



Plains CO₂ Reduction (PCOR) Partnership
Energy & Environmental Research Center (EERC)

RESEARCH RELATED TO WATER AND CCS NEXUS COMPLETED

Plains CO₂ Reduction (PCOR) Partnership Phase III Task 14 – Milestone M62

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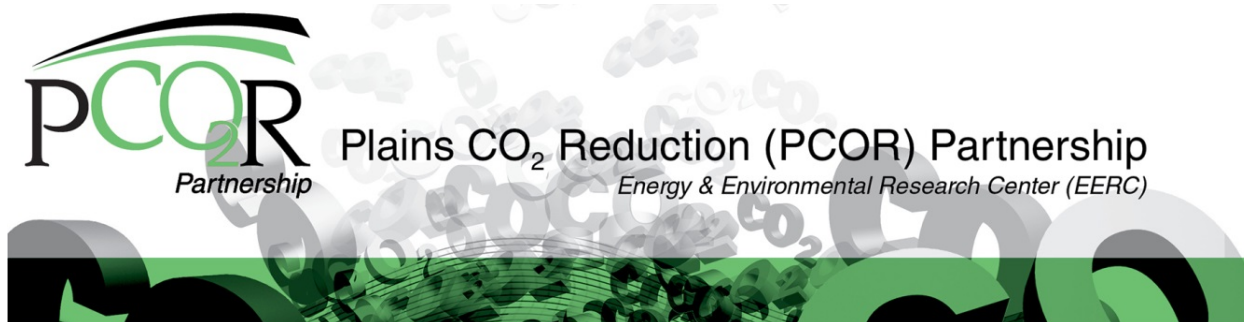
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BACKGROUND

The mission of the Regional Carbon Sequestration Partnership (RCSP) Water Working Group (WWG) is to address stakeholder concerns regarding emerging carbon capture and storage (CCS) technology and potential interactions with local and regional water resources. To that end, the WWG has produced several fact sheets and presentations, as well as a virtual special issue of the International Journal of Greenhouse Gas Control dedicated to the nexus of water and CCS. The WWG is currently developing its final product, a report entitled Major Research Focuses for Water and CCS. It will provide a time line of the overall activities of the WWG, a description of the specific stakeholder outreach activities that were completed, and a summary of the WWG findings and observations related to 1) characterization of water availability and supply, 2) assessment of the cost/benefit of extracting formation water, 3) the treatment and beneficial reuse of extracted water, 4) regulatory and long-term monitoring considerations, and 5) overarching economic considerations that have the potential to influence the water management activities associated with CCS. Finally, a path forward for continuing to examine and optimize water management during the capture and geologic storage of CO₂ will also be presented.

RESEARCH RELATED TO WATER AND CCS NEXUS COMPLETED

Over the past 9 months, a literature review has been conducted in order to update our understanding of the current state of knowledge of water and CCS issues. This information is being incorporated into the draft deliverable D107 – Report of Major Research Focuses for Water and CCS. In addition, after the August WWG Annual Meeting, a request was made of WWG members to provide any additional information or products their partnerships have produced over the past several years that may also contribute to this effort.

The outline for D107 has been approved by Andrea McNemar, and work is commencing on writing D107. The plan is to prepare D107 such that it can be submitted as a paper for GHGT-14. An abstract to GHGT-14 will be submitted before the December abstract deadline.