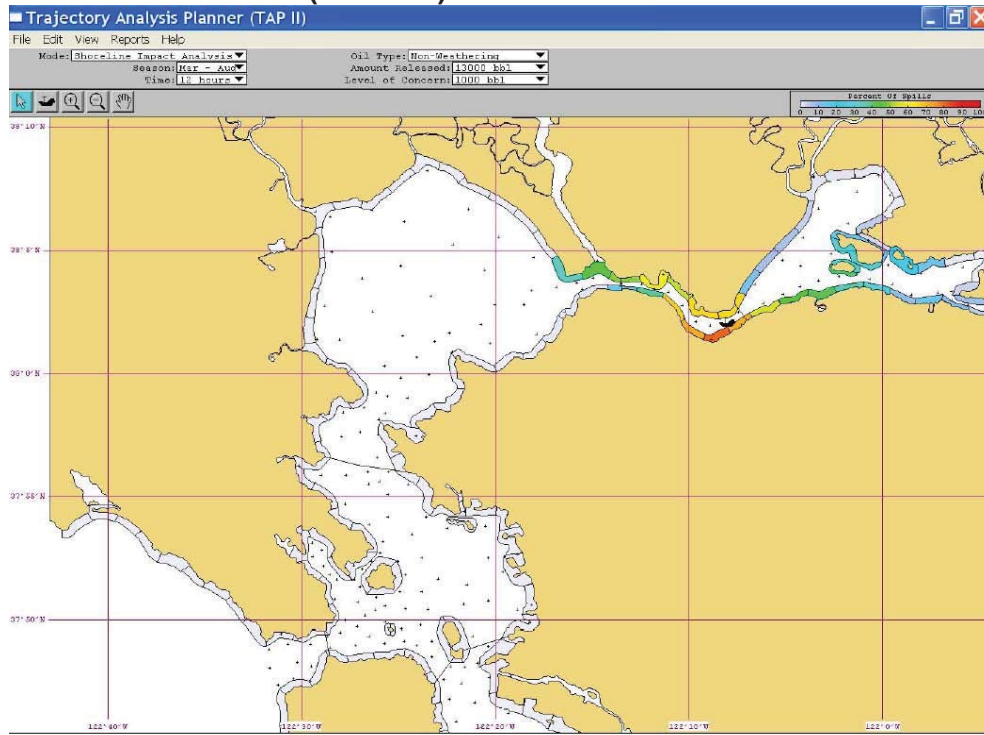


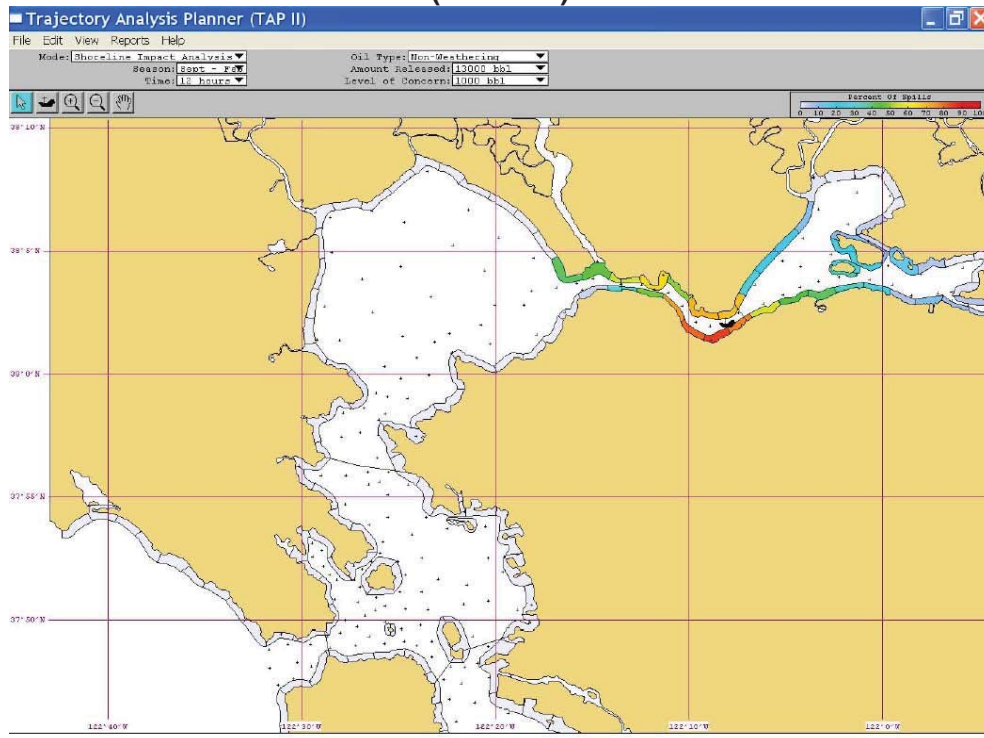
TRAJECTORY ANALYSIS PLANNER (TAP Model)

Location: 2-M23 (Carquinez Strait East: Anchorage 23)

MARCH – AUGUST (12 Hour)



SEPTEMBER – FEBRUARY (12 Hour)



PPOR Pre-Incident Information SummaCarquinez Strait East: Anchorage 23

Latitude 38° 2' 122.1 Longitude 122° 8' 122.142

County Solano

2-M23

Type:
Anchorage

Location Description:

Natural Resource Concerns and Issues for this Place / Site

Threatened and Endangered Species (TAES):

Martinez Marsh – (S/F E/E) California clapper rail and (S–T) black rail may use marshes occasionally, (S/F E/E) salt marsh harvest mouse and (S/F E/E) salt marsh wandering shrew, (F–E) soft bird's beak, (Rare plant) Delta tule pea.

Bull's Head Marsh and Pacheco Creek – (S/F E/E) California clapper rail, (S/F E/E) salt marsh harvest mouse, (S/F E/E) salt marsh ornate shrew. Hastings Slough and Point Edith Marshes – (S/F E/E) California clapper rail, (S–T) black rail, (S/F E/E) salt marsh harvest mouse, (SOSCs) salt marsh common yellowthroat and Suisun song sparrow, (F–E) soft bird's beak, (Rare plants) Mason's lilaeopsis, Delta tule pea on Seal Islands. Southampton Bay – (S/F E/E) California clapper rail, (S–T) black rail, (S/F E/E) salt marsh harvest mouse, (F–E) soft bird's beak.

Benicia Marsh – (S/F E/E) salt marsh harvest mouse may occur, (SOSCs) Suisun common yellowthroat and Suisun song sparrow, (Rare plants) Suisun marsh aster may occur.

Goodyear Marsh – (S/F E/E) California clapper rail, (S–T) black rail, (S/F E/E) salt marsh harvest mouse, (SOSCs) Suisun common yellowthroat and Suisun song sparrow, (F–E) soft bird's beak, (Rare plants) Suisun marsh aster, Delta tule pea. Goodyear sloughs support (S/F T/T) delta smelt.

East Carquinez Strait support (S/F E/E) winter–run Chinook salmon and (S/F T/T) delta smelt. (S/F E/E) peregrine falcon present at Benicia Bridge (March–August) and found in waters off Goodyear Marsh (November–February)

Sensitive Non–protected (Non–TAES) Species:

SFACP2: 601A,603A,605A,630B/C,651A,652A,654A; ESI/SFB–Maps 9 & 10.

Martinez Marsh supports marsh birds, ducks, shorebirds, and winter migratory waterfowl. Sheltered tidal flats support infauna and bird and fish foraging. Bull's Head Marsh/Pacheco Creek show habitat variation and support variety of wading and marsh birds year–round and migratory birds and ducks in winter, salt marsh ornate shrew.

Critical Habitat for TAES:

Goodyear Marsh designated wildlife refuge.

Critical Habitat for Non–protected (Non–TAES) Species:

PPOR Pre-Incident Information SummaCarquinez Strait East: Anchorage 23

Latitude 38° 2' 122.1 Longitude 122° 8' 122.142

County Solano

2-M23

Type:
Anchorage

Hastings Slough and Point Edith marshes of highest concern – immediate vulnerability to spreading due to large tidal prism, and show habitat variation. Suisun Shoal provides feeding habitat for fish when covered, resting/feeding habitat for water and shorebirds when exposed. Southampton Bay provides breeding/wintering habitat for many bird species (e.g., canvasback ducks in winter) with mudflats that extend more than 100 yards, salt marsh ornate shrew. Benicia Marsh and tidal flats provide habitat for marsh birds and waterfowl with 100 mallards and a dozen Canada geese at west end, and 400–1000 golden eye, scaups, and other birds in winter. The extensive Goodyear Marsh supports waterfowl, shorebirds, marsh birds for breeding, feeding, wintering and is managed as a waterfowl refuge. Goodyear also supports variety of semi-aquatic mammals including muskrat, beaver, mink, river otter and raccoon.

Subsistence–use Species:

Critical Habitat for Subsistence Species:

Essential Fish Habitat:

Historic and Cultural Resources:

Commercial Fisheries / Species:

Recreational Species and Habitat:

Juvenile California bay shrimp (March–October; adults present year–round. Juvenile Dungeness crab found east end Carquinez Strait (April–December).

Human Health / Safety Concerns and Economic Issues for this Place / Site

Human Health and Safety

Economic Impact on Maritime Commerce and Shipping:

Economic Impact on Commercial Fishing and Aquaculture:

Economic Impact on Non–maritime Commerce:

Economic Impact on Recreational Fishing and Marine Tourism:

Other Economic Impacts:

PPOR Pre-Incident Information SummaCarquinez Strait East: Anchorage 23

Latitude 38° 2' 122.1 Longitude 122° 8 122.142

County Solano

2-M23

Type: Anchorage

Stakeholder List for this Place / Site

Name / Title		Organization	Phone	more details
Dispatch		East Bay Regional Park District	(510) 881-1833	
Shoreline Unit Manag		East Bay Regional Park District	(510) 544-3172	
Park Supervisor		EBRPD-Martinez Regional Shoreline	(510) 544-3123	
City Of Benicia		Benicia, City of		
Blade Benson Environmental		Tesoro Golden Eagle Refinery	(925) 372-3042	
John Henderson FWS Biologist		US Fish & Wildlife Service, Environmental Contami	(916) 414-6595	
Damian Higgins		U.S. Fish & Wildlife Service	(916) 414-6548	
Tom Kellogg Engineer		MOTCO - US Army	(925) 246-4110	
Steve Overman Environmental		Shell Martinez Refinery	(925) 313-3281	
Nick Stubblefield Environmental		Valero Refining Company - Benicia	(707) 745-7883	
Barry Wysling		Martinez, City of	(510) 313-0938	

Characteristics and Tactical Considerations

Primary Jursidictional Contact: VTS

Approximate Tug Response Time: Marine Fire Fighting Resources: None

List of Nearby Environmentally Sensitive Sites: ACP Sites: 2-601A,2-603A,2-605A,2-630B/C,2-651A,2-652A,2-654A ESI/SFB Ma Is Containment Possible? ☐

Coast Pilot and Navigation Chart Information

Prevailing Winds	Tidal Range	Bottom Type	Max Water Depth	Min Water Depths	Currents	Sea Conditions	Fog	Shelter From Severe Storms	Navigational Approach	Pilot Requirements
NW	5'	Mud	49	31	3 Knots	Minimal	Yes - Wintel	Minimal	East-West	☐

Specific Site Details

Site ID	Site Name	Vessel Capacities		Site Capacities and Facilities		ContainmentPossibilities:
		Max Size	Mini Size	Max Draft	Swing Room or Dock Face concern	
23	Anchorage 23	Deep		38	1100	Limited by Pinole Shoal @ 38' for transit. Check current on NOAA Ports located at Tesoro Pier (Martinez 5). Carquinez Bridge vertical clearance limit is 102'.

Site Contact/Leasee/Owner: