

# WISCONSIN TOWNS ASSOCIATION MEETING

FRAC SAND MINING AND  
PROCESSING

WHY? WHERE?

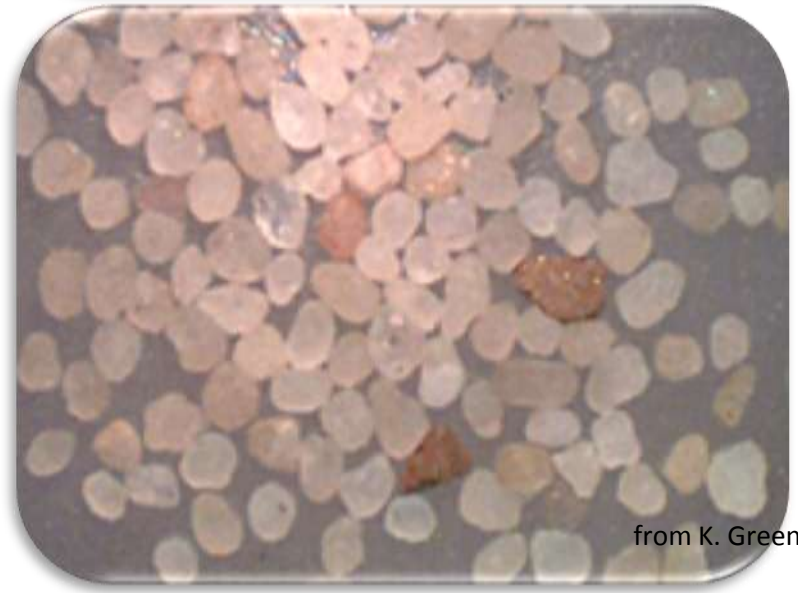
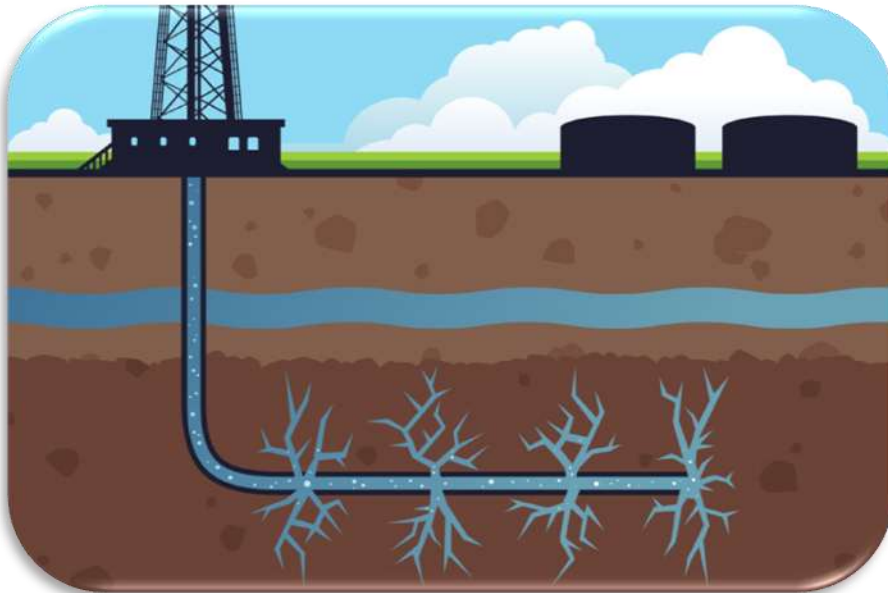
December 1, 2011

January 12, 2011



# Old Methods – New Applications: Directional Drilling & Hydrofracking a well

*Horizontal drilling combined with hydrofracking increases well yield. Fluid pressure fractures the rock, sand grains keep the fractures open*



# What is Frac Sand?



- Quartz sand
- Highly rounded
- High compressive strength

Most desirable if:

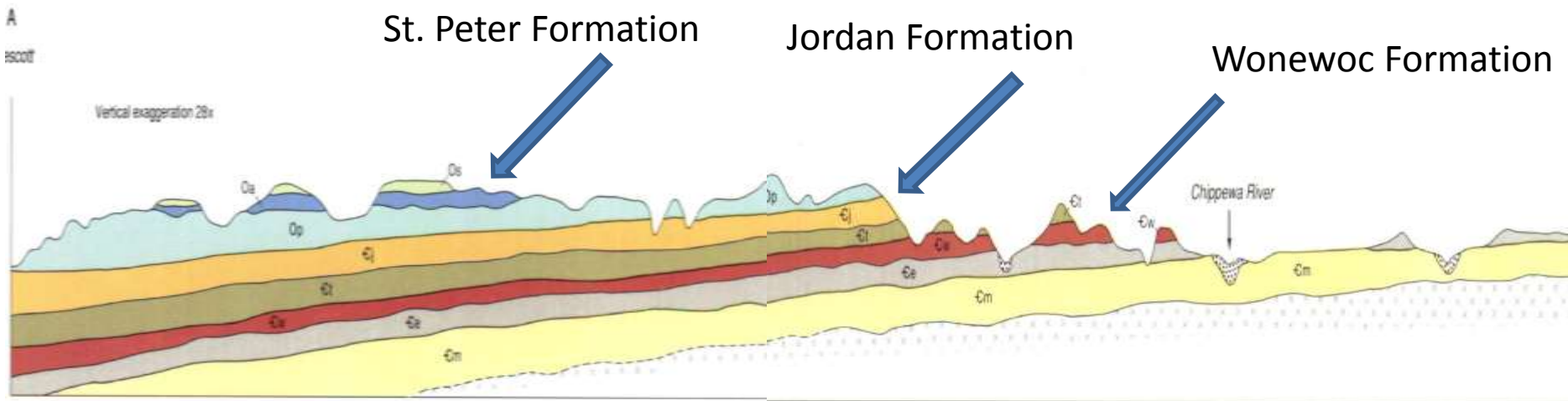
- Easily recoverable
- Minimal processing steps (costs), quartzite cement?
- Ability to get from mine to oil/gas drilling sites easily (close to transportation routes- i.e. train)

# WHY WESTERN WISCONSIN?

## It's the Geology

West

East

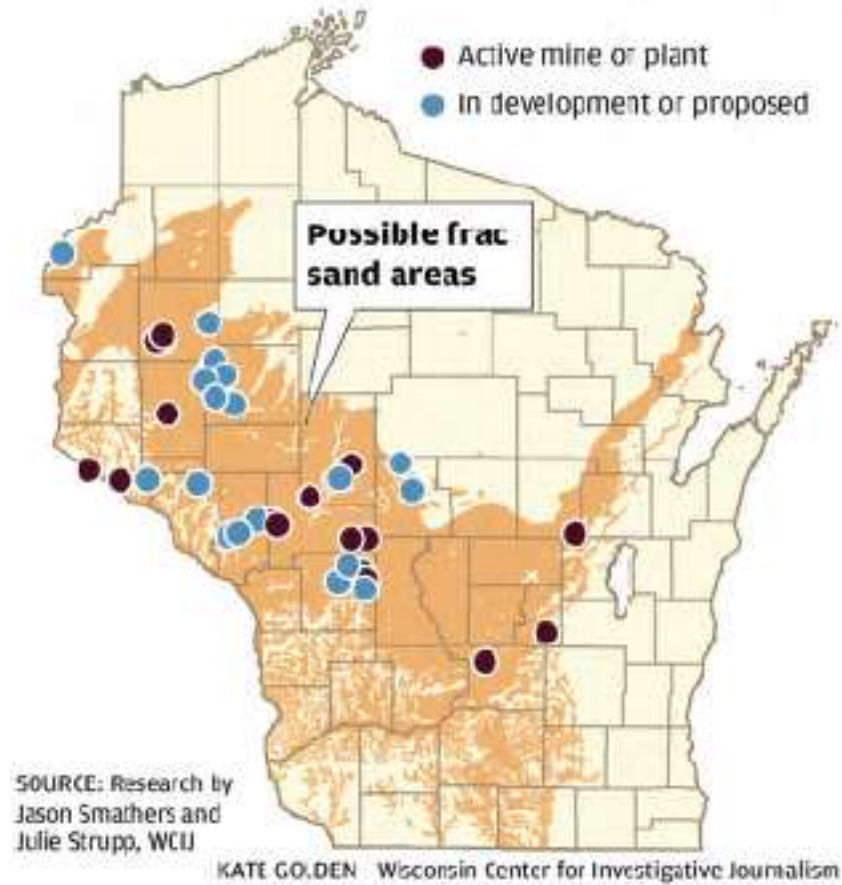


# High Quartz Content Sandstone Formations



# ACTIVE AND PROPOSED MINE SITES

## 'Frac sand' deposits in Wisconsin



# Frac Sand Mining in Wisconsin Barron, Dunn, Rusk and Chippewa Counties

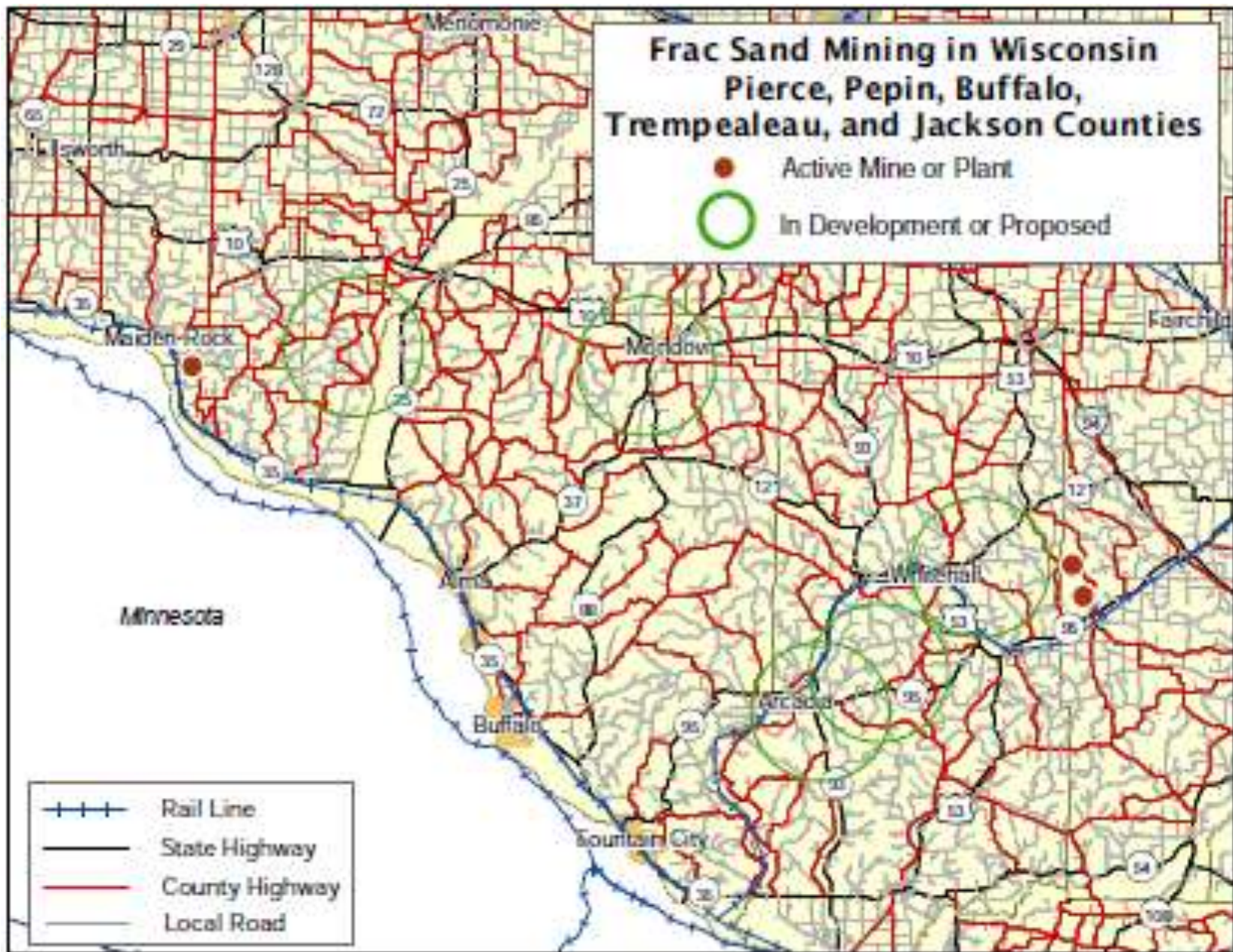
- Active Mine or Plant
- In Development or Proposed



- +++ Rail Line
- State Highway
- County Highway
- Local Road

# Frac Sand Mining in Wisconsin Pierce, Pepin, Buffalo, Trempealeau, and Jackson Counties

- Active Mine or Plant
- In Development or Proposed



# Frac Sand Mining in Wisconsin Jackson and Monroe Counties

- Active Mine or Plant
- In Development or Proposed



