

# US EPA Region 9 Draft Priority Actions for Climate Adaptation

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US EPA Region 9  
is developing a  
Climate  
Adaptation  
Implementation  
Plan

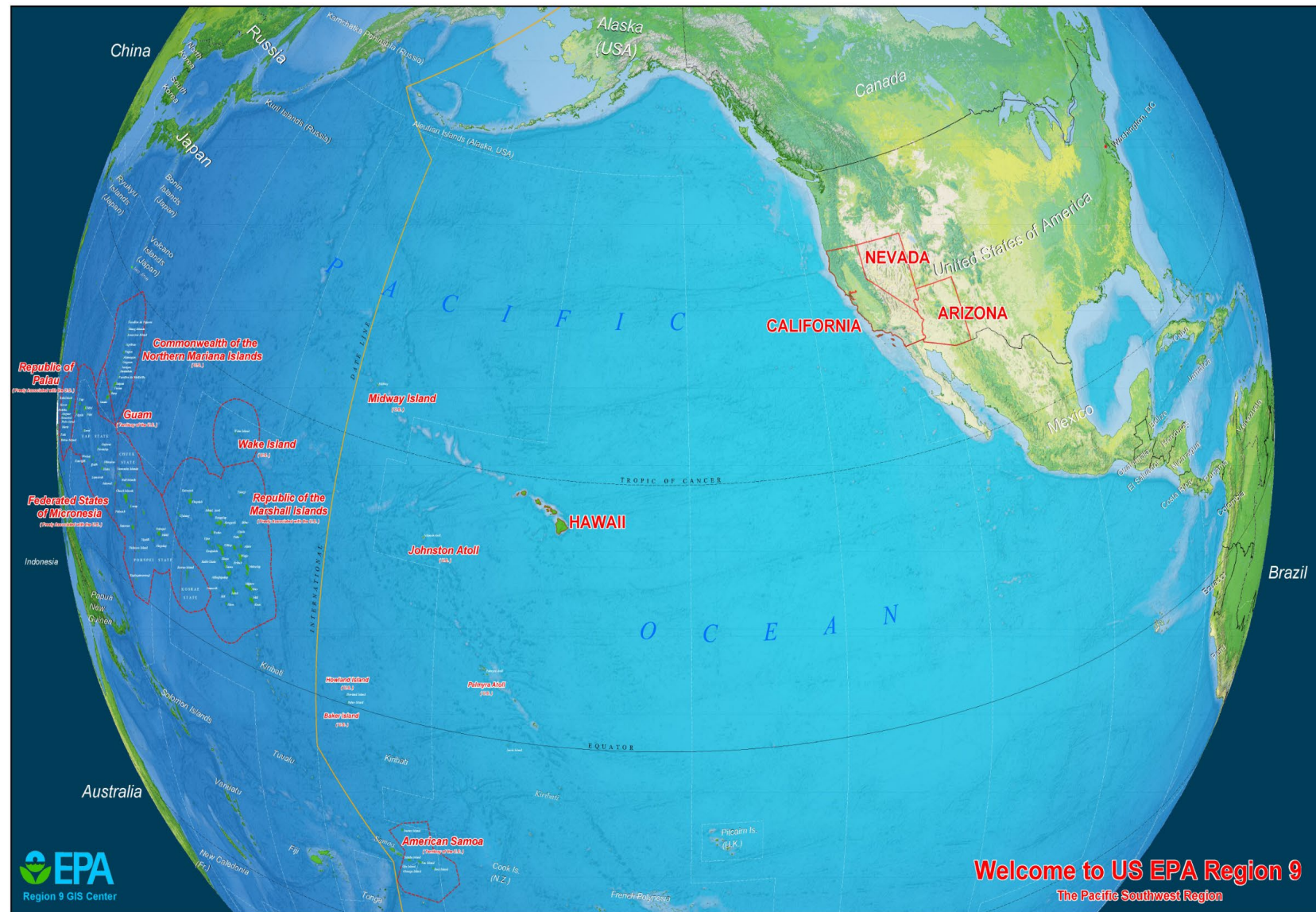
- In response to a request from EPA HQ, each EPA Region and National Program Office is developing a Climate Adaptation Implementation Plan.
- A key step in R9 Plan's development is identifying Priority Actions for Climate Adaptation.
- The 10 Priority Actions proposed by Region 9 are identified below.



Region 9 has a broad and diverse landscape...

... and a broad range of climate change impacts, including:

- **Southwest** – drought.
- **Mountains** – drought, wildfire.
- **Coastline** – storm surge, sea level rise.
- **Pacific Islands** – typhoons and hurricanes, sea level rise, ocean warming and acidification.







US EPA Region 9 Div.	<b>Region 9 Draft Priority Actions for Climate Adaptation (out of 38 proposed actions)</b>	EPA National Priority Category #
TIPD #1	Build Tribes' Climate Change Adaptation Capacity	2,5
TIPD #2	Host Binational and Border Region Climate Change Webinars with a focus on Tribes and Communities	2,5
TIPD #3	Assist the Commonwealth of Northern Mariana Islands to Build Typhoon Resilience	2
OPA	Protect Children and Communities from Wildfire and Extreme Heat Effects	2
ARD	Reduce Exposure to Wildland Fire Smoke	2,3,5
ECAD	Target Compliance Inspections to Facilities Vulnerable to Climate Change Impacts	1,2
LCRD	Implement Climate Change Impacts on Remedy Resiliency at RCRA and TSCA PCB Cleanup Sites and Permitted Facilities	1,2
SEMD #1	Incorporate Climate Change Resilience into Remedy Selection and Protectiveness Determinations for Currently Listed Superfund Sites	1,2
SEMD #2	Develop Contingency and Communications Plans for Private National Priority List (Superfund) Sites Vulnerable to Extreme Weather Events or Wildfire	1,2
WD	Increase Beneficial Reuse of Dredged Material as a Critical Climate Adaptation and Resilience Strategy	2

# Region 9 Draft Priority Action #1



## **Build Tribes' Climate Change Adaptation Capacity to Develop, and Update Climate Vulnerability Assessments and Adaptation Plans**

**Climate Impact:** All. Specifics depend on the individual Tribe, as each Tribe is different.

**Lead:** R9 Tribal Intergovernmental and Policy Division, Tribal Branch

**Timing:** FY 22

**Partners:** Federally Recognized Tribes

**EPA Climate Adaptation Priority:** 2, 5

**Why is this a priority?** Builds resilience of Tribes.

# Region 9 Draft Priority Action #2



## Host Binational and Border Region Climate Change Webinars with a Focus on Tribes and Communities

**Climate Impact:** Drought and other impacts

**Lead:** R9 Tribal Intergovernmental and Policy Division

**Timing:** FY 22

**Partners:**

- Federally Recognized Tribes
- Counties and Cities on both sides of the Border
- State Environmental Agencies in CA and AZ
- NOAA

**EPA Climate Adaptation Priority:** 2, 5

**Why is this a priority?** Builds resilience of Tribes and communities with a focus on EJ, and is a priority for EPA partners.

# Region 9 Draft Priority Action #3

## Assist Commonwealth of Northern Mariana Islands to Build Typhoon Resilience

**Climate Impact:** Typhoons

**Lead:** R9 Tribal Intergovernmental and Policy Division, Pacific Islands Office

**Timing:** FY 22 & 23

### Partners:

- EPA Region 2
- R9 Brownfields and Solid Waste Programs
- Commonwealth of Northern Mariana Islands BECQ, Dept of Public Works, and Office of Planning and Development
- Mayors Offices of Tinian and Rota
- Integrated Solid Waste Planning Team with participants from Saipan, Rota and Tinian.

### EPA Climate Adaptation Priority: 2

**Why is this a priority?** Builds resilience of Territory and the indigenous Chamorro and Carolinian communities, and is a priority for EPA partners.





# Region 9 Draft Priority Action #4

## Protect Children and Communities from Wildfire and Extreme Heat Health Effects

**Climate Impact:** Wildfires and Extreme Heat Events

**Lead:** R9 Office of Public Affairs, Childrens Environmental Health Program

**Timing:** FY 22 & 23

### Partners:

- R9 Air & Radiation Division, Indoor Environments Team, and Border Program
- EPA OCHP, OAQPS, OAR, OCR
- Bay Area AQMD
- Pima Co (AZ) Health Dept
- Western States Pediatric Env. Health Spec. Unit
- Tribes, schools, communities using Air Quality Flags

### EPA Climate Adaptation Priorities: 2

**Why is this a priority?** Builds resilience of children, communities and individuals with chronic conditions, addresses a key climate impact (wildfire), and is a priority for EPA partners.





# Region 9 Draft Priority Action #5



## Reduce Exposure to Wildland Fire Smoke

**Climate Impact:** Wildfires and resulting Smoke

**Lead:** R9 Air and Radiation Division

**Timing:** FY 22 & 23

### Partners:

- EPA Regions 2, 4, 8, and 10
- EPA Office of Air Quality Planning and Standards & ORD
- US Forest Service
- Tribes
- States
- Air Districts
- Western States Pediatric Environmental Health Specialty Unit
- Communities, community organizations, and schools

### EPA Climate Adaptation Priorities: 2, 3 & 5

**Why is this a priority?** Builds resilience of communities and individuals with chronic conditions, addresses a key climate impact (wildfire), and is a priority for EPA partners.

# Region 9 Draft Priority Action #6



## Target Compliance Inspections to Facilities Vulnerable to Climate Change Impacts

**Climate Impact:** All

**Lead:** Enforcement Compliance Assistance Division,  
Data Solutions Branch

**Timing:** FY 22 & 23

**Partners:**

- EPA HQ OECA inspection targeting staff,
- State agencies such as CalEPA, CARB and the California Water Boards.

**EPA Climate Adaptation Priority: 2**

**Why is this a priority?** Builds resilience of communities and uses existing EPA authorities, knowledge, and skills.

# Region 9 Draft Priority Action #7



## Implement Climate Change Resiliency into Remedy Protectiveness at RCRA and TSCA PCB Cleanup Sites and Permitted Facilities

**Climate Impact:** Coastal Storm Surge, Sea Level Rise, Groundwater Table Rise, and Wildfires.

**Lead:** Land, Chemicals and Redevelopment Division; Corrective Action and Permits Offices.

**Timing:** FY 22 & 23

**Partners:**

- State agencies, Tribal agencies, and RPs

**EPA Climate Adaptation Priorities:** 1, 2

**Why is this a priority?** Builds resilience of communities, builds effectiveness of EPA programs, addresses key climate impacts, and uses existing EPA authorities, knowledge, and skills.



# Region 9 Draft Priority Action #8

## Incorporate Climate Change Resilience into Remedy Selection and Protectiveness Determination for Currently-Listed Superfund Sites

**Climate Impact:** Flooding, Wildfires, Drought, Hurricanes, Sea Level Rise

**Lead:** Superfund and Emergency Management Division

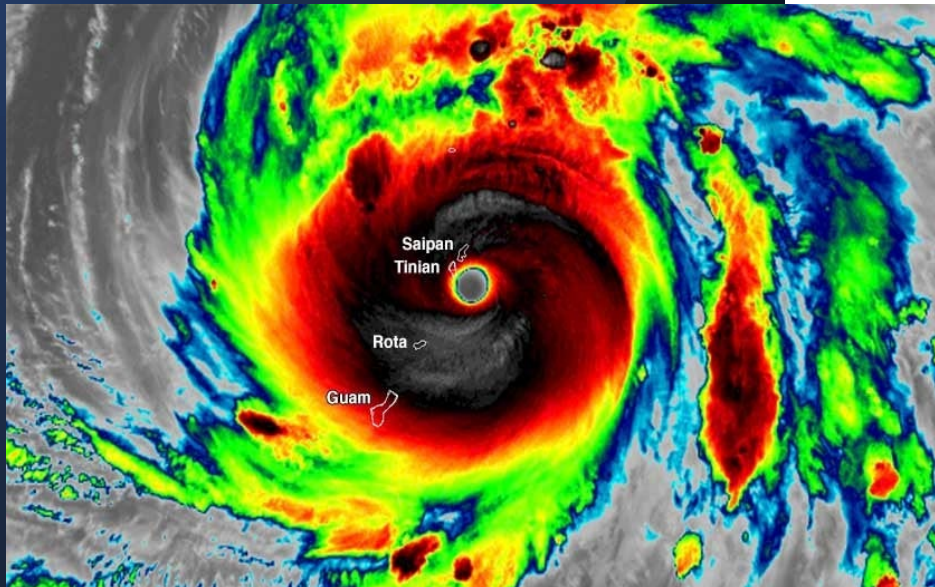
**Timing:** FY 22 & 23

**Partners:**

- Stakeholders such as Tribes, Dept. of Defense, Potentially Responsible Parties or other private or federal stakeholders.

**EPA Climate Adaptation Priorities:** 1, 2

**Why is this a priority?** Builds resilience of communities, builds effectiveness of EPA programs, addresses key climate impacts, and uses existing EPA authorities, knowledge, and skills.



# Region 9 Draft Priority Action #9



## **Develop Contingency and Communications Plans for Private National Priority List (Superfund) Sites Vulnerable to Extreme Weather Events or Wildfire**

**Climate Impact:** Flooding, Storm Surges, Wildfires

**Lead:** Superfund and Emergency Management Division

**Timing:** FY 22 & 23

### **Partners:**

- EPA Offices and External organizations hosting tools and holding data for performing geospatial comparisons and prioritizing the
- Contingency planners and emergency responders at Federal, State and local departments.

**EPA Climate Adaptation Priorities: 1, 2**

**Why is this a priority?** Builds resilience of communities, builds effectiveness of EPA programs, addresses key climate impacts, and uses existing EPA authorities, knowledge, and skills.

# Region 9 Draft Priority Action #10



## **Increase Beneficial Reuse of Dredged Material as a Critical Climate Adaptation and Resilience Strategy**

**Climate Impact:** Flooding, Wildfires, Drought, Hurricanes, Sea Level Rise, Storm Surges

**Lead:** Water Division, Wetlands Section

**Timing:** FY 22 & 23

### **Partners:**

EPA OWOW Workgroup

- National Marine Fisheries Service, US FWS & USACE
- Calif. Regional Water Boards,
- San Francisco Bay Conservation and Development Commission
- Calif. Coastal Commission, and Calif. Coastal Conservancy,
- Port of Long Beach,
- San Francisco Estuary Institute

### **EPA Climate Adaptation Priority: 2**

**Why is this a priority?** Builds resilience of communities and their resources, builds resilience to a key climate impact (sea level rise), uses existing EPA authorities, knowledge, and skills; and is a priority for EPA partners.



# Region 9's Draft Priority Actions for Climate Adaptation

Any questions?

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