



# Rock & Road: The Benefits of PG Reuse

Scan the QR code to learn more about the PG reuse study conducted by **The Fertilizer Institute**.

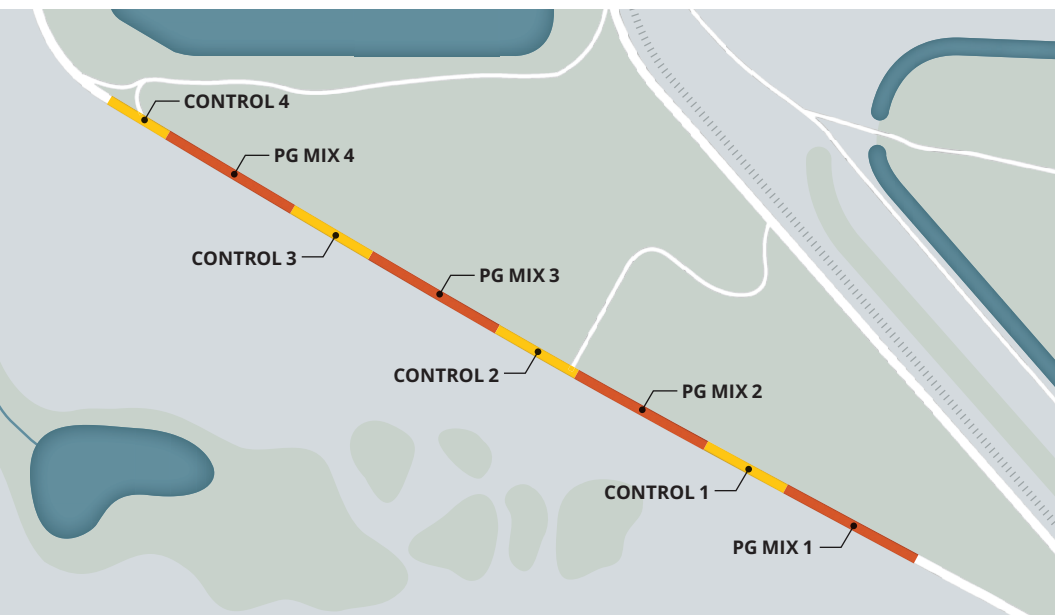
Phosphogypsum, also known as PG, is a byproduct created during the phosphate fertilizer manufacturing process. In the United States, PG is generally required to be stacked and stored.

**But Mosaic wants to put PG to work.** The Environmental Protection Agency (EPA) has approved a pilot project allowing PG to be used in a test road at our New Wales facility. PG will be blended with other aggregate materials like concrete to make up the base, the layer of a road located below the pavement. PG can replace the use of limited resources. It will reduce the need for gypstacks, allowing for land to be put to more productive use.

## About the Project

When processed with water, PG acts like a giant sponge as a highly absorbent material, making it an ideal ingredient to help prevent road decay over time.

The pilot road is 3,200 feet long and separated into different sections to compare different road base mix design options. Each section has a dedicated control adjacent to it. After completion, the road is monitored for at least 18 months.



**8** segments of road  
see map on left

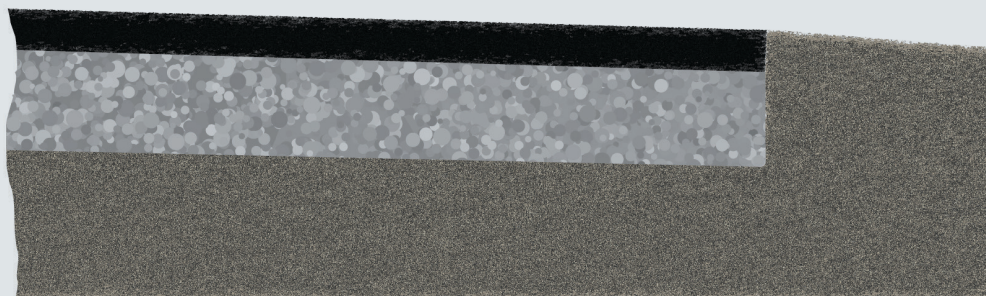
**4** controls  
300 feet each

**4** PG mixes  
50% PG, 50% other materials -  
500 feet each

**~1,200** tons of PG  
used in pilot

## Proposed Road Design

ASPHALT  
ROAD BASE  
SUBGRADE



# Safety Measures

- Approval from EPA
- Naturally Occurring Radioactive Materials (NORM) are found at low levels in phosphate ore mined in Florida. In PG, NORM is well below the EPA risk threshold.



*“Trust the science. A host of regulatory partners are involved throughout the process. Federal regulations require the EPA to perform a rigorous scientific risk analysis when evaluating a request to reuse phosphogypsum beneficially. The impacts to human health and the environment are the primary focus of that analysis. At the end of the day, we welcome robust testing. We want people to know this is a worthwhile resource, not a waste, and we are decades behind others who long ago realized just that.”*

-Statement from The Mosaic Company

# Pre & Post Construction

Report completed on PG as a road base from the Florida Dept. of Transportation and PG reuse by The Fertilizer Institute.



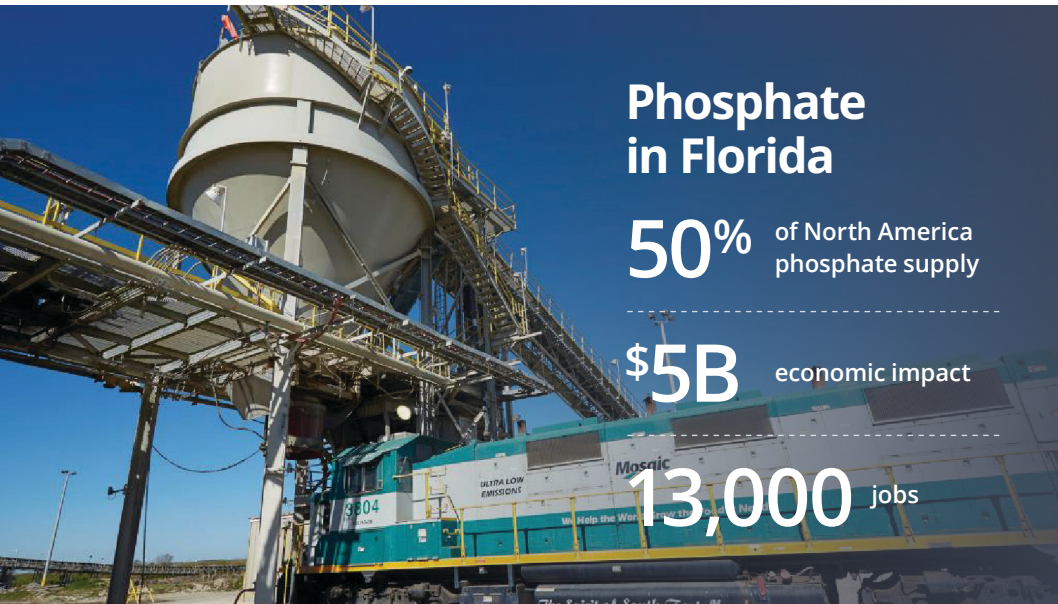
Monitoring wells were installed to understand hydraulic conditions.



Soil samples were taken adjacent to the pilot road.



Monitoring of soil and water continues for at least 18 months.



## Phosphate in Florida

**50%** of North America phosphate supply

**\$5B** economic impact

**13,000** jobs

## PG Uses Around the Globe

**20+** Used in over 20 countries

**50+** uses of PG

**40M** tons recycled and reused annually



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