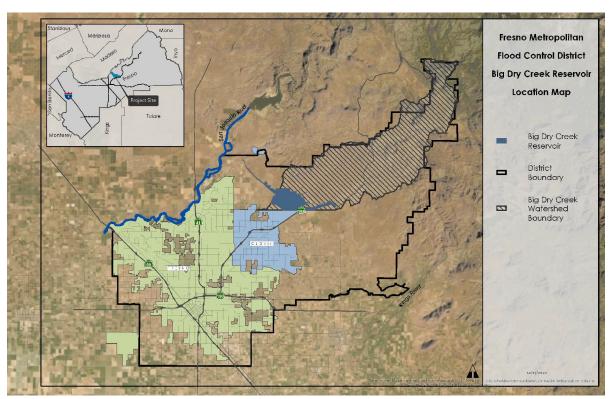


REDBANK AND FANCHER CREEK, **CALIFORNIA- FEASIBILITY STUDY**







Sacramento District 23 April 2024





TOPICS FOR DISCUSSION

- What is a Feasibility Study?
- Who is working on the Feasibility Study?
- When would the Study be completed?
- Where would actions be taken?
- Known Environmental Justice Issues
- Upcoming opportunities for involvement
- How to stay in the loop
- Discussion- What is important to you? What would you like the study team to know?







WHAT IS A FEASIBILITY STUDY?

A feasibility study is a planning process that:

- Identifies water resource <u>problems</u> and <u>opportunities</u>
- Develops potential solutions to those problems while maximizing opportunities
- Compares solutions to each other
- Recommends the solution that makes the most sense





THE STUDY TEAM

Name	Agency	Study Role
Brent Sunamoto	FMFCD	Assistant GM/District Engineer
Kassy Chauhan	FID	Special Project Manager
Dylan VanDyne	USACE	Project Manager
Ashley Labass	USACE	Support Project Manager
Jessica McCaffrey	USACE	Lead Planner
Lindsay Floyd	USACE	Support Planner
Jesse Schlunegger	USACE	Lead Hydraulics and Hydrology
Shyamal Chowdhury	USACE	Engineering Lead
Steven Mclemore	USACE	Environmental Support
Lorena Guerrero	USACE	Environmental Lead







U.S. Army Corps of Engineers Sacramento District

WHAT IS THE FOCUS OF THIS **FEASIBILITY STUDY?**



A study to determine cost effective measures of increasing water supply and conservation

- Capturing more storm water
- Drought resiliency
- Groundwater recharge
- Life safety- residual flood risk
- Nature-based water storage solutions
- Resilience for existing infrastructure
- Storing more water
- Benefits to the environment
- Benefits to human health
- Benefits for recreation, scenery, and greenspace



WHEN WILL THE STUDY BE COMPLETED?



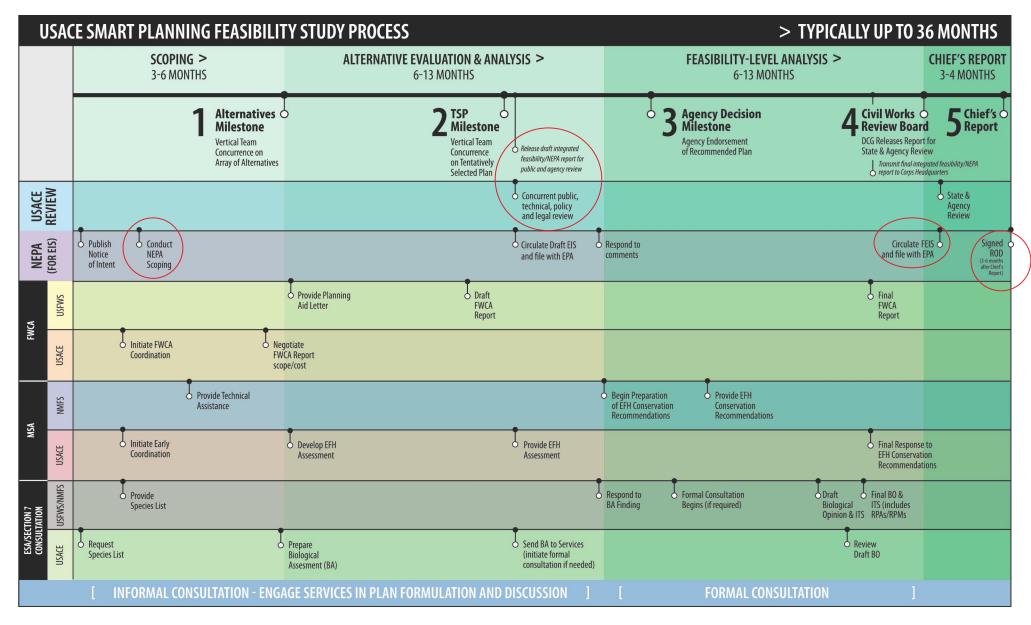
Milestone	Schedule
Study Began	February 7, 2024
Decision on Alternatives	August 30, 2024
Release National Environmental Policy Act (NEPA) for Public Review	30 days for public to review and make comments
Agency makes decision	Late 2026
Study sent to Congress for Approval and Authorization	Early 2027
Project Construction	? Dependent on congressional funding





THE FEASIBILITY STUDY PROCESS AND NEPA/CEQA





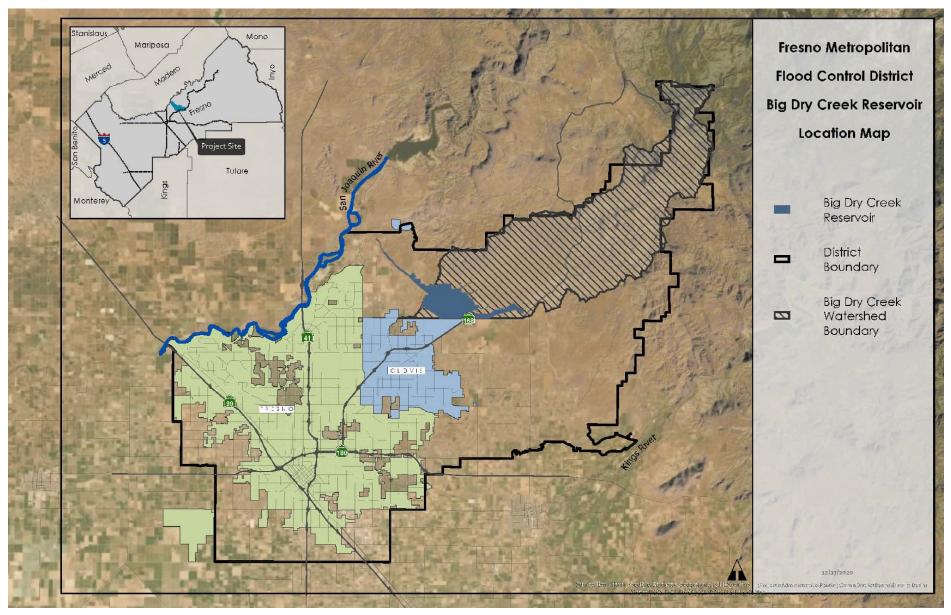
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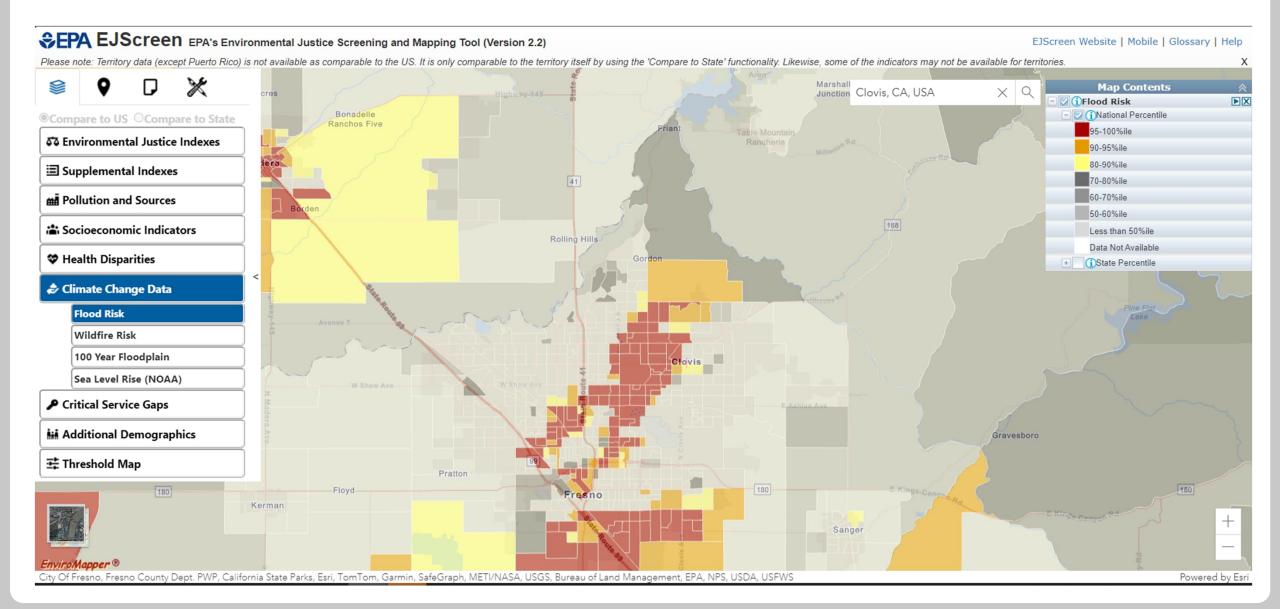
WHERE WOULD ACTION BE TAKEN?



8











SEPA EJScreen EPA's Environmental Justice Screening and Mapping Tool (Version 2.2) EJScreen Website | Mobile | Glossary | Help Please note: Territory data (except Puerto Rico) is not available as comparable to the US. It is only comparable to the territory itself by using the 'Compare to State' functionality. Likewise, some of the indicators may not be available for territories. X X Marshal Map Contents XQ Clovis, CA, USA Junction - 🔽 🛈 Wildfire Risk **N**X - Vintional Percentile Compare to US Compare to State Bonadelle Ranchos Five 95-100%ile 55 Environmental Justice Indexes 90-95%ile lera 80-90%ile Supplemental Indexes 70-80%ile **m** Pollution and Sources 60-70%ile Borden 50-60%ile Socioeconomic Indicators Less than 50%ile **Rolling Hills** Data Not Available Health Disparities State Percentile 🕏 Climate Change Data Flood Risk Wildfire Risk 100 Year Floodplain Clovis Sea Level Rise (NOAA) Critical Service Gaps **iii** Additional Demographics Gravesboro 荘 Threshold Map Pratte 180 180 180 Fresno EnviroMapper® City Of Fresno, Fresno County Dept. PWP, California State Parks, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USFWS Powered by Esri

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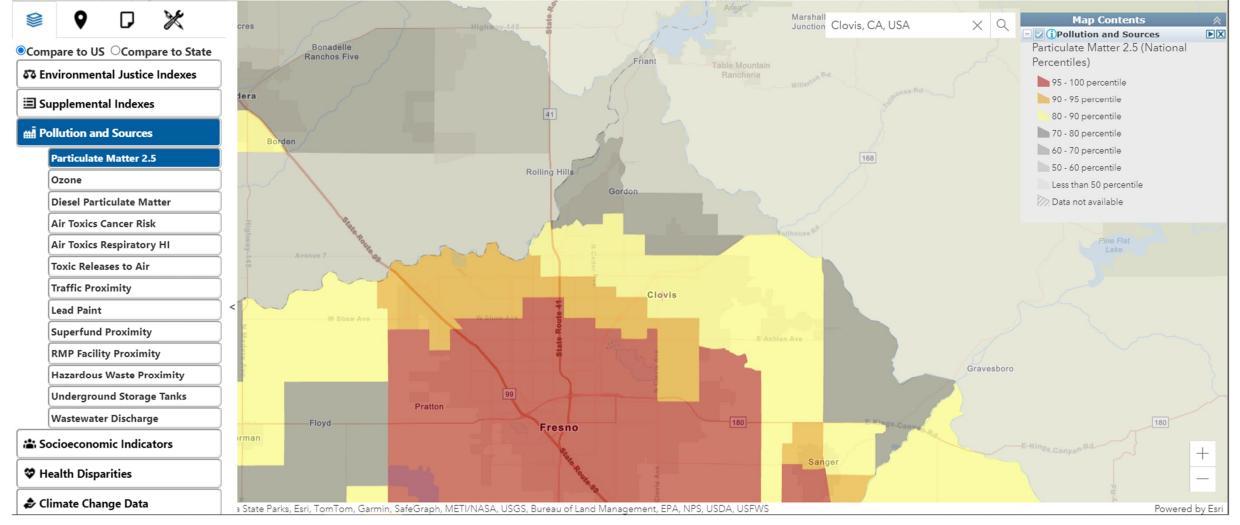
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SEPA EJScreen EPA's Environmental Justice Screening and Mapping Tool (Version 2.2)

EJScreen Website | Mobile | Glossary | Help

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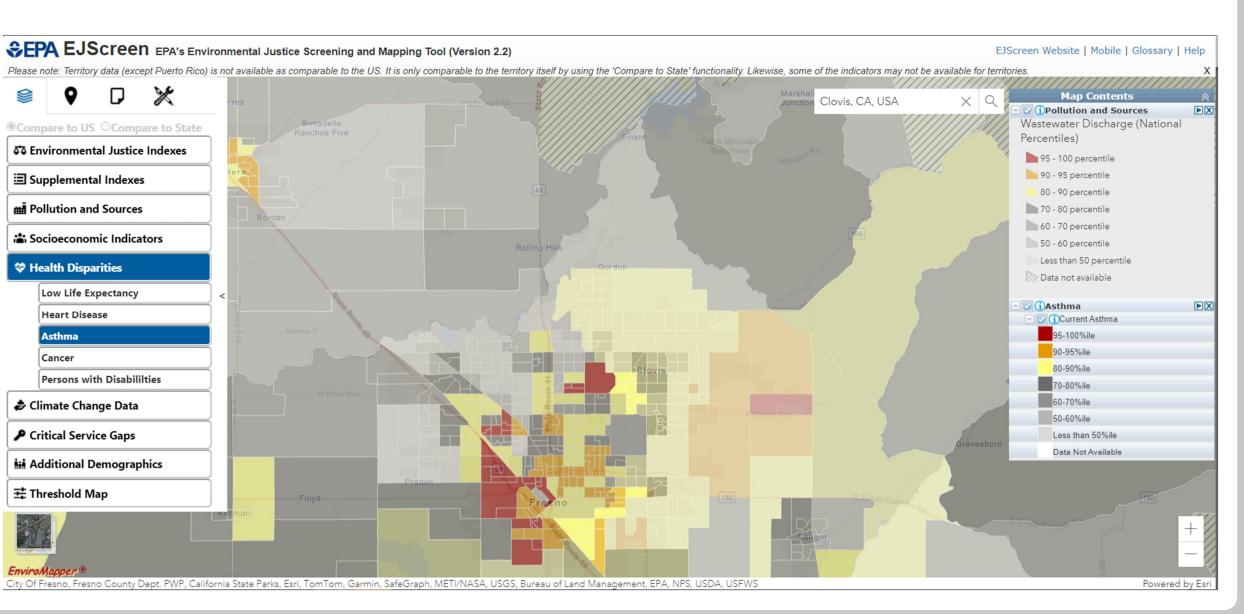


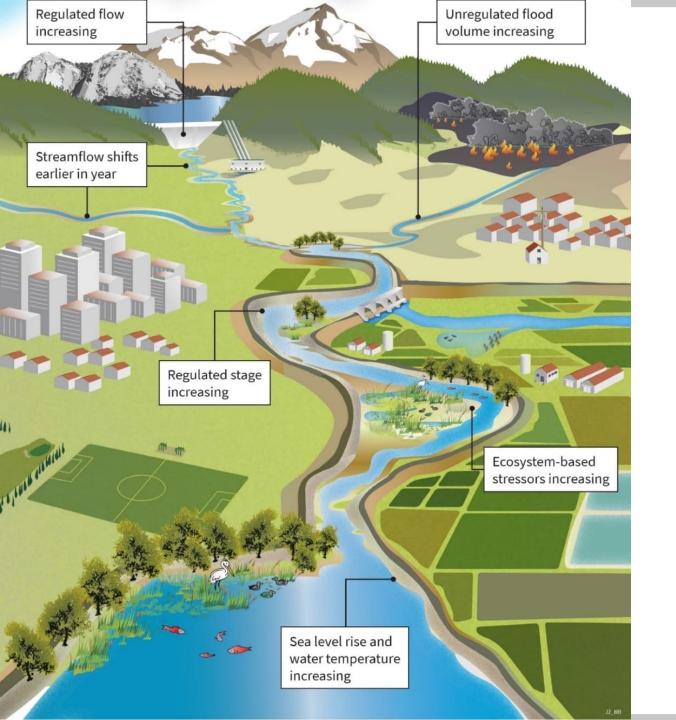


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SEPA EJScreen EPA's Environmental Justice Screening and Mapping Tool (Version 2.2) EJScreen Website | Mobile | Glossary | Help Please note: Territory data (except Puerto Rico) is not available as comparable to the US. It is only comparable to the territory itself by using the 'Compare to State' functionality. Likewise, some of the indicators may not be available for territories. X × Marsha O XQ Map Contents Clovis, CA, USA res Pollution and Sources **F**X Ozone (National Percentiles) Bonadelle ●Compare to US ○Compare to State **Ranchos Five** 95 - 100 percentile 55 Environmental Justice Indexes 90 - 95 percentile **T**a Supplemental Indexes 80 - 90 percentile 70 - 80 percentile **HIP Pollution and Sources** 60 - 70 percentile Borden 50 - 60 percentile Particulate Matter 2.5 168 Less than 50 percentile Rolling Hi Ozone Data not available Gordon **Diesel Particulate Matter** Air Toxics Cancer Risk Air Toxics Respiratory HI Toxic Releases to Air Traffic Proximity Clovis Lead Paint Superfund Proximity **RMP Facility Proximity** ravesboro Hazardous Waste Proximity Underground Storage Tanks Pratton Wastewater Discharge 180 Floyd Fresno man Socioeconomic Indicators Sanger Health Disparities Climate Change Data 3 State Parks, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USFWS Powered by Esri







CLIMATE CHANGE IMPACTS





CLIMATE CHANGE IMPACTS



Increase in frequency and severity of extreme weather events

- More frequent and severe heatwaves
- More frequent and severe droughts
- More frequent and severe wildfires
- More precipitation extremes (flashier system)
- Losses to habitat and ecosystems

Follow on economic effects

- Difficulty in obtaining homeowners/hazard insurance
- Uncertainty of water supply for M&I and Agricultural uses
- Crop losses

Follow on impacts to public health

- Hotter temperatures result in more smog
- Higher temperatures result in more extreme heat events

Sources: https://oag.ca.gov/environment/impact

https://climateresilience.ca.gov/overview/impacts.html#:~:text=California%20is%20already%20experiencing%20the,have%20increased%20as%20temperatures%20warm



EXISTING CONDITIONS – BIG DRY CREEK RESERVOIR



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EXISTING CONDITIONS – BASINS





EXISTING CONDITIONS – FANCHER AND REDBANK CREEK





UPCOMING OPPORTUNITIES FOR INVOLVEMENT



 Additional official NEPA scoping meeting may be held after alternatives are developed

We will largely request the same type of information, but will have more targeted measures and locations

- Public Meeting to Support NEPA/CEQA process

Usually held just before or during the public review period

Review Study Materials and NEPA/CEQA documents during public review
All documentation will be released for review during the public review period



HOW TO STAY IN THE LOOP



Sign up for study updates (Check yes on sign-in sheet or let us know in the chat)

Send us an email: <u>RedbankandFancher@usace.army.mil</u>

Visit our websites:

https://www.spk.usace.army.mil/Missions/Civil-Works/Redbank-and-Fancher-Creek/

www.Fresnostreamgroup.com





What is important to you?

What would you like the study team to know?

Do you have any information or resources that you would like to share for our consideration during the study?