New Wales Phase III Gypstack Extension

Products made at Mosaic's New Wales Manufacturing Facilty









Customers

Year established

TONS PRODUCED ANNUALLY and shipped to global and U.S.

Employees

Making Phosphate Fertilizer

The New Wales Manufacturing Facility converts phosphate rock to a soluble and ammoniated form of phosphate to be used as a nutrient by plants and animals

Step 1

Sulfuric acid is mixed with phosphate rock to create phosphoric acid



Step 2 Ammonia is added to create water soluble granules



Step 3

During the process, a by-product called phosphogypsum, or calcium sulfate, is produced

Phosphogypsum and Gypstacks

Phosphogypsum is required to be stacked in engineered structures (known as gypstacks) to meet U.S. EPA regulations. In addition to storing phosphogypsum, **gypstacks** are designed to collect rainfall and store process water, both of which are recycled throughout the fertilizer manufacturing process.



Permit Overview

- Extension of the active gypstack to the south
- Area is previously mined land
- Allows the same level of production to continue
- Extends life of the existing asset
- Maintains robust water quality limits



For more information contact Morgan Odum: Morgan.Odum@mosaicco.com | 863-232-6306 Or visit mosaicfloridaphosphate.com/communities/polk-county



Key Events

1992 South stack became operational

2003

South stack expanded

Water loss incident and remediation

2019

FDEP extension application submitted

Cooling Pond

2021 May: Draft permit received from FDEP & Polk County review underway Mid-year: Construction work to begin

2022

July: Current stack

expected to reach capacity

Phase III Gypstack Extension Map

Enhanced Permit Provisions

- New liner inspection requirements
- Continuing and broad engagement with the State Geologist
- Financial assurance to support implementation of gypstack contingency plan
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Phase III extension area consists of 230 acres of adjacent land

South Gypstack

Phase III Gypstack Extension

Putting Food on the Table

Extending the current New Wales south gypstack allows for production well into the future, helping provide a quality domestic phosphate supply to American farmers

6,000 Florida employees

and contractors help deliver these essential products





Mosaic produces nearly half of the U.S. supply of essential phosphatebased crop nutrients

Stack Safety and Monitoring

- Wide-ranging field geotechnical and geophysical explorations were conducted to evaluate the selected area
- **FDEP's siting regulations provide detailed standards;** however, we did even more to confirm the area selected was suitable
- Once the extension is constructed, we will continue to do more, including using state-of-the-art instrumentation to monitor microseismic activity in the stack
- Monitoring will complement the extensive groundwater monitoring system we now have around the stack system

Inset photo: Geophones (shown above) are an example of instrumentation we use to monitor microseismic energy to alert us to changes in a gypstack



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