

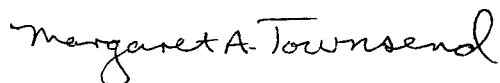
Harlan D. Foraker, P.E.
Certified Engineering Design, P. A.
810 West Douglas, Suite C
Wichita, KS 67203-6105

Dear Mr. Foraker,

I was asked to comment on the wastewater treatment expansion plans for the City of Viola in Sedgwick County. I noticed that the area of the proposed lagoon expansion is situated on Renfrow silty clay loam soils. These soils are of moderate permeability and suitable for the lagoons provided that the soil is well compacted or lined. I have done some work in Sedgwick County and found that there are areas with increasing nitrate in the ground water. I would presume that KDHE rules on wastewater lagoon construction includes procedures for overflow or leakage issues. The project is needed and should proceed provided that the question of liners or compaction of the lagoons is addressed.

The above comments are based on regional geologic conditions and limited information available to the KGS at the time of writing and cannot be used in substitute for a detailed site characterization. Other geologic conditions, not discussed here, or for which the KGS has no knowledge, may affect the viability or safe operation of this facility or property. Geotechnical engineering and design are outside the purview of the KGS. It is the responsibility of the applicant to produce any detailed site characterizations, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Sincerely,



Margaret A. Townsend
Hydrogeologist
Geohydrology Section

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 and Parks
☐ US Dept. of Agriculture - Natural Resources Conservation Service
☐ Kansas Department of Health and Environment
☐ US Department 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.

Margaret A. Townsend KGS 12-21-07
Reviewer's Name Division/Agency/Commission Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Viola, Kansas
Contact Person: Harlan Foraker, P.E.
Address: 810 W. Douglas, Suite C
City, State: Wichita, KS Zip: 67203 Phone: (316) 262-8808

CERTIFIED ENGINEERING DESIGN, P.A.

810 West Douglas, Suite C
Wichita, KS 67203-6105
(316)262-8808 Office
(316)262-1669 Fax

November 14, 2007

Ms. Margaret A. Townsend
Kansas Geological Survey
University of Kansas
1930 Constant Avenue
Campus West
Lawrence, KS 66047

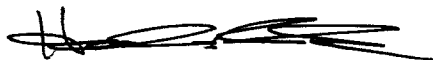
Re: Proposed Wastewater Lagoon Expansion
Haven, Reno County, KS
Viola

Dear Ms. Townsend:

This letter is to notify your agency of a proposed expansion of the wastewater treatment lagoon facility for the City of Viola, Kansas. An expansion is being proposed to add a primary cell approximately 2 acres in size which will connect to the existing south berm of the lagoons and extend to the south of the existing lagoons. The proposed expansion is shown as the Proposed 2 acre Lagoon on the attached lagoon site plan drawing. The existing wastewater lagoons are permitted under NPDES permit #M-AR90-0001 and are located in the N.E. ¼ of Section 33, Township 29 South, Range 3 West, Sedgwick County, Kansas. The receiving stream for the lagoon discharge is an unnamed tributary to the Ninnescah River.

The site of the proposed lagoon expansion is in process of being purchased by the City of Viola. An aerial photograph of the site and a site plan for the proposed lagoon expansion are attached for your review. The proposed lagoon expansion is proposed to begin in the Spring of 2008 and we would appreciate receiving your comments within 30 days of this letter. If you have any questions or desire additional information please call me at (316)262-8808.

Sincerely,



Harlan D. Foraker, P.E.
Kansas P.E. No. 10891
CERTIFIED ENGINEERING DESIGN, P.A.

attachments

cc: Ronda Mollenkamp, Mayor, City of Viola, 120 South Main Street, Viola, Kansas 67149
Rod Geisler, P.E., Chief, Mun. Programs Section KDHE, Curtis State Bldg., 1000 S.W.
Jackson St., Suite 420, Topeka, KS 66612

