

PMLevyCOLPEm Resource

From: Bruner, Douglas
Sent: Tuesday, January 12, 2010 3:31 PM
To: Snead, Paul
Cc: LevyCOL Resource
Subject: Topic for Thursday's Teleconference

Paul,

The following is related to recalibration of the groundwater model. The SME will be available to present NRC data needs during Thursday's teleconference:

In response to RAI 5.2.2-4, PEF provided a revised groundwater model evaluating the simulated hydrological effects of proposed LNP operational pumping on the groundwater aquifer (see technical memorandum 338884-TMEM-123 authored by CH2MHILL). Under the revised model, potential groundwater drawdown near the wellheads could approach 2.5 feet (30 inches), and a drawdown of 0.5 feet (6 in) could extend up to 3 miles from the wellheads (see Fig 31 of TM 338884-TMEM-123 for simulated drawdown at year 60). This groundwater drawdown zone would encompass much of the LNP site and include many acres of wetlands.

Please provide an assessment of the potential effects of LNP operational pumping on wetlands that lie in and around the wellfield site, and the need for additional wetland mitigation to compensate for any impacts identified. Provide wetland impacts (in acres) according to both FLUCCS cover types (Level 3) and NWI wetland types for each relevant drawdown category (e.g., 0.5 to 1 ft, 1 -2 ft; 2+ ft). Please consider the following issues in this evaluation:

- Wetland delineations have revealed that wetlands near the CFBC are declining in vigor to the point that some may no longer qualify as wetlands. The suspected cause is a local decline in the groundwater table that occurred following construction of the CFBC. Are these wetland changes represented in the delineation maps being prepared for this area? Do these wetland changes affect any areas identified as potential wetland enhancement sites in the BRA (2009) conceptual wetland mitigation plan?
- Many of the wetlands that could be affected by operational pumping lie within areas where wetland mitigation via enhancement is proposed (see BRA 2009). Does operational pumping have the potential to limit or eliminate the use of some wetlands for mitigation?

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