Powder River Basin Coal Bed Natural Gas Interagency Working Groups Wildlife, Aquatics, and Hydrology Research Meeting December 2-3, 2009 Holiday Inn, Sheridan, Wyoming

Agenda

Wednesday December 2 nd		
8:00-9:00	Registration/Coffee	
9:00-9:15	Welcome: Dale Tribby (BLM-Miles City) and Windy Davis (Montana Fish, Wildlife, and Parks)	
Session 1 - Moderator- Brad Schmitz (Montana Fish, Wildlife and Parks)		
9:15-9:40	An ecological evaluation of the effects from Fidelity's MPDES discharges to aquatic life in the Tongue River, Benjamin Parkhurst*(HAF, INC.) and David Pillard (AECOM Environment)	
9:40-10:05	Identifying the cause of laboratory whole effluent toxicity to <i>Ceriodaphnia dubia</i> from Fidelity's CBNG produced water discharges and assessing the potential effects in the Tongue River, David Pillard* (AECOM Environment) and Benjamin Parkhurst (HAF, INC.)	
10:05-10:25	Characterization of biological communities in streams of the Powder River structural basin, Wyoming and Montana, 2005-2008, David Peterson* and Katherine Foster (USGS)	
10:25-10:40	Break-	
10:40-11:05	A discussion of the available data and methods that may be used to calculate a sodium bicarbonate water quality standard in the Powder/Tongue watershed of Montana and Wyoming, Aida Farag*, David Harper (USGS), Trevor Selch and Don Skaar (Montana Fish, Wildlife and Parks)	
11:05-11:30	Bicarbonate interactions and effects with diel variations in metals concentrations in the Powder River Basin, Rod McNeil*(Montana DEQ)	
11:30-12:00	Panel Discussion (Parkhurst, Pillard, Peterson, Farag, McNeil)	
12:00-1:30	Lunch (On your own)	

Wednesday Afternoon -Concurrent Sessions

Session 2-Side A- Tom Bills (BLM, Buffalo)-

1:30-1:55	West Nile virus ecology in sagebrush habitat and impacts on greater sage grouse populations, David Naugle* and Brett Walker (University of Montana)	
1:55-2:20	Using solar powered GPS/Satellite transmitters on greater sage-grouse in northeastern Wyoming: An overview of objectives and preliminary results, Chad Olson*, Matt Dzialak, Larry Hayden-Wing, and Jeff Winstead (Hayden-Wing Associates, LLC)	
2:20-2:45	Coda NetLauncher: A mobile tool for capturing Greater Sage-Grouse (<i>Centrocercus urophasianus</i>), Andrew Sutphin*, Tom Maechtle, Linette Sutphin, Tyler Emme, and John Fredland (Big Horn Environmental Consultants)	
2:45-3:00	Break-	
3:00-3:25	Analyzing impacts of CBNG development on nesting raptors, Courtney Frost* (BLM, Buffalo)	
3:25-3:50	Herptile monitoring in the PRB, Bryce Maxell* (Montana Natural Heritage Program)	
Session 2-Side B- Moderator- Kathy Brus (BLM, Buffalo)		
1:30-1:55	Modeling habitat availability in a Great Plains river system to assess the effects of energy development-related flow augmentation, Anna Senecal* (Wyoming Game and Fish Department) and Wayne Hubert (USGS Wyoming Cooperative Fish and Wildlife Research Unit)	
1:55-2:20	Object oriented classification of riparian and aquatic habitats along a section of the Powder River in north central Wyoming using Quickbird and Aerocam Imagery, Robert McDougal* (USGS) and Gretchen Meyer (BLM, Cheyenne)	
2:20-2:45	Evaluation of conceptual and quantitative models of groundwater impacts after 10 years of CBM development in the Powder River Basin, southeastern Montana, Andrew Bobst*, John Wheaton, and Elizabeth Meredith (Montana Bureau of Mines and Geology)	
2:45-3:00	Break-	
3:00-3:25	Considerations for evaluating coalbed methane infiltration pond sites based on site studies in the Powder River basin of Montana and Wyoming, John	

	and Geology)	
3:25-3:50	Regional Groundwater Monitoring in the Powder River Basin, Wyoming, Chris Williams* (BLM, Buffalo)	
3:50-4:15	Panel Discussion (Bobst, Wheaton, Williams)	
Adjourn for the day		
Thursday December 3 rd		
8:00-8:30	Registration/Coffee	
Session 3- Moderator- David Wood (BLM, Montana State Office, Billings)		
8:30-8:55	Monitoring coal-bed methane development effects on surface-water quality of the Tongue and Powder Rivers, Kyle Blasch* and Steve Sando (USGS, Montana Water Science Center)	
8:55-9:20	Fortification Creek and development of coalbed methane, Jim Verplancke*, Annie Irwin, and Jennifer Spegon (BLM, Buffalo)	
9:20-9:45	Identifying disturbance mechanisms influencing resource selection by elk in a natural gas development field, Clay Buchanan* and Jeffrey Beck (University of Wyoming)	
9:45-10:00	Break-	
10:00-10:25	Sage grouse population dynamics: how important are individual vital rates for population growth?, Rebecca Taylor*, Scott Mills, David Naugle (University of Montana) and Brett Walker (Colorado Division of Wildlife)	
10:25-10:50	Sage-grouse and energy development: a synthesis of biological knowledge, David Naugle* (University of Montana), Kevin Doherty (Wyoming Audobon), Brett Walker (Colorado Division of Wildlife), Matt Holloran (), and Holly Copeland ()	
10:50-11:15	Identifying thresholds of persistence in a shrinking landscape: impacts of human disturbance in greater sage-grouse nesting grounds, Jason Tack* (University of Montana)	
11:15-11:40	Panel Discussion (Taylor, Naugle, Tack, Olson, Sutphin)	
11:40-12:00	Wrap Up	

Wheaton*, Andrew Bobst, and Elizabeth Meredith (Montana Bureau of Mines

and Geology)