



Southern Illinois Power Cooperative

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June 21, 2023

Illinois Environmental Protection Agency
DWPC - Permits MC#15
Attn: Part 845 Coal Combustion Residuals Rule Submittal
1021 North Grand Avenue East
Springfield, IL 62794-9276

**RE: SOUTHERN ILLINOIS POWER COOPERATIVE
MARION POWER PLANT
FORMER EMERY POND
DATA TRANSMITTAL JUNE 2023**

Dear Program Reviewer:

Consistent with the requirements of 35 Illinois Administrative Code Part 845.610(b)(3)(D), please find enclosed the groundwater monitoring data collected in May 2023 relative to the former Emery Pond.

As reported to the Agency in May 2023, due to field oversight during the March 2023 sampling event, the Groundwater Monitoring Plan Addendum #1 was not followed in its entirety. Following receipt and validation of laboratory results, several inconsistencies were noted including, but not limited to, incomplete purging and stabilization of monitoring wells resulting in samples collected from EP-3, EP-4, and EP-7 with elevated turbidity and corresponding anomalous analytical results. Due to the observed inconsistencies with the Groundwater Monitoring Plan Addendum #1, SIPC resampled monitoring wells EP-1, EP-2, EP-3, EP-4, EP-5, and EP-7. Review of laboratory data from the resampling effort confirmed that the March 2023 data were anomalous. A full discussion of this situation and both datasets will be included in the 2023 Annual Report.

The Emery Pond closure was completed on April 5, 2021. Southern Illinois Power Cooperative (SIPC) statistically determined detections above background, detections above the groundwater protection standards (GPS), and significant decreases (SSDs) using the methods described in the Groundwater Monitoring Plan Addendum #1 prepared by WSP USA Inc., formerly known as Golder Associates USA Inc., and dated October 2021.

The following constituents were detected at statistically significant levels above background:

- Arsenic
- Boron
- Calcium
- Chloride



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- Cobalt
- pH
- Sulfate
- Total Dissolved Solids

The following constituents were detected at statistically significant levels above the applicable GPS:

- Boron
- Calcium
- Chloride
- Cobalt
- pH
- Sulfate
- Total Dissolved Solids

The following SSDs were identified at monitoring well EP-4:

- Arsenic
- pH (increase relative to the lower limit)
- Thallium

Closure by removal of the former Emery Pond served as part of the approved groundwater correction action. SIPC will continue to monitor groundwater and report the results on a quarterly basis until concentrations are below the GPS for a period of three consecutive years.

Should you have any questions or comments regarding this Quarterly Progress Report, do not hesitate to contact me via my email address, wwatson@sipower.com.

Sincerely,

Wendell Watson

Jim 6/22/23

Wendell Watson
Director of Environmental Services
Southern Illinois Power Cooperative

cc: Mark Haney - WSP USA Inc.
Danielle Sylvia Cofelice - WSP USA Inc.