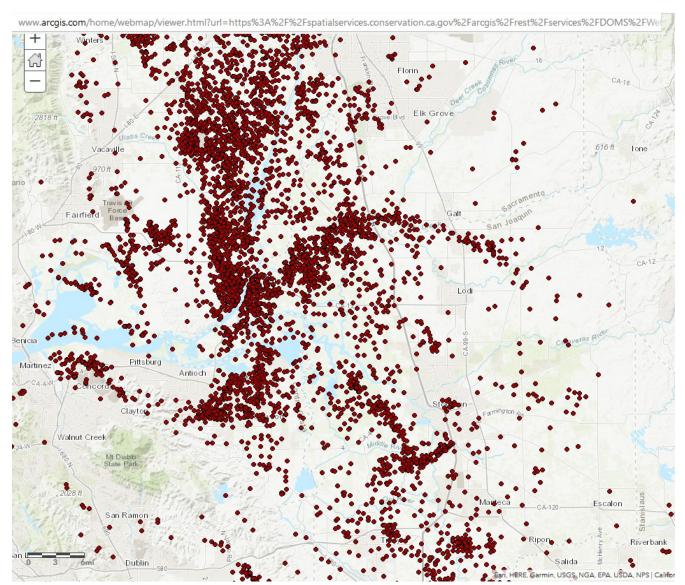
Water rights and Farmers intakes:

http://waterrightsmaps.waterboards.ca.gov/viewer/index.html?viewer=eWRIMS.eWRIMS_gvh#

Screen prints from California Department of Conservation and a AGIS resource showing estimated locations of natural gas wells in the Delta region. California WaterFix EIR/EIS and related documents failed to assess impact to the area infrastructure from hitting one or several of these gas wells during tunnel boring. Hitting one of these gas wells could cause an explosion like the one on Andrus Island several years ago, which has the potential to cause local levees to fail and could cause risk to farms, local residents in the immediate area and boaters on the waterways nearby at the time of impact.



Map showing gas wells in the Delta area of California

Since the State of California did not require fracturing companies to report the exact locations of the gas wells until just the last few years, it is not actually known how many and where those gas wells are located in the Delta. An extensive database of gas and oil wells was found online, and will be submitted as evidence to show the estimated number of wells within the counties of the Delta.

In fact, drilling of natural gas wells has increased substantially since discovery of the new method of fracturing or directional drilling. Below is an excerpt from the Department of Conservation:

vorites	Tools	Help			-	7	
				\$	🐌 🍊	stream energy, inc	چ 🧕
			SPI	KE IN NATURAL C	AS DRILLIN	G IN CALIFORNIA	
						alifornia is on fast track.	
			At curre	ent pace, 207 perm	Its will be iss	ued most since 1984	
				natural gas wells ir ingle year in the 19		alifornia are being received a be surpassed.	t a pace not seen sind
Res Sutt	ources ter, Yold	' office in o, San Jo ompared	Sacramento had aquin, Sacramen	issued 178 permits to and Tehama cou	s to drill new unties. At the	w that its Division of Oil, Gas wells in Butte, Colusa, Contra current rate, 267 notices will cade ranged from 187 permit	a Costa, Glenn, Solan be filed by the end of
In March, 2001 Governor Davis directed Mary D. Nichols, Secretary for Resources, to form and chain Natural Gas Working Group to closely monitor natural gas supply, demand and price. The Group als projects throughout the State.							
"The	e latest		n in-state natural			a's pressing energy needs," is making progress to increa	
the succ	Denver cessful.	ton Cree In other	k field in Solano C	ounty,field bounda e Willows-Beehive	ries are bein	ntain about 900 active wells. g extended when the new we Glenn County and the Rio \	ell drilling proves
per	ast January, the fair market price of gas, according to the Natural Gas Intelligence Weekly Gas Price Index, was \$14.3 per thousand cubic feet, and soared into the \$50-\$60 range in the spot market. Currently, gas sells for about \$3.40 per housand cubic feet, and the spot-market price has at times dipped below \$3. The price could rise as winter approache						
new abo	drilling ut a bill	is unlike ion cubic	ly to put much of	a dent in the amounking it 10th in the	nt of natural	ar, peaking at 18 the week o gas the state imports, howev uses more than six times tha	er. California produce
Pro	duction	has rise		d by Stream Energy		d the early 1990s, falling off Todhunters Lake gas field in	

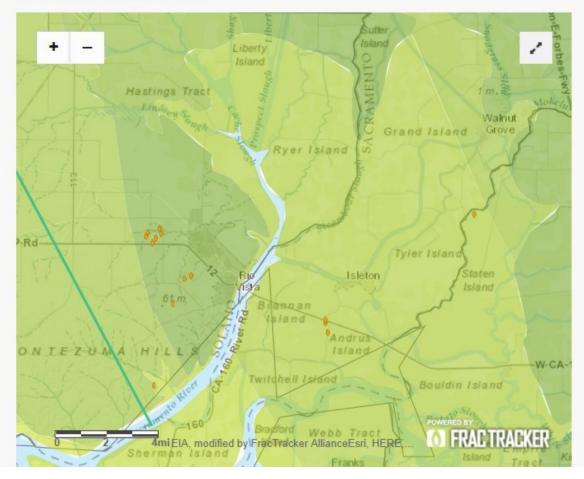
(See next page)

In addition, the exact location of the wastewater wells full of toxins that have been allowed to be placed in and around the Delta region were not considered by California WaterFix proponents. Damage from tunnel boring to the fracking wastewater well located on Staten Island, for example, would release toxins into the Mokelumne River and the drinking water aquifer and put thousands or millions of persons at risk of drinking those pollutants found in the fracking wastewater well. Map is from Food & Water Watch organization website http://FracTracker.org

() FRACTRACKER

http://www.fractracker.org/2014/03/ca_injection_earthquakes/ Oil & Gas Topics Projects

such as areas of San Francisco built on landfills, will typically shake more than areas comprised of bedrock at the surface. The type of shaking, whether it is low frequency or high frequency will also present varying hazards for different types of structures. Low frequency shaking is more hazardous to larger buildings and infrastructure, whereas high frequency events can be more damaging to smaller structure such as single family houses. Various assessments have been conducted throughout the state, the majority by the California Geological Survey and the United States Geological Survey.



www.fractracker.org/2014/03/ca_injection_earthquakes/

Oil & Gas Topics Projects areas of San Francisco built of nanomis, will typically shake more than areas comprised of bedrock at the surface. The type of shaking, whether it is low frequency or high frequency will also present varying hazards for different types of structures. Low frequency shaking is more hazardous to larger buildings and infrastructure, whereas high frequency events can be more damaging to smaller structure such as single family houses. Various assessments have been conducted throughout the state, the majority by the California Geological Survey and the United States Geological Survey.



Figure 2. California Earthquake Shaking Amplification and Class II Injection Wells