



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

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April 8, 2011

CERTIFIED MAIL #7008 0500 0001 0080 2418
RETURN RECEIPT REQUESTED



Mr. Paul Pike
Environmental Safety and Health, Ameren Services
1901 Chouteau Avenue
P.O. Box 66149, MC 602
St. Louis, MO 63166-1419

RE: Detailed Site Investigation Report for the Ameren Missouri Labadie Power Plant, Proposed Utility Waste Disposal Area, Franklin County, Missouri, February 4, 2011 and revised data submitted on March 30, 2011; located in SW $\frac{1}{4}$, section 8, T. 44 N., R. 2 E. and section 17, T. 44 N., R. 2 E.

Dear Mr. Pike

The Geological Survey Program (GSP) has completed the technical review for the "Detailed Site Investigation Report, Ameren Missouri Labadie Power Plant, Proposed Utility Waste Disposal Area, Franklin County, Missouri," dated February 4, 2011 and revised data submitted on March 30, 2011. The GSP concludes that the Detailed Site Investigation (DSI) Report for the proposed 400-acre utility waste landfill (UWL) is complete and adequately characterizes the geology and hydrology in accordance with the state laws and regulations concerning the suitability for development of a utility waste disposal facility. Therefore, the DSI and characterization report is approved. The GSP is offering comments, which are included in the Landfill Report (ID# F01911), related to the groundwater monitoring program that is to be addressed as part of the construction permitting stage of the UWL.

Ameren Services may now advance the proposed UWL site to the construction permitting stage. Please contact the Solid Waste Management Program of the Missouri Department of Natural Resources (573-751-5401) for assistance with the construction permit application process.



SCHEDULE CJG-S11

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If you have any questions, please contact Larry Pierce of this office at P.O. Box 250,
Rolla, MO 65402 or (573) 368-2191.

Sincerely,

DIVISION OF GEOLOGY AND LAND SURVEY



Jerry Prewett, Director
Geological Survey Program

cbv:bh

c: Solid Waste Management Program
Saint Louis Regional Office
Region I – East Central SWMD



Missouri Department Of Natural Resources

Division of Geology and Land Survey
P.O. Box 250
Rolla, Missouri 65402
Phone - 573.368.2161 Fax - 573.368.2111
E-mail - gspgeol@dnr.mo.gov

DATE
4/1/2011
Identification Number
F01911

Landfill Report

TO **Paul Pike, Ameren Environmental Services**
FROM **Christopher B. Vierrether, Geologist, Environmental Geology, GSP**
SUBJECT **Ameren Labadie Power Plant, Proposed Utility Waste Disposal Area**



Location Quadrangle **LABADIE**
Section **17** Township **44N** Range **2E** County **FRANKLIN**
Latitude **0.000000** 38 Deg 33 Min 34 Sec North Longitude **0.000000** 90 Deg 49 Min 5 Sec West
Additional Location Information **SW1/4 Sec. 8, T. 44 N., R. 2 E.**

Requested by

Previous Reports ☐ Not applicable

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Comment 1: The future status of the irrigation well currently located near the northeast corner of the site is unclear. Further discussion is necessary to determine the well's potential effect to the well monitoring program and design.

Comment 2: At this time, the GSP neither agrees nor disagrees with the representative range of groundwater velocity for the site suggested in section 5.2.7 (page 44) of the DSI Report. Groundwater velocities are dependent upon gradients at specific times. Therefore, those calculated are a reflection of specific conditions at that time, though they appear to be within the range of characteristic groundwater velocities for an alluvial setting.

Comment 3: At this time, the GSP neither agrees nor disagrees with the conceptual monitoring well network suggested in section 8.0 (page 54 and Figure 33) of the DSI Report.