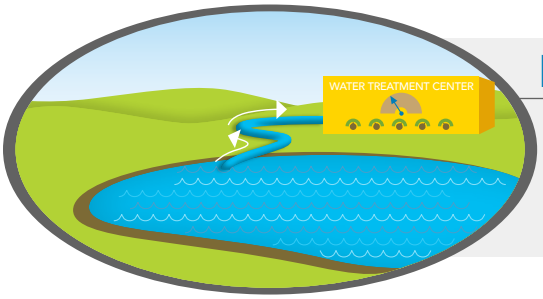
# Closing ash ponds safely and permanently

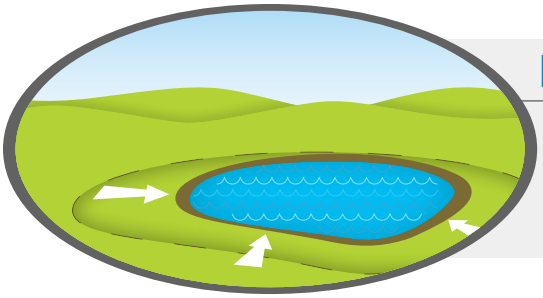
Numerous advanced engineering technologies go above and beyond closing in place.

## THE CLOSURE PROCESS



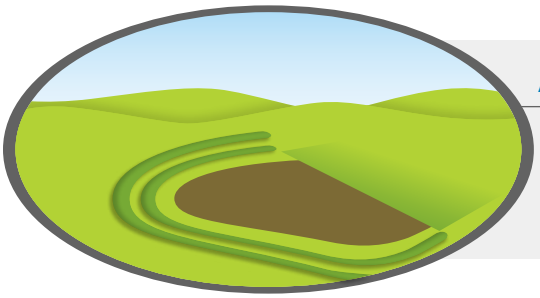

### Remove water

Advanced treatment ensures the water meets environmental standards before being removed.



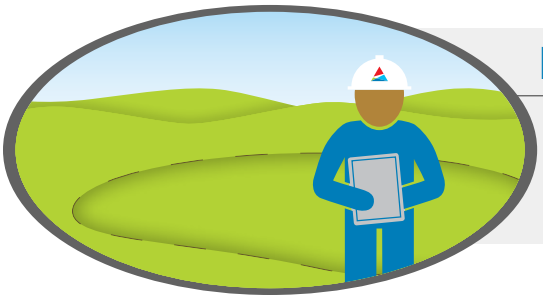
### Excavate and reduce

Material is carefully excavated and moved farther away from rivers and waterways, creating protective buffers while reducing the size of each pond.



### Additional protection

Using advanced engineering, additional protections, such as redundant dike systems and other structures, are being constructed for increased, robust flood protection.



### Permanent closure and ongoing monitoring

Finally, a specially engineered barrier is constructed over the material to keep it safely in place. Ongoing monitoring ensures water quality around the closed site is protected.

Alabama Power

*Source: EPA, Code of Federal Regulations, Title 40 CFR 257.102(d)

Alabama Power

# Plant Barry

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- The company is **treating and removing all water** from the pond.
- Material will be consolidated farther away from waterways, creating a **buffer up to 750 yards** from the Mobile River – a distance in some places longer than seven football fields.
- The size will be **reduced by 267 acres, or about 45 percent.**
- Using advanced engineering, Alabama Power will construct a **redundant dike system** as part of the plant's increased, **robust flood-protection measures.**
- In addition to the redundant dike system, Alabama Power will construct a subsurface **retaining wall around the entire consolidated footprint** to provide further groundwater protection. The site benefits from a unique, natural solid clay layer that extends up to 28 feet below the ash pond. The retaining wall will extend below ground and tie into the clay layer to effectively seal the material in place.
- Additionally, an **internal drainage system** will be constructed around the perimeter of the consolidated footprint to accelerate the removal of water.
- The company will install a **specially engineered barrier** over the material to keep it safely in place.
- **Storm water systems** will be added to manage rainwater runoff.
- Alabama Power will **monitor groundwater** around the facility for at least 30 years to ensure ongoing protection of water quality.