

KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
phone 785-864-3965
fax 785-864-5317

Proposed Project for Application to the Kansas Department of Health and Environment for a Loan from the Kansas Water Supply Loan Fund

Applicant: City of Phillipsburg
Water-Supply System – Redrilling/Replacement of Two Wells

Contact Person: Todd J. Anderson, P.E.
Address: Bucher, Willis & Ratliff Corporation
609 West North Street
Salina, KS 67401-2064

Sent to the Kansas Geological Survey for environmental review.

Agency Review Comments:

The short letter describing the project does not indicate the reasons that Wells 21 and 25 do not have sufficient production rates, thereby resulting in the decision to redrill and replace them with wells having better production rates. Did the wells have greater production rates in the past? Have the well screens become clogged due to precipitation of ferric and manganese oxyhydroxides and bacterial mats? If so, then has the possibility of the removal of this scale and mat deposit been considered? Are the well screen/casing diameters small? Will the replacement wells have larger diameters? Well 21 is close to the North Fork of the Solomon River and would draw in water from the river through the alluvial aquifer when the river is flowing. Has the production decreased in this well due to the general long-term decrease in flow in the river? If so, then replacement may not result in increased production if the well construction is to be the same. If the production rates are to be greater than for the original water rights for the two wells, have the necessary permit modifications been obtained from the Kansas Department of Agriculture? These and possibly more factors should be considered to make sure that the most economical and practical approaches are used to obtain the increased ground-water supply.

In general, the long-term benefits of the increased water-supply volume should offset any short-term adverse environmental impacts during well redrilling and construction.

Recommended Action:

- ☒ Clearance of project should be granted
- ☐ Clearance of project should not be granted
- ☐ Clearance of project should be delayed until the issues or questions have been clarified
- ☐ Clearance of project should not be delayed, but the applicant (in the application) should address or clarify the questions or concerns indicated above

Donald Whittemore
Reviewer's Name

Geohydrology Section, Kansas Geological Survey
Division/Agency

8/8/06
Date


Reviewer's Signature

The above discussion represents our best assessment based on the information that the Kansas Geological Survey has about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of this facility or property. The information provided in this letter is from regional or county-wide studies and should not be used as a substitute for detailed site characterization by a licensed geologist or engineer. It is the responsibility of the applicant to provide any required site characterizations.

July 12, 2006

Kansas Geological Survey
University of Kansas
1930 Constant Ave., Campus West
Lawrence, KS 66047

Re: Environmental Review
City of Phillipsburg, Kansas
Potable Water Improvements
BWR Project No. 2005-0182.02

Kansas Geological Survey:

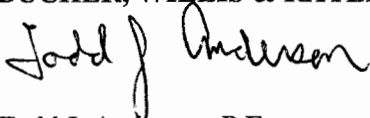
The City of Phillipsburg is preparing an application to the Kansas Department of Health and Environment for a loan from the Kansas Public Water Supply Loan Fund to finance potable water system improvements. In a letter dated 24 April 2006, the proposed raw water supply wells slated for elimination and re-drilling were Wells No. 33 and 34. Since that time, the decision has been made to leave these wells intact and re-drill Wells No. 21 and 25. New wells in the very near vicinity to Wells No. 21 and 25 are now proposed. The accompanying figure, Figure 1, is enclosed to indicate the location of the existing Wells 21 and 25. Again, new wells will be drilled very near these two in order to replace them with wells having better production rates.

We would appreciate your review of the project description and location, and any comments you may have, within 30 days. A project review form is enclosed for your use.

Please contact Todd Anderson, P.E. at 785-827-3603 if you have questions regarding this project. Thank you for your attention in this matter.

Sincerely,

BUCHER, WILLIS & RATLIFF CORPORATION



Todd J. Anderson, P.E.
Project Manager
Environmental Engineering

TJA/tja/ds

Enclosures

609 West North Street
Salina, KS 67401-2064

Phone 785.827.3603
Fax 785.827.3029
www.bwrcorp.com

The following form may be used by the Review Agency/Commission for comments in response to the request for clearance from the proposed Public Water Supply Loan Fund Project.

_____	Army Corps of Engineers
_____	Kansas Biological Survey
_____	State Conservation Commission
_____	Kansas Corporation Commission
_____	Division of Water Resources/Kansas Department of Agriculture
_____	Kansas Geological Survey
_____	Kansas State Historical Society, State Historic Preservation Office
_____	Kansas Water Office
_____	Kansas Department of Wildlife & Parks
_____	US Dept of Agriculture - Natural Resources Conservation Service
_____	Kansas Department of Health and Environment
_____	US Dept of the Interior - Fish and Wildlife Service

Agency Review Comments: (to be completed by reviewing agency and returned to applicant contact person at name and address shown below)

Comments: _____

Recommended Action: (to be completed by the reviewing agency and returned to applicant contact person at name and address shown below.)

_____	Clearance of project should be granted
_____	Clearance of project should not be granted
_____	Clearance of project should be delayed until the issues or questions have been clarified.
_____	Clearance of project should not be delayed, but the applicant (in the application) should address or clarify the questions or concerns indicated above.)

_____ Reviewer's Name	_____ Division/Agency/Commission	_____ Date
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Project Title: Public Water Supply Loan Fund Application

Applicant: _____

Contact Person: _____

Address: _____

City, State: _____ Zip: _____ Phone: (____)-____-_____

City Water Wells = 
 City Monitoring Wells = 

FIGURE 1

