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Key points

- Levees and seawalls won't prevent rising groundwater
- Rising groundwater will probably have a bigger impact on Richmond than rising saltwater (more areas affected, bigger health and structural impacts)
- Adaptation means removing toxic soils, and finding strategies for living with higher water

Rising groundwater will cause...

- Mobilization of **toxic soil pollution** (likely to be an early impact),
- Increased **liquefaction risk** in an earthquake,
- Problems for **storm + sanitary sewers** and road surfaces,
- Foundations to be displaced (heaving),
- **Corrosion** of underground pipes and electrical conduits,
- **Flooding** at the surface when groundwater rises higher than the land.

Community organizations:

<https://richmondshorelinealliance.org/>

The Richmond Shoreline Alliance is an alliance of Richmond area residents, organizations, and allies dedicated to environmental justice, environmental protection, and an accessible and healthy Richmond shoreline now and for future generations.

<http://www.sunflower-alliance.org/498-2/>

The Sunflower Alliance is committed to environmental justice and the health and safety of all Bay Area communities threatened by toxic pollution and climate change. We are fighting against the poisoning of our communities and the destruction of our planet, and for an equitable and sustainable economy fueled by renewable energy sources—wind, water and solar.

<https://www.cbecal.org/>

The mission of CBE is to build people's power in California's communities of color and low income communities to achieve environmental health and justice by **preventing and reducing pollution and building green, healthy and sustainable communities and environments.**

CBE provides residents in heavily polluted urban communities in California with **organizing skills, leadership training and legal, scientific and technical assistance**, so that they can successfully confront threats to their health and well-being.

<https://www.richmondprogressivealliance.net>

The RPA has this explicit goal: to take political decision-making back from corporations and put power in the hands of the people. The RPA mobilizes people in support of progressive policies and candidates, often in alliance with other local groups.

<https://ced.berkeley.edu/ced/faculty-staff/kristina-hill>

Prof. Hill currently focuses her research on adaptation and coastal design in the San Francisco Bay Area, but engages in comparative studies in the US Mid-Atlantic, Europe, and Hawaii. Prof. Hill lectures internationally on urban design and ecology. Before coming to Berkeley, she served as chair of the Landscape Architecture Department at the University of Virginia. Her book, *Ecology and Design: Frameworks for Learning*, was published by Island Press in 2002, and her current book project proposes adapting urban waterfronts to climate change while incorporating productive ecosystems.

<https://www.cemtf.org/>

CEMTF has worked to build a coalition with the civic will and power to move the Bay Area together to a just, regenerative economy that can not only meet, but exceed the carbon mitigation standards set by the IPCC.

<https://apen4ej.org/>

Asian Pacific Environmental Network (APEN) grew from a seed of an idea at the [First National People of Color Environmental Justice Leadership Summit](#) in 1991. For decades, working class communities of color around the country had been organizing locally to stop big corporations from putting toxic landfills and incinerators in their neighborhood. This was the first time they gathered nationally and internationally, joined by people from Puerto Rico, Vietnam, and other parts of the world grappling with the impacts of U.S. chemical warfare on their land and bodies.

Richmond quickly became a hub for Laotian refugee families. They found each other and helped one another navigate life here from where to buy food to how to get their kids to school. As more Laotians found out about this community, they began moving to Richmond to be near friends and relatives. Many didn't know that there were over 350 toxic facilities in Richmond, including the state's biggest pollution source—the Richmond Chevron refinery—and residents had high rates of asthma and cancer.

<https://www.ourpowerrichmond.org/>

The overarching focus of OPR is a just transition. To have an idea of the work they do, I have included one of their campaigns.

Our Power, Our Vote is a campaign for frontline communities in the greater Richmond who are being displaced by rising costs of living. This is for residents who want to re-imagine what safety means in our community. Safety that includes a clean healthy environment where we give as much as we take and our actions work towards building and strengthening community. This is a campaign where we reach out one by one and meaningfully engage our community in being active change agents in our own community.