

May 8, 2007

Estell Johnson, P. E.
Project Engineer
Professional Engineering Consultants P.A.
303 S. Topeka
Wichita, KS 67202

Dear Ms. Johnson,

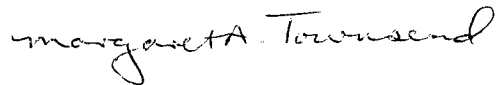
I was asked to review the City of Rose Hill plan for a wastewater treatment facility project for possible geologic impacts or concerns. I accessed the available soils data from the NRCS Web Soil Server site. According to their information the major soil in the treatment plant area is the Irwin silty clay loam. There was no mention in the materials I received concerning land application of sludge, so I presume that process will not be happening. If it is an option that was not mentioned, then a detailed soil evaluation should be undertaken to determine the loading rates and percolation rate of the silty clay loam.

The well records for the area suggest that the water table is approximately 20 ft or so below ground level. Unless there are overflow issues with the new plant design, it does not seem likely that the ground water would be impacted because of the treatment plant.

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
Geohydrology Section



Professional Engineering Consultants, P.A.

April 16, 2007

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

Reference: Rose Hill, KS Wastewater Treatment Facility
KSWPCSRLF Project No. C20 1720 01
PEC Project No. 34-06061-1-1770

To Whom It May Concern:

The City of Rose Hill is preparing an application to the Kansas Department of Health and Environment for State Revolving Loan Funds for the purposes of constructing a new Wastewater Treatment Facility (WWTF). Please consider this letter a formal request to conduct a "clearance/comment" review of the described project on behalf of the City of Rose Hill, KS.

Both the existing wastewater treatment lagoons and the proposed new Wastewater Treatment Facility are located in the W 1/2 of the NE 1/4 of Section 29, Township 28 South, Range 3 East, Butler County, Kansas. The proposed process is based upon a Biological Nutrient Removal Activated Sludge process followed by final effluent disinfection using UV light. The facility capacity is proposed to be 1.0 million gallons per day (MGD) average with a peak day flow capacity of 2.5 MGD. Under wet weather peak flow, the flow in excess of the new WWTF capacity will be diverted into the existing treatment lagoons.

The final effluent from the new treatment facility will be discharged through a new outfall cascade to Eight Mile creek. The project also includes a new Main Pumping (Lift) Station, associated gravity sewer and force main, and facilities for handling the biosolids generated by the Activated Sludge Process.

The following drawings are provided for your reference.

- Aerial photograph of the project vicinity
- USGS Quadrangle map of the project vicinity
- Key Map and Site Improvement Plansheets

Please address your review and clearance comments no later than May 18, 2007 to the following:

Estell Johnson, P.E.
Project Engineer
Professional Engineering Consultants, P.A.
303 S. Topeka
Wichita, KS 67202

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Kansas Geological Survey
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Please feel free to contact me at (316) 262-2691 if you have any further questions.

Very truly yours,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

A handwritten signature in black ink, appearing to read 'Estell Johnson', with a long horizontal flourish extending to the right.

Estell Johnson, P.E.
Project Engineer

EJJ/tac

Encl: As noted

cc: Mr. Rod Geisler, KDHE
Mr. Don Gibbins, EPA Region VII
Mr. Joel Pile, City of Rose Hill (w/o encl.)

Additional figures
on file were not scanned.