffer distances

Leave It As You Find It

- Leave plants and other natural objects where you find them
- Don't disturb cultural resources
- Leave only wakes

Land and Launch on Durable Surfaces

- Launch and land only where you can avoid trampling sensitive habitat, disturbing wildlife, or trespassing on private property

Yield to Others

- Know the Rules of the Road for boats
- Know where the shipping and ferry routes are and give ships the right of way
- Take responsibility for your safety

This copyrighted information was developed in conjunction with the Leave No Trace Center for Outdoor Ethics. For more information on Leave No Trace visit www.LNT.org or call 1-800-332-4100.

Be Safe

San Francisco Bay is one of the busiest ports in the world, influenced by tides, currents, and weather. Be aware of Bay conditions, know how to boat responsibly near other vessels, and be prepared for emergencies.

Wear a wetsuit and/or other insulating gear, a USCG-approved personal flotation device (and keep it snug), and carry emergency equipment such as radios, flares, whistles, and repair kits. Visit our website for more safety tips and links to real-time weather and tide information.

www.sfbaywatertrail.org

LEAVE NO TRACE ON MAINE'S

Fragile Islands

A Guide to
Low-Impact Techniques



Potential Impacts



Historical Attractions



Building It!

Challenges

- *Staffing*
- *Funding*
- *Regulatory Process*

Building It!

STAFFING

- Often there are many opportunities that slip by due to lack of staff to work on grant proposals and applications
- Some good ideas never get off the ground because there are insufficient staff or budgets to take care of new facilities

Building It!

FUNDING

- CA Department of Boating and Waterways has several grant programs to construct non-motorized boating access
- Other state funding agencies include the CA Wildlife Conservation Board and the various coastal, river and mountain conservancies

Building It!

REGULATORY PROCESS

- Army Corps Section 404 Permit which can also involve USFWS, NOAA Fisheries, U.S. EPA
- Regional Water Quality Control Board Section 401 Certification or Waiver
- CA Dept of Fish and Wildlife 1600 Streambed or Lakebed Alteration Agreement
- CA Coastal Commission permit
- Bay Conservation and Development Commission (also called BCDC) permit
- Americans with Disabilities Act compliance

Building It!

Timeline

- DBW grant application process (8 months)
- DBW budgeting process (12 months)
- DBW grant contracting process (3 months)
- Grantee consultant selection and hiring process (4 months)
- Project CEQA, permits and design process (18 months)
- Grantee bidding and awarding process (2 months)
- Project construction (6 months – more if confined to construction windows due to migratory or nesting concerns)

TOTAL = 53 MONTHS

Significantly less time needed if project stays out of the water, if the project only modifies an existing facility, or if Army Corps Nationwide Permits can be used

Building It!

Costs are highly variable and depend on:

- Project location (remote or close to population centers)
- Whether or not the project involves in-water work
- The size and scope of the project
- The level of accessibility desired

A typical DBW non-motorized boating access project will run between \$175,000 and \$650,000 to construct and may include components such as a boarding float, paved parking, a small concrete launching ramp, a prefabricated vault restroom, signage and small visitor amenities like message boards and trash receptacles

Boat Ramp Street, Richmond CA



Boat Ramp Street, Richmond CA



Before



After

Boat Ramp Street, Richmond CA



Before



After

Boat Ramp Street, Richmond CA



Alviso Marina County Park, Alviso CA



Old boat ramp

Old marina gate



Alviso Marina County Park, Alviso CA



New boat ramp location

Dredging the site



Installing ramp panels



Alviso Marina County Park, Alviso CA



Precast ramp panels

Finishing the ramp



Installing docks



Alviso Marina County Park, Alviso CA



Completed project

Regular freeboard and low
freeboard floats



Alviso Marina County Park, Alviso CA



Questions

