Technical Workshop on Water Acquisition Modeling: Assessing Impacts Through Modeling and Other Means June 4, 2013

US EPA Conference Center at One Potomac Yards Arlington, VA

June 4:

8:55 am

Panel:

8:00 am	Registration/Check-in	
8:30 am	Welcome and Introductions	
8:40 am	Opening Remarks	Glenn Paulson, Science Advisor, US EPA
8:45 am	Purpose of Workshop	Workshop Co-Chairs: Jennifer Orme-Zavaleta, US EPA James Richenderfer, Susquehanna River Basin Commission

Session 1: Data on Water Acquisition and Water Recycling/Reuse

Questions of Clarification

Break (10 minutes)

Facilitated discussion among workshop participants focusing on key questions:

- What existing sources of data could be used to better understand the effects of hydraulic fracturing water acquisition on water system availability?
- What are key attributes of a scientifically robust approach to measuring and monitoring hydraulic fracturing water use and disposition?
- What is the current state of industry practice with respect to recycling/reusing water for hydraulic fracturing operations?
- What are the long-term lifecycle implications and regional trends of recycling/reusing water in hydraulic fracturing operations?

11:45 am	Summary of S	Session 1	Workshop	Co-Chairs

12:00 pm Lunch and Poster Session

Session 2: Hydraulic Fracturing Water Acquisition and Water Availability Modeling Approaches

1:15 pm	Panel:		
	 Evaluating Scenarios of Potential Impact of Water AcquisitionStephen Kraemer, US EPA 		
	 Mapping Water Availability and Cost in the Western United States Vincent Tidwell, Sandia National Laborate 		
	 Integrated, Collaborative Water Research in Western Canada Ben Kerr, Foundry Spatial Ltd. 		
	 Water Needs and Availability for Hydraulic Fracturing in the Bakken Formation, Eastern Montana 		
	Questions of Clarification		
	Break (10 minutes)		
	Facilitated discussion among workshop participants focusing on key questions:		
	 What would a more generalized, conceptual model look like for assessing hydraulic fracturing impacts in different areas of the US and at different scales? 		
	– What factors should be included in a generalized model?		
3:45 pm	Summary of Session 2Workshop Co-Chairs		
3:55 pm	Closing Remarks		
4:00 pm	Adjourn		

Poster Session

Water and Energy Simulation Toolset (WEST) Robert Jeffers, Idaho National Laboratory

Utilizing Produced Water as a New Water Resource Andrew Stewart, Energy Water Solutions, LLC