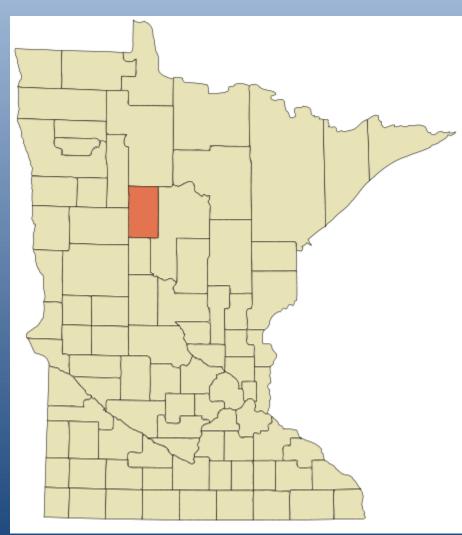
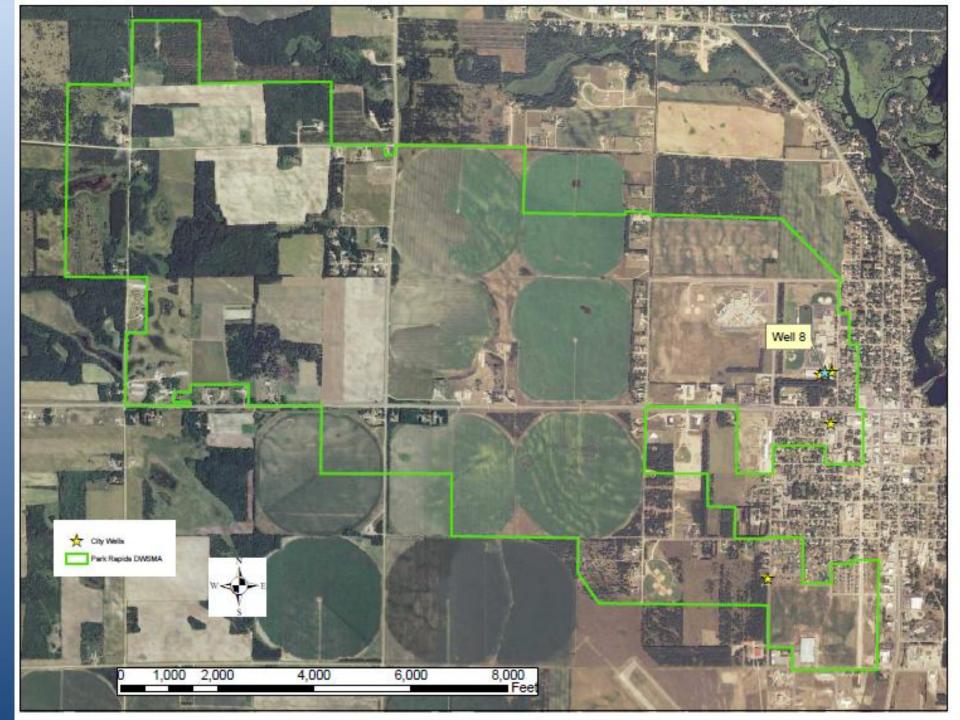
## The Search for Clean Groundwater and the Economic Costs Associated

Scott Burlingame, City of Park Raids Mike Strodtman, MN Rural Water Association

## Where is Park Rapids?

- Located in north central MN
- Year round population 3,700
- On the edge of sandy soils used for ag to the west & mixed hardwood and pine forest to the east and north
- Potato country



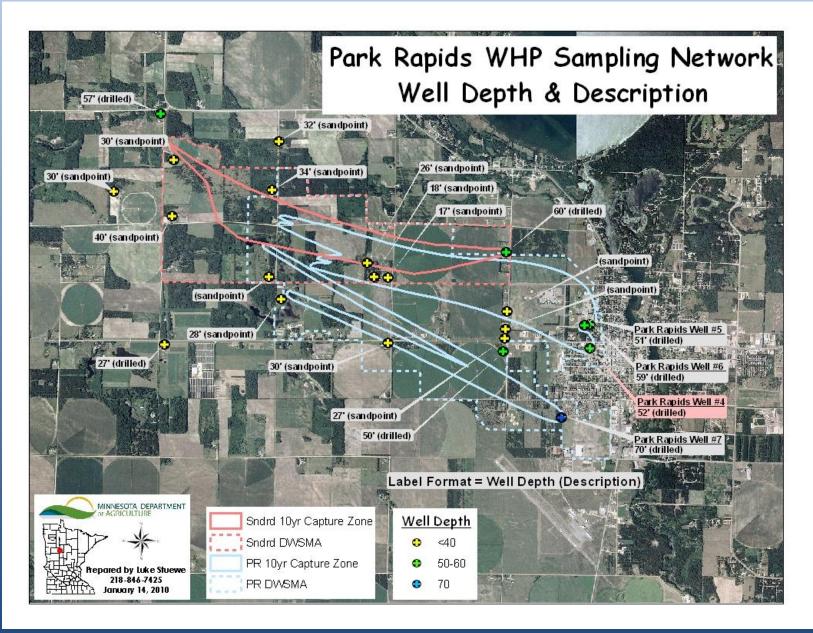


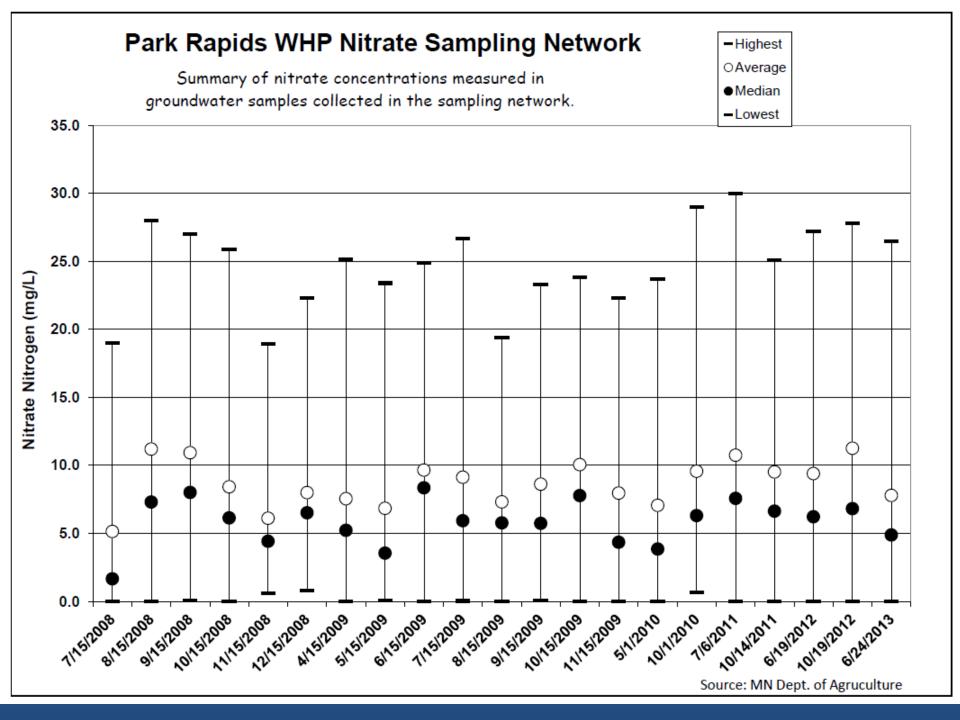
# Wellhead Protection (WHP) Efforts

- City's WHP Plan approved in November 2004
- City has been working closely with the Producers, MN Dept. of Ag, MN Dept. of Health and MRWA
- Numerous meetings with various groups.

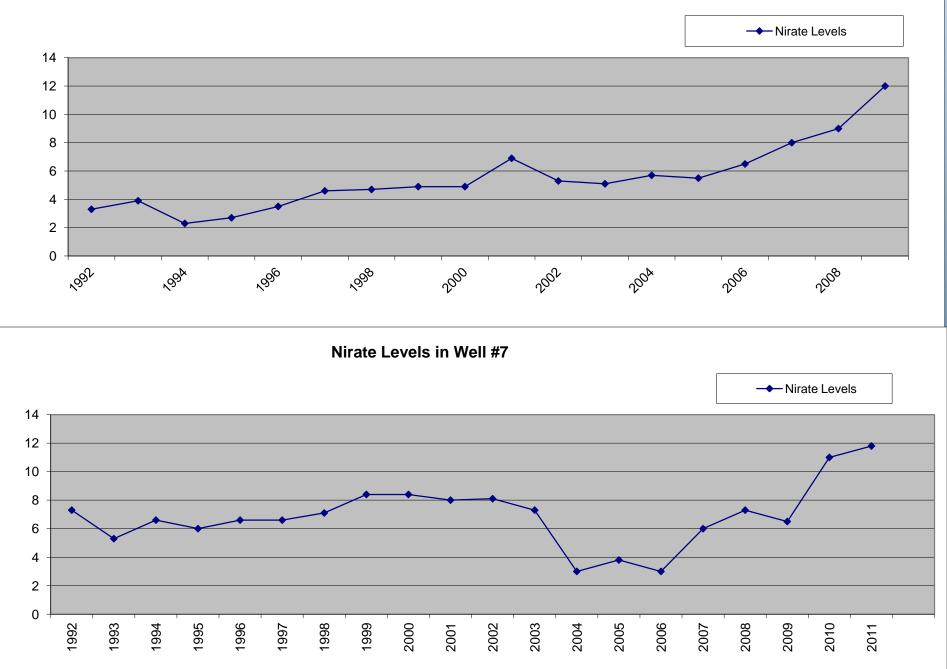


## Park Rapids- Nitrates

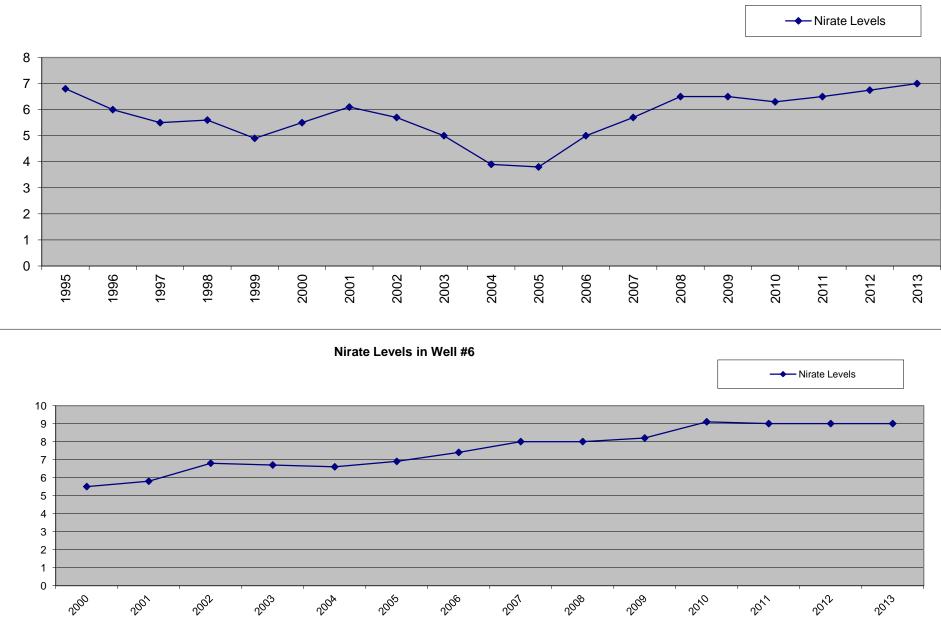




#### Nirate Levels in Well #4

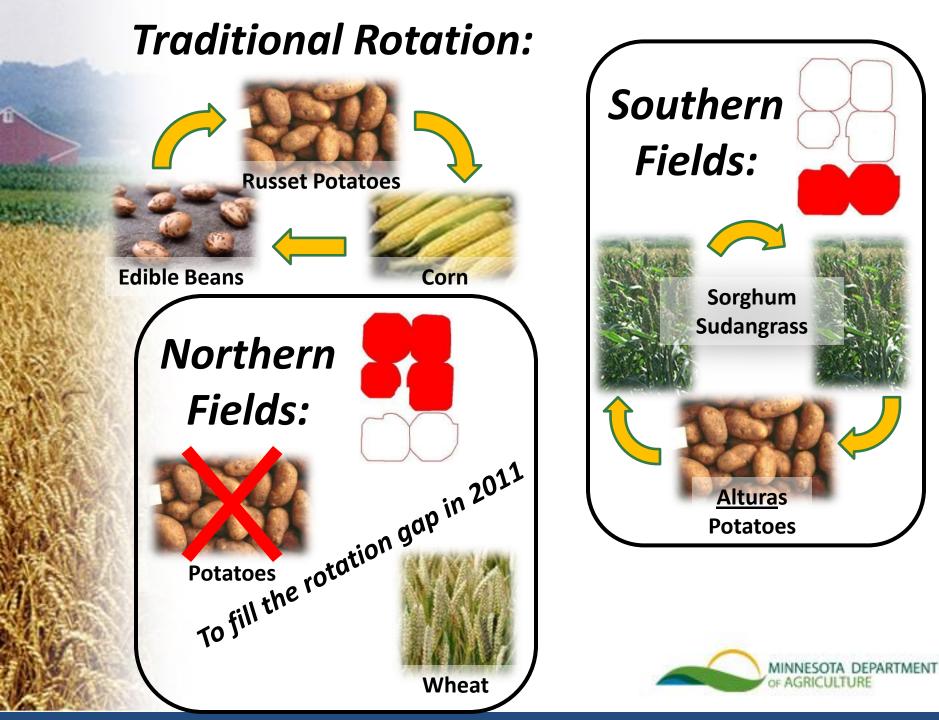




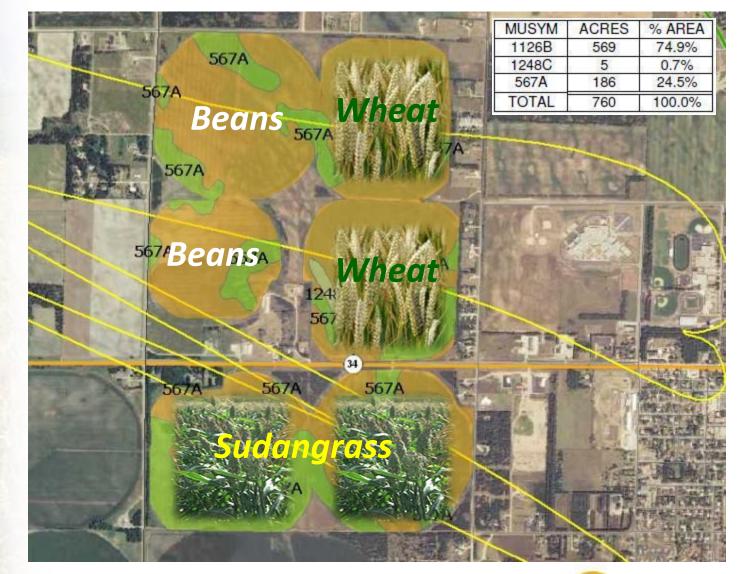


## Loss of Production Wells

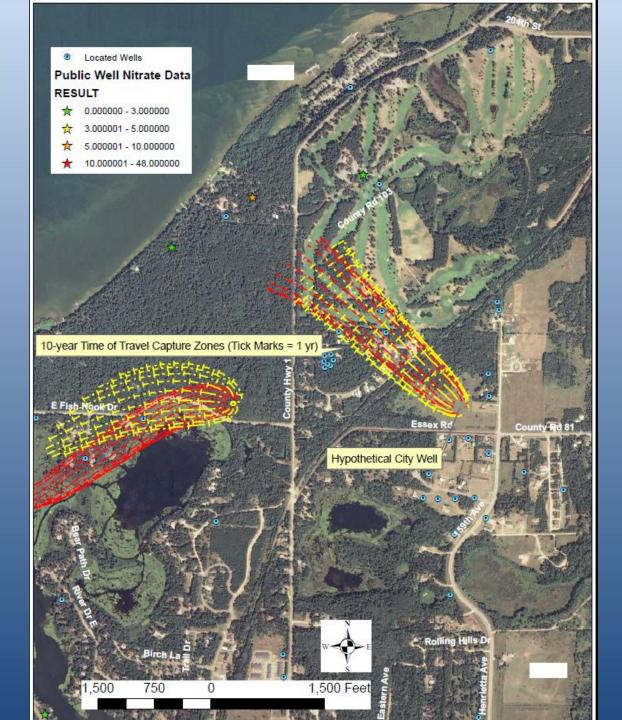
- 2008 Well #4 required to be taken offline
- 2010 Well #7 required to be taken offline
- City has concerns of their ability to provide needed volume of water during peak usage.
- Rising nitrate levels in remaining two wells
- City issues water ban
- Began exploring options for new source of water
- Additional meetings with producers

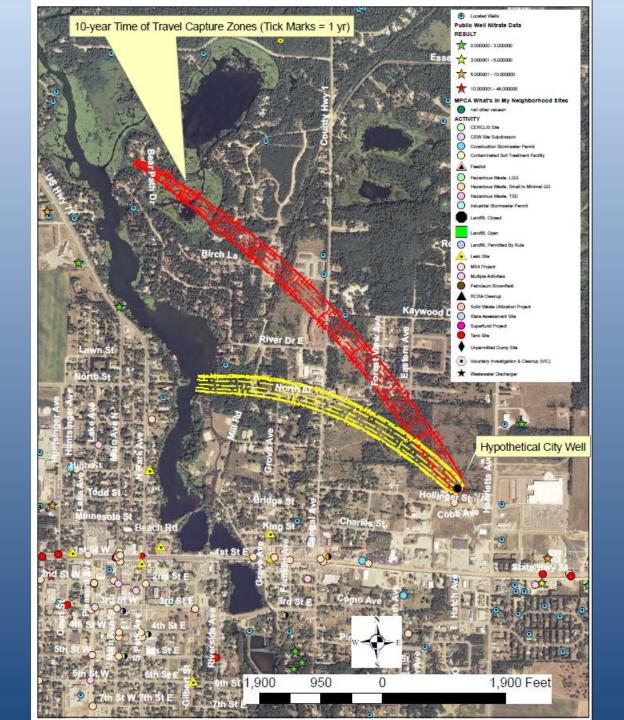


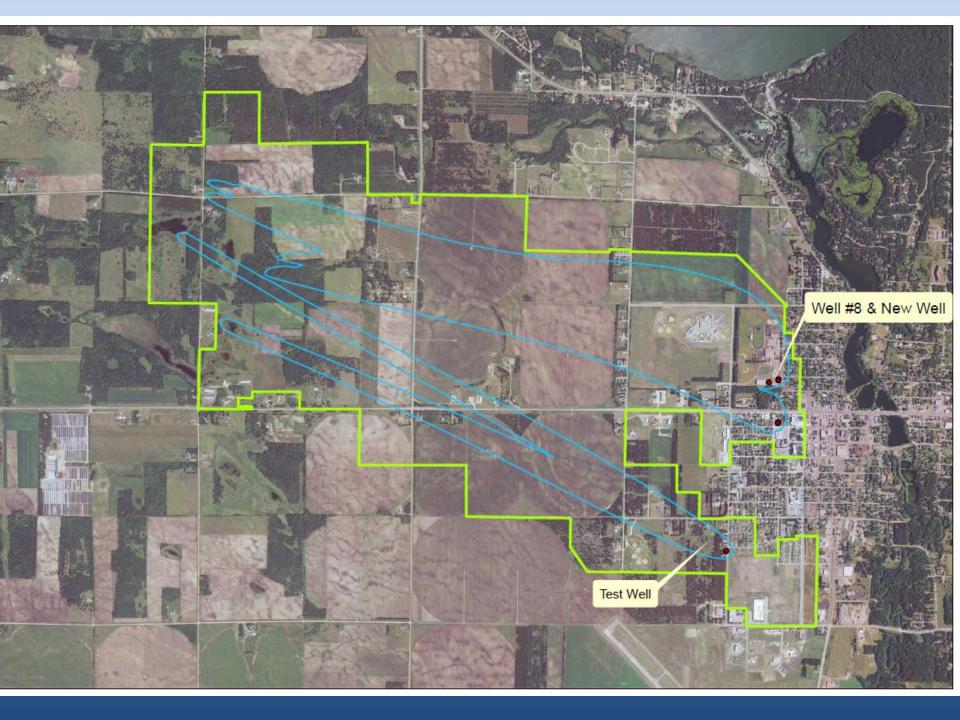
### ....Proposed planting in 2011













## What to do?



### Cost for project \$2,600,000

"Sunrise On Fish Hook River" by Nels Peterson