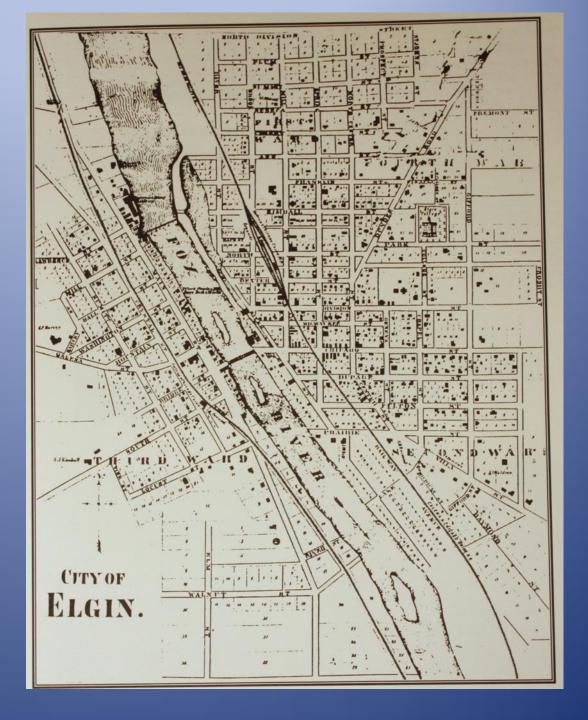
The History & Future of Elgin's Water Supply



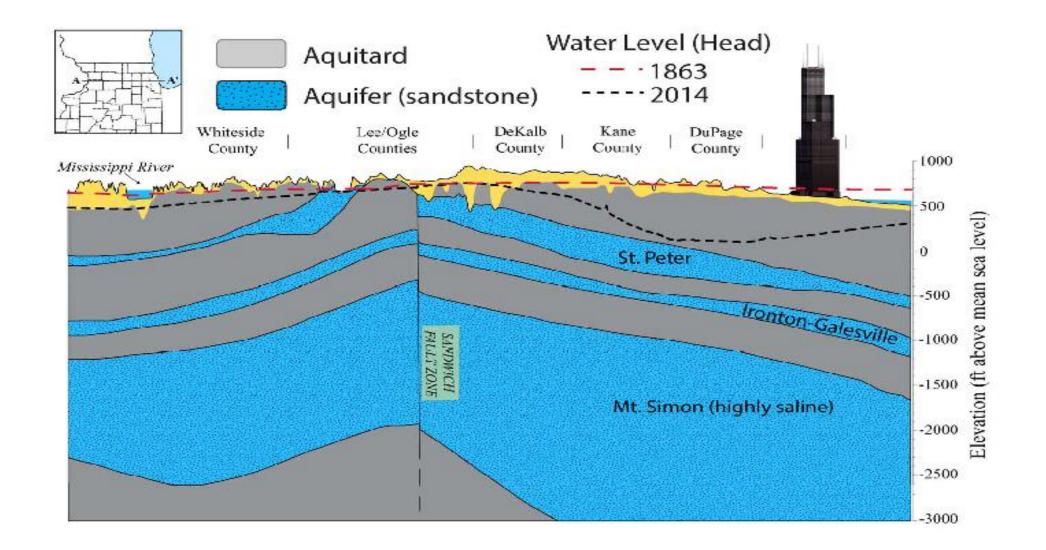
Map of ELGIN, IL In 1860 (From "OLD ELGIN" By E. C. Alft p31)



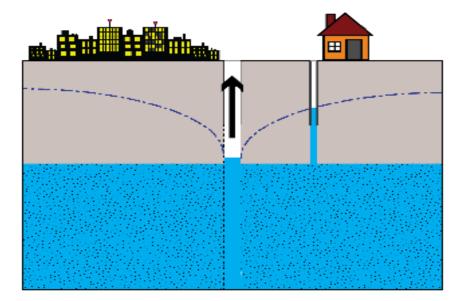


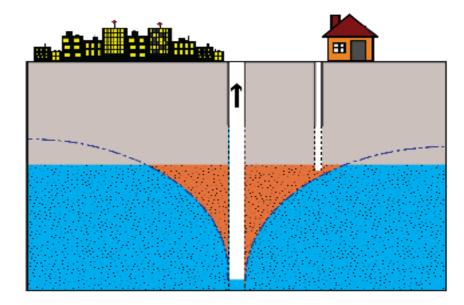


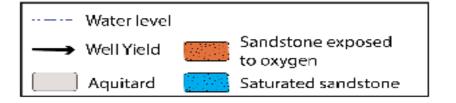
Deep Wells supplied water to Elgin Residents until we converted to the use of the FOX RIVER



Desaturation of sandstone aquifers



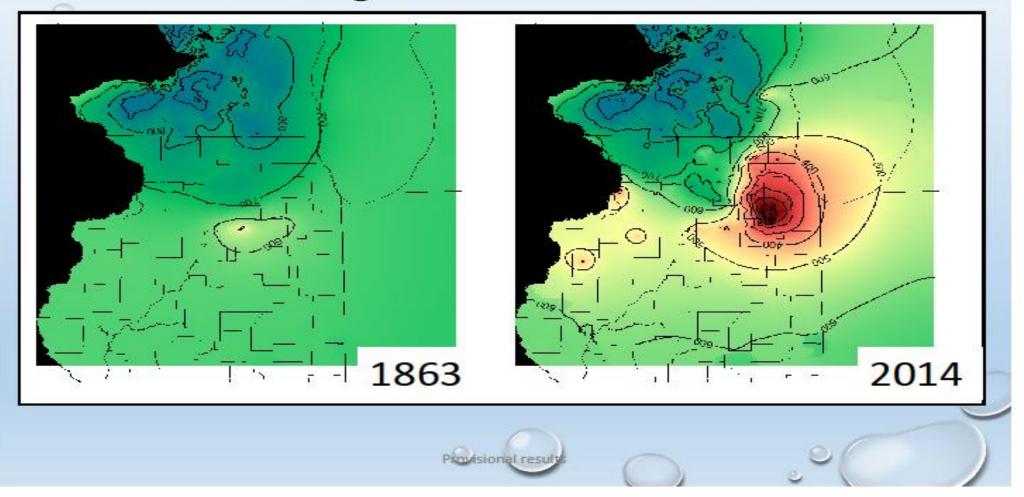




Concerns Related to Desaturation:

- 1. Shallow sandstone wells go dry
- Public supply wells pump less water from the sandstone and potentially go dry
- Sandstone is exposed to oxygen, which can cause a variety of water quality issues

Regional sandstone heads

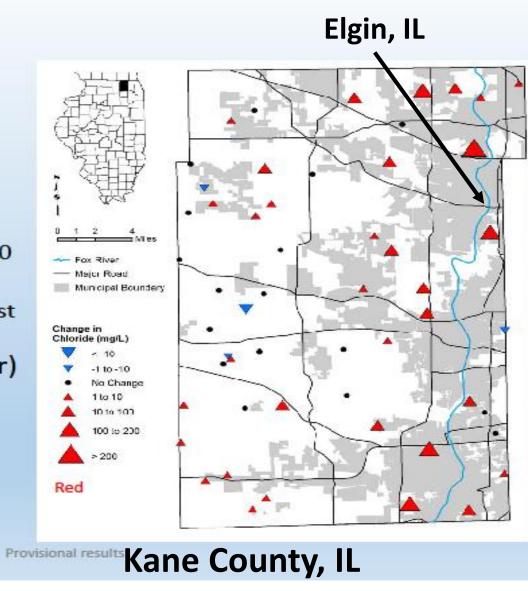




Elgin Draws Its Water for the FOX RIVER

Change in chloride: 2003 - 2015

- 5 wells increased more than 100 mg/L
- Average chloride increase in East wells was 46.3 mg/L
 - (about 4 mg/L per year)





Current underground water service line (L) & its possible replacement (R)

						e Water tems				
<u>Year</u>	<u>Municipality</u>	<u>_N</u>	'ater Rate		Stendardize to COL	<u>d</u>	mo	nthly bill	population (2015)	<u>notes</u>
	Elgin	\$	3.38	100 cf	\$3.38	monthly	\$	35.58	108,188	
2018	Decatur	\$	4.91	100 cf	\$4.91	monthly	\$	43.25	75,407	
2018	Springfield	\$	1.64	100 cf	\$1.64	monthly	\$	22.72	116,250	\$1.64 for first 5 ccf, \$2.64 for next 5 ccf
2018	Moline	\$	4.89	1000 gal	\$3.66	quarterly	\$	38.43	43,259	
2018	Bloomington	\$	4.01	100 cf	\$4.01	monthly	\$	37.08	77,733	
2018	Aurora	\$	5.15	100 cf	\$5.15	bi-monthly	\$	50.73	199,932	
2018	Rock Island	\$	3.37	100 cf	\$3.06	monthly	\$	53.70	39,018	\$3.06 for first 5 ccf, 2.80 for next 295 ccf
2018	IL American - Peoria	\$	5.85	1000 gal	\$4.38	monthly	\$	55.01	115,007	private
2018	Aqua Illinois - Kankakee	\$	6.90	1000 gal	\$5.16	monthly	\$	57.49	76,299	private

How Can We Ensure We Will Have Enough Drinking Water in the Future?