

DECEMBER 8, 2021

Stakeholder Engagement Committee Meeting

Meeting Agenda

1	Welcome/ Call To Order				
2	Roll Call				
3	Minutes Review: September 22, 2021 Regular SEC Meeting				
4	Updates & Committee Discussion				
	4a. DCA Review and Updates				
	4b. DWR CEQA Status Update				
	4c. SEC Questions or Comments on September 22 nd Meeting Presentation				
	4d. Public Comment on Item 4				

5	Presentations & Committee Discussion					
	5a. Updated Intake Conceptual Design					
	5b. Overall Review of Conceptual Designs					
	5c. Ongoing DCA Outreach Efforts					
	5d. DWR Outreach Overview for 2022					
	5e. Proposed SEC Sunset Process					
	5f. Public Comment on Item 5					
6	Non-Agendized SEC Questions or Comments					
7	Public Comment on Non-Agendized Items					



Item 4a.



Item 4b.





Delta Conveyance Project: Environmental Review Update

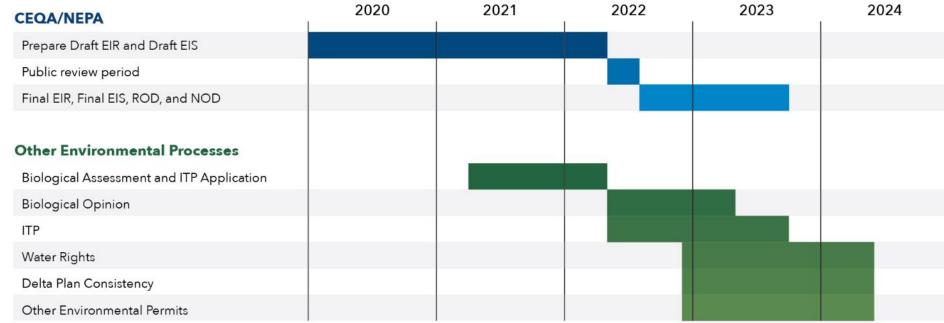
Carrie Buckman

Environmental Program Manager



Current Project Schedule

Delta Conveyance Project Schedule





Environmental Planning Update

- California Environmental Quality Act (CEQA): technical studies, impact analysis, preparation of Draft EIR
- National Environmental Policy Act (NEPA): United States Army Corps of Engineers proceeding to develop EIS
- Soil Investigations: field work under Initial Study/Mitigated Negative Declaration on a winter break
- Section 404 of the Clean Water Act: proposed project amended to Bethany Alternative because it has fewer impacts to wetlands and waters

Item 4c.

SEC Questions or Comments on September 22nd Meeting Presentation

Agenda:

- Air Quality Analysis Methods
- ·Ongoing Outreach Efforts
- •Engineering Updates

Item 4d.





Item 5a.

Updated Intake Conceptual Design

Sacramento River Flood Model

Purpose: Assess if new intake structures could cause river levels to increase during flood conditions

HECRAS 2D Model

- Terrain surface
 - Sacramento River Bathymetry 2019 & CVFED LiDAR
- Sacramento River Reach: Sac R08 (~26-Mi)
 - Upstream Boundary at Confluence Sacramento & American Rivers
 - Downstream Boundary at Sutter Slough

DCP Features

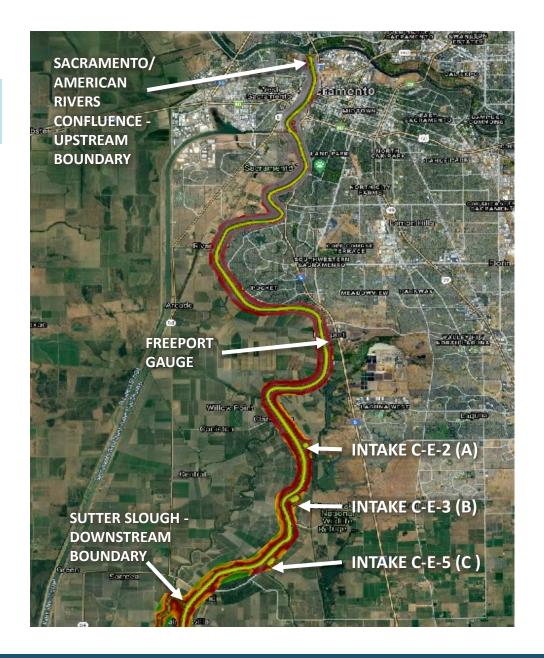
- Intake Structures
 - Cylindrical Tee Screen Configuration
 - Permanent and Construction Configurations

Flood Flow Scenarios

- USACE 1957 Design Flood Profile/Flow
- CVFPP 100/200-year Events
 - Existing and Future

Water Surface Increase Limitation Goal

- <0.1 Foot Maximum Increase in Water Surface Elevation
 - Based on Recommendations from USACE and CVFPB
 - Considered Insignificant Impact by USACE and CVFPB



Flood Modeling Conceptual Design Update

Compliance achieved for water surface increase < 0.1 foot

Compliance led to reduction in cofferdam size and moving intake structures back 15 feet landward versus the initial layout

- Construction cofferdam was controlling case
- Permanent facility had even lower increase

• Intake structure change results:

- Nominally decreased sheet pile count (< 10 pairs/intake)
- Increased excavation in river
- Increased riprap placement in river

Increase excavation and riprap placement:

- Increase in barge trips
- Previous estimate was 16 roundtrips per intake (3000 cfs capacity)
- Two (2) barge roundtrips per day is unchanged
- No barging on weekends is unchanged

Intake	Intake C-E-2	Intake C-E-3	Intake C-E-5	
Design Capacity	1500 cfs	3000 cfs	1500 cfs	3000 cfs
Total Barge Roundtrips	21	47	27	34

Item 5b.

Overall Review of Conceptual Designs

Conceptual Design Objectives

- Work started with the proposed corridors included in the Notice of Preparation
- At DWR's request, DCA set out to develop conceptual designs and engineering information for CEQA analyses
- Conceptual designs would attempt to minimize effects of the project on Delta communities and terrestrial and aquatic habitats
- Develop conceptual designs that reflect community input, through platforms such as the SEC and community meetings, with emphasis placed on:
 - Siting of facilities
 - Better understanding potential traffic and waterway effects
 - Reducing construction-related effects
 - Minimize disturbance to existing lands used for farming, wildlife habitats, communities, etc.
- Focus on engagement and transparency through the conceptual design process

CENTRAL
TUNNEL
CORRIDOR
CORRIDOR

INTAKES

SOUTHERN

COMPLEX

BETHANY CORRIDOR, BETHANY COMPLEX & DISCHARGE

Implementation of the Stakeholder Engagement Committee



- The DCA Board unanimously approved Resolution No. 19-12 on September 19, 2019, which outlined the SEC's purpose, scope, and membership.
- Up to 20 Committee Members participated in the SEC
- Represent wide array of interests and geographies
- DCA Board Representatives
 - Chair Sarah Palmer
 - Vice Chair Barbara Keegan
- 19 SEC Committee Meetings
- November 2019 thru December 2021
- Over 65 agendized SEC presentations

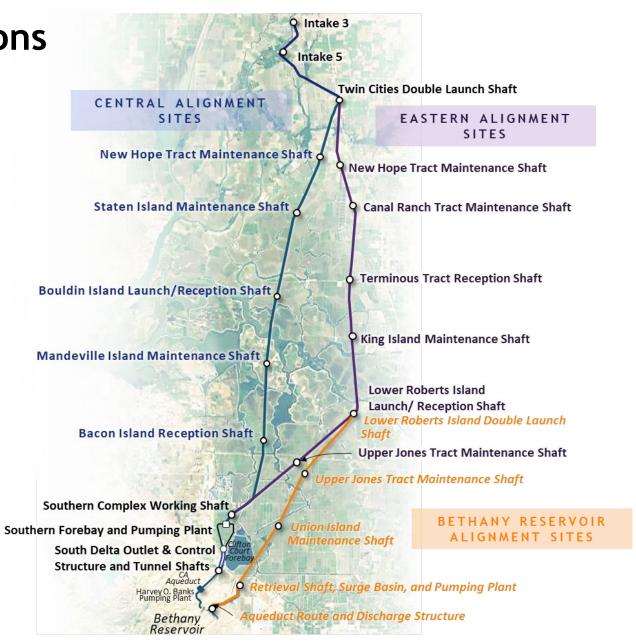
The SEC represented a wide array of interests and geographies in the following 18 areas:

- Agriculture
- Recreation
- Sports Fishing
- Environmental NGO
 - Terrestrial
- Environmental NGO
- Aquatic
- Environmental Justice
- North Delta Local Business
- South Delta Local Business
- Delta History & Heritage

- Tribal Government Representative
- Delta Water District
- At Large Yolo County
- At Large Solano County
- At large San Joaquin County
- At Large Sacramento County
- At Large Contra Costa County
- Public Safety
- Ex-Officio

SEC Conceptual Design Presentations

- Introduction to the Proposed Delta Conveyance System
- Detailed review of key project elements:
 - -Intakes
 - -Tunnel and Shafts
 - -Southern Facilities
 - -Bethany Complex
- Siting Alternative Studies
- Construction Footprints
- Logistics and Traffic
 - -Proposed roads, barge landings and rail spurs
 - -Routes to each site
- RTM Management
- Ongoing design changes



Summary of Conceptual Design Efforts to Minimize Community Effects

Avoid increasing demand for existing emergency services in the Delta Manage flood risks to the project facilities and existing land uses Manage seismic risks to people and property Minimize activities that produce noise, dust, greenhouse gas emissions, traffic, and land use disturbances Minimize construction effects to existing infrastructure or other community resources 5 Minimize construction traffic and associated effects Minimize disturbance to existing land uses, including agricultural land, residences, and wildlife habitat Minimize disturbance to sensitive wildlife and protected habitat areas Minimize effects on Delta water-based recreation and navigation Minimize noise during construction and operations

Avoid increasing demand for existing emergency services in the Delta

 Emergency response facilities would be constructed at the intakes, tunnel launch shaft sites, Southern Complex/Bethany Complex

communities to increase their longterm emergency response capabilities

BURNATION BURNATION

Intake 3 (B)

Ambulance, Recue Boat, Fire Truck and crew on site

Fire Water On-site storage at 300,000 gallons to provide up to 2,500 gallons/minute for 2 hours

Space for a 60-foot diameter paved helipad without tree coverage would only be used for emergency evacuations

Manage flood risks to the project facilities and existing land uses



- Design all project facilities for 200-year flood elevation with Sea Level Rise and Climate Change projected for year 2100
- Provide structural and non-structural flood risk mitigations throughout the project
- Avoid use of levee roads for heavy construction traffic and maintain setback from existing levees for fill placement
- Maintain Sacramento River flood management criteria at the intakes
 - Intake structure would be positioned to limit increase of maximum water surface elevation
 - Provide continuous flood protection during construction
- Design Southern Forebay/Bethany Discharge Structure to CA Division of Safety of Dams standards

Manage seismic risks to people and property

- Use seismic design criteria specialized to relevant features of the project
- Consider the West Tracy Fault, Bethany Fault, and soil conditions in facility siting
- Enhanced ground improvement for intakes and Southern Forebay for soft/loose ground
- Use tunnels to deliver water from Southern Forebay to existing Banks Pumping Plant approach channel



Minimize activities that produce noise, dust, greenhouse gas emissions (GHG), traffic, and land use disturbances



NOISE

DUST

GHG

TRAFFIC

LAND USE DISTURBANCES

- Minimize the use of impact pile driving at intakes
- Minimize nighttime construction
- ■ Pave access roads, cover stockpiles, and use enclosures
- ■ No concrete batch plants at intakes

- ■ Do not launch TBMs from intakes
- Manufacture precast tunnel liner segments offsite
- ■ ■ Consider access requirements as part of siting
- excavation and fill needs with onsite soil material sources and RTM

- ■ ■ Reduce tunnel shaft pad area and height
- ■ Facilitate RTM reuse
- ■ ■ Eliminate the Intermediate Forebay
- ■ ■ Reduce the number of shafts
- Consider soil conditions in siting to minimize ground improvement

Minimize construction effects to existing infrastructure or other community resources



- Use tunnels to deliver water from Southern Forebay to existing Banks Pumping Plant approach channel
- Consider existing infrastructure as part of facility siting
- Use cutoff walls to minimize effects on groundwater during construction and operations
- Treat and reuse water generated during construction activities
- Maintain irrigation and drainage systems for areas surrounding project sites

Minimize construction traffic and associated effects

- Limit routes used for construction traffic:
 - Limited construction traffic allowed on SR 160 and SR 4
 - Worker shuttle buses on Hood-Franklin Rd
 - Limited Construction traffic in Solano and Yolo County
- Construct park and ride lots to facilitate employee carpools and truck staging areas
- Develop designated access routes and construct new dedicated haul roads
- Develop rail depots to transport bulk materials from select sites



Minimize disturbance to existing land uses, including agricultural land, residences, and wildlife habitat

- Use tunnels to deliver water from Southern Forebay to existing Banks Pumping Plant approach channel
- Use cylindrical tee screens at the intakes
- Consider existing structures, number of ag parcels, and nearby communities as part of facility siting
- Minimize nighttime construction disturbance
- Include plans for post-construction reclamation of agricultural land disturbed during construction
- Maintain irrigation and drainage systems for areas surrounding project sites



Minimize disturbance to sensitive wildlife and protected habitat areas

- Implement strategies to minimize effects on Stone Lakes National Wildlife Refuge, Woodbridge Ecological Reserve, and other protected areas
- Consider greater sandhill cranes in facility siting and power line alignments
- Reroute and realign facilities to avoid wetlands

- Avoid conservation easements in siting of key features
- Limit barge use for project construction
- Use tunnels to deliver water from Southern
 Forebay to existing Banks Pumping Plant approach channel



Minimize effects on Delta water-based recreation and navigation



- Limit barge use for project construction to Intakes only
- No barge landings
- Reconfigure the Lower Roberts Island shaft site access road to be further away from Windmill Cove Marina

Minimize noise during construction and operations

- Use cylindrical tee screens at the intakes
- Include noise reduction methods
 - use noise-limiting enclosures
 - locate fans/ductwork inside buildings rather than on exterior
 - enclose RTM dryers and portions of concrete batch plants
 - use temporary sound barriers and shrouds during construction





Current Project Review

 Intakes: All alignments use same northern facilities; # of intakes varies depending on capacity (6,000 cfs shown)

Main Tunnel Shafts:

- Central: 3 Launch Shafts (1 double + 2 singles), 3 Maintenance Shafts, and 3 **Reception Shafts**
- Eastern: 3 Launch Shafts (1 double + 2 singles), 4 Maintenance Shafts, and 3 **Reception Shafts**
- Bethany: 2 Launch Shafts (2 doubles), 5 Maintenance Shafts, and 3 Reception Shafts

Tunnel Drive Distances:

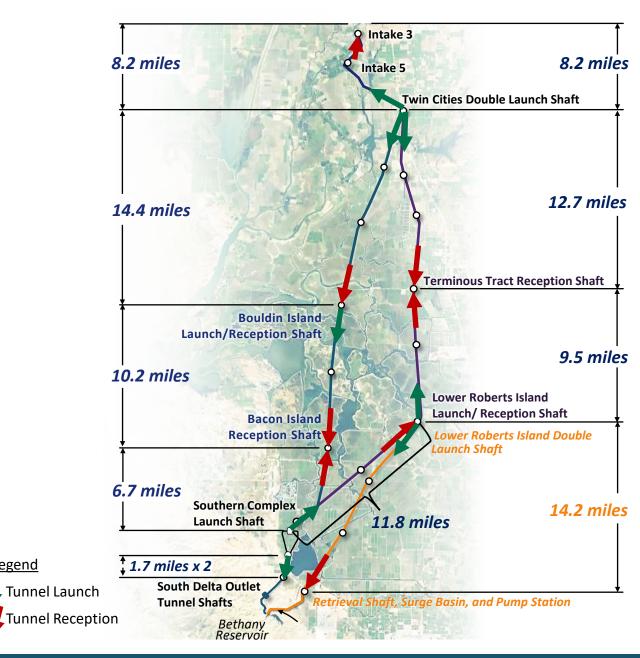
Central: 42.9 miles

Eastern: 45.6 miles

• Bethany: 44.6 miles

South Delta Connections:

- Central/Eastern connects to SWP upstream of Banks PP; requires add'l tunnels and shafts to connect from Southern Forebay
- Bethany requires 3 miles of aqueduct pipelines (# of pipelines varies by capacity) and discharge structure directly into Bethany Reservoir

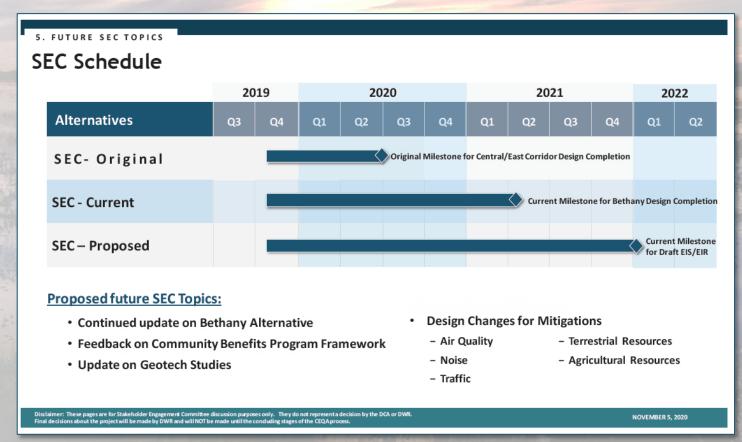


Legend

Key Takeaways from Conceptual Design Process

- DCA completed conceptual designs for Central, Eastern and Bethany alignments in 2021
- Extended SEC through 2021 to provide design updates
- SEC provided forum for valuable input and dialogue about Delta issues/concerns

Image from November 2020 SEC meeting noting intention to extend to end of 2021







DCA Outreach and Engagement Next Steps

- Continue to expand access to current engineering information
 - Community Engineering Briefings
 - Local library materials distribution
 - Expanded access to Virtual Tours
- Support DWR outreach and engagement efforts



WAYS TO STAY INFORMED



Web

- water.ca.gov/deltaconveyance
- dcdca.org



Project Hotline

866.924.9955



DWR Twitter

@CA_DWR

DCA Twitter

@dcdcainfo

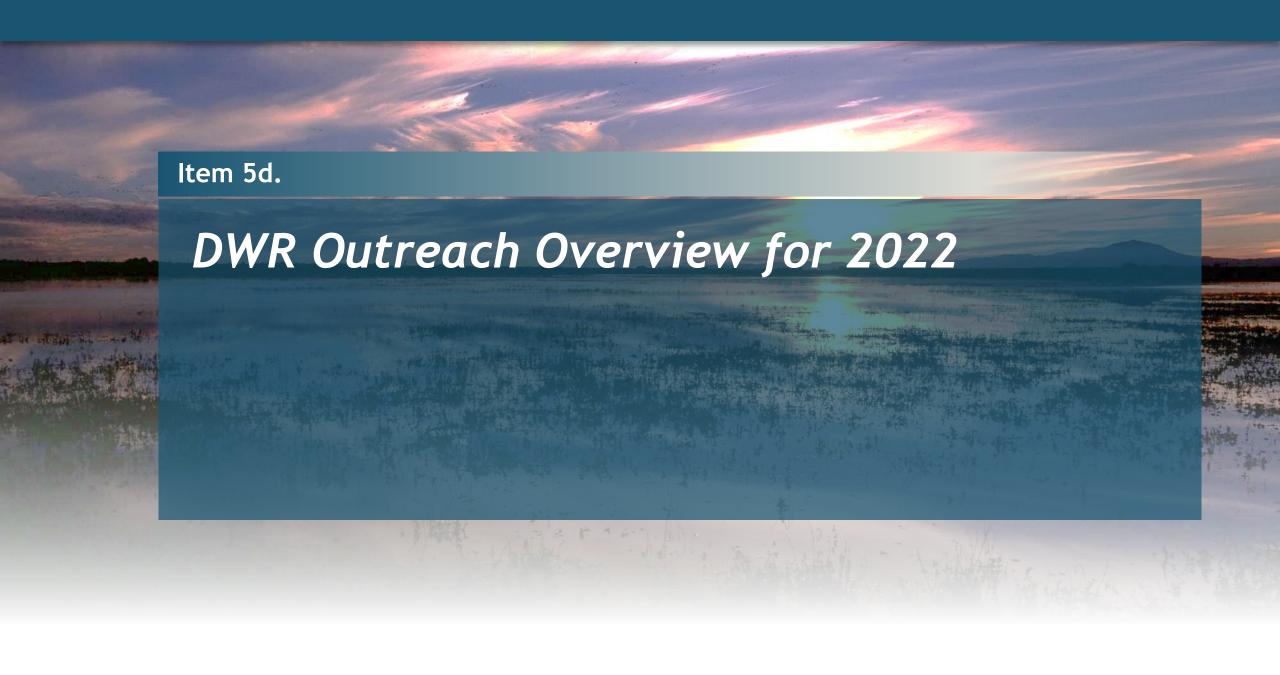


Email

DWR: DeltaConveyance@water.ca.gov

DCA: info@dcdca.org









Delta Conveyance Project 2022 Public Outreach & Community Engagement



Janet Barbieri
Communications Manager



Public outreach in 2022 will focus on the release of the Draft Environmental Impact Report (DEIR)



Public Information

Provide informational resources to help the public review, understand and react to the DEIR.



Public Outreach + Engagement

Proactive outreach to inform and engage, and encourage and assist in participation.



Public Participation + Notification

Provide meaningful opportunities to access public review documents and respond through formal public input processes.

PUBLIC INFORMATION

Timing: Before and after release of the DEIR

Progress & Planning



2021 Progress Report, 2022 outreach engagement plan and blog

How to Participate in DEIR

Public Review Process /

What to Expect

Blogs, short video series, fact sheets, FAQ's

Project Purpose /

Need / Details



Story Map, deep dive videos, stakeholder toolkits, graphic series

Ongoing / General



Videos, website updates, fact sheets, graphics, social media, FAQs, eBlasts



PUBLIC OUTREACH + ENGAGEMENT

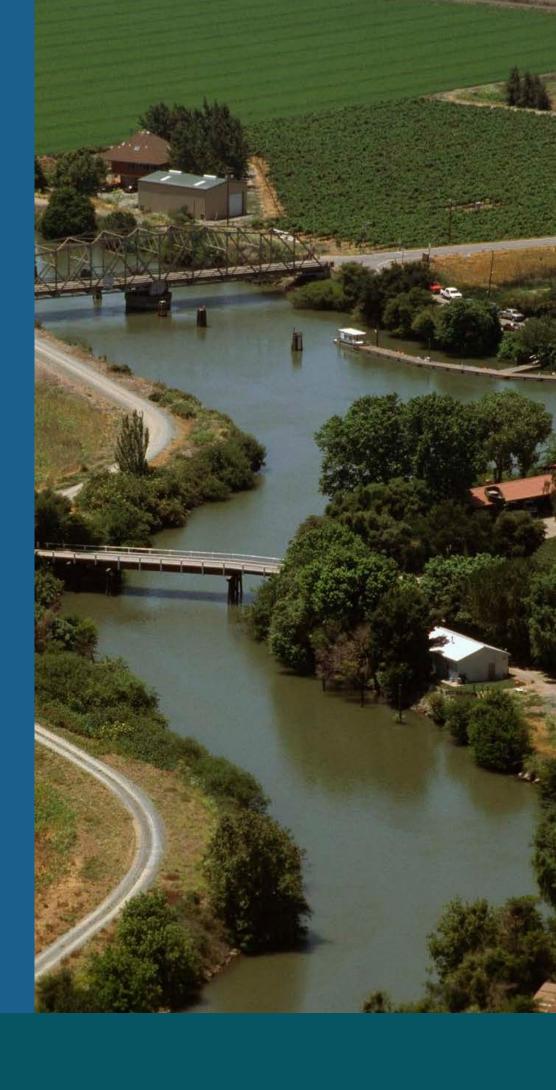
Timing: Before and after release of the DEIR

Audiences

- Tribes (AB 52 & non-AB 52) &
 Tribal Communities
- EJ Communities
- Local Communities
- Statewide Orgs
- SWP Service Area Orgs
- Public Water Agency Boards
- State, Local Electeds and Orgs
- NGOs

Types

- Calls and Emails
- Briefings/Presentations
- Community Events
- Meetings
- Conferences
- Tabling



PUBLIC PARTICIPATION + NOTIFICATION

Timing: After release of the DEIR; public review and comment

Public Meetings



Virtual Public Meetings

Public Comment Period



Comment submittal: online (dedicated email, website comment form), mail, meetings. Questions/additional information & clarification: facilitate two-way interactions with technical experts

Notification



Letters, eBlasts, newspaper ads, flyers, postcards, website, social media, stakeholder outreach

Document Access



Website, companion materials

Distribution/Availability



Flash drives, website, libraries, translations, ADA accessible





ONGOING ACTIVITIES



Timing: Ongoing

Community Benefits Program

- 1. Information sharing, including events and materials
- 2. Information gathering, including public and small group meetings and workshops
- 3. DEIR-specific

Environmental Justice & Disadvantaged Community Outreach

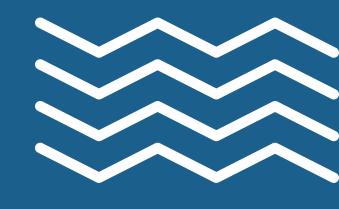
- 1. Continued and proactive engagement with EJ/DAC communities
- 2. DEIR-specific
- 3. Public participation for the DEIR designed to be responsive to EJ needs
- 4. Incorporate outreach best practices and lessons learned

Tribal Consultation & Outreach

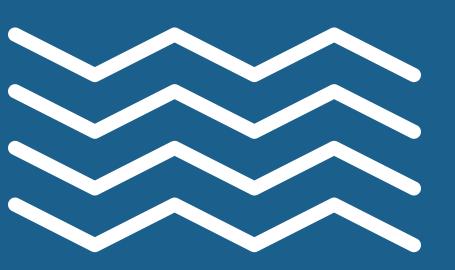
- 1. Formal consultation
- 2. DEIR-specific
- 3. Informal outreach and discussions
- 4. Tribal Engagement Committee
- 5. Annual Tribal Informational Meeting
- 6. Assist with federal process
 Tribal outreach, as
 appropriate

Agency Coordination

- Ongoing collaboration
 with various federal
 and state regulatory
 agencies
- 2. Engage with agencies for processes already in motion and initiate contact when appropriate for upcoming actions



Questions?













Item 6.

Non-Agendized SEC Questions or Comments

Item 7.

Public Comment on Non-Agendized Items

