

Carl Slaugh
City Administrator
City of Basehor
P. O. Box 406
Basehor, KS 66007

Geohydrology Section
Kansas Geological Survey
1930 Constant Avenue
Lawrence, KS 66047
August 29, 2008

Dear Mr. Slaugh:

I am replying to your letter concerning the City of Basehor improvements to their public wastewater treatment system. I have two concerns for the area. The first is whether the lagoon will be lined or not. The depth to ground water in the area ranges from 14 to 50 ft. The soils in the area range from silty loam to silty clay loam and are fairly permeable. If a leak should ever occur in the lagoon contamination of the ground water in the area could occur. I presume that KDHE requires a liner but if not I would strongly suggest it.

The second concern is the location of the lift station. The Kennebec soils occur in the area near the 163rd site for the lift station. I presume precautions will be taken to prevent the lift station from being overwhelmed in case of excessive rain or flooding. Being near Hog Creek on a soil that is rated as frequently flooded by the NRCS tells me that perhaps some extra precautions should be included in your designs.

I think the project should occur if the above suggestions are given consideration. 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,

A handwritten signature in cursive script that reads 'Margaret A. Townsend'.

Margaret A. Townsend
Hydrogeologist



The City of Basehor

July 17, 2008

Dr. William Harrison
Kansas Geological Survey
KU – 1930 Constant Ave.
Campus West
Lawrence, Kansas 66047

Intergovernmental Review Process for Basehor WWTP Clearance/comments Request Letter

Dear Dr. Harrison:

The purpose of this letter is to request your organization review the project described herein and provide clearance or comments as part of the environmental review process.

The City of Basehor, Kansas is currently working with a consultant in the design of an upgrade and expansion to its existing wastewater treatment facility. Two project sites will be impacted. The scope of the work will include:

1. Expansion of the existing 163rd Street Lift Station including addition of a third pump, a chemical feed system, and a small electrical building to house new equipment.
2. Renovation of the existing headworks building at the treatment plant and replacement of all electrical and HVAC systems.
3. Addition of a second treatment train and replacement of the existing clarifiers to double to capacity of the biological treatment system from 0.56 to 1.12 million gallons per day.
4. Addition of anaerobic and anoxic basins to provide biological nutrient removal capacity to the system.
5. Installation of additional sludge pumps in two locations.
6. Renovation of the existing laboratory space.
7. Miscellaneous improvements to site lighting, security, and plant-wide process monitoring equipment.

The receiving stream for the treated effluent is Hog Creek, which ultimately drains into the Kansas River.

The project will occur in two locations. The site locations are shown on the attached figures. The treatment plant is located in the eastern ½ of the SE ¼ of Section 34, Township10S, Range 22E in Leavenworth County. The 163rd Street Lift Station is located in the northern ½ of the NE ¼ of the SE ¼ of Section 33.

The plant expansion will take place within existing City property, in an area measuring approximately 3 acres that is currently partially used for the existing plant, and the remainder of the property maintained with cool season fescue-type grasses and little to no additional vegetation. Improvements to the 163rd Street Lift Station will not significantly increase the footprint of that site, and the area is a mixture of gravel and native grasses.

There are not known or current environmental assessment documents available for either site, and there have been no reported issues related to critical habitats or endangered species in the project area.

Please submit your response to the address below within 30 days of receipt. If comment is not received within 30 days, it will be assumed that your organization has cleared the project.

Mr. Carl Slaugh, City Administrator
City of Basehor
2620 N. 155th Street
P.O. Box 406
Basehor, Kansas 66007

If you have any questions regarding this project, please contact Mr. Jeff Keller at 816-822-4371 or jkeller@burnsmcd.com.

Sincerely,

A handwritten signature in black ink that reads "Carl P. Slaugh". The signature is written in a cursive, flowing style.

Carl Slaugh

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USGS 1 km SW of Basehor, Kansas, United States 01 Jul 1988

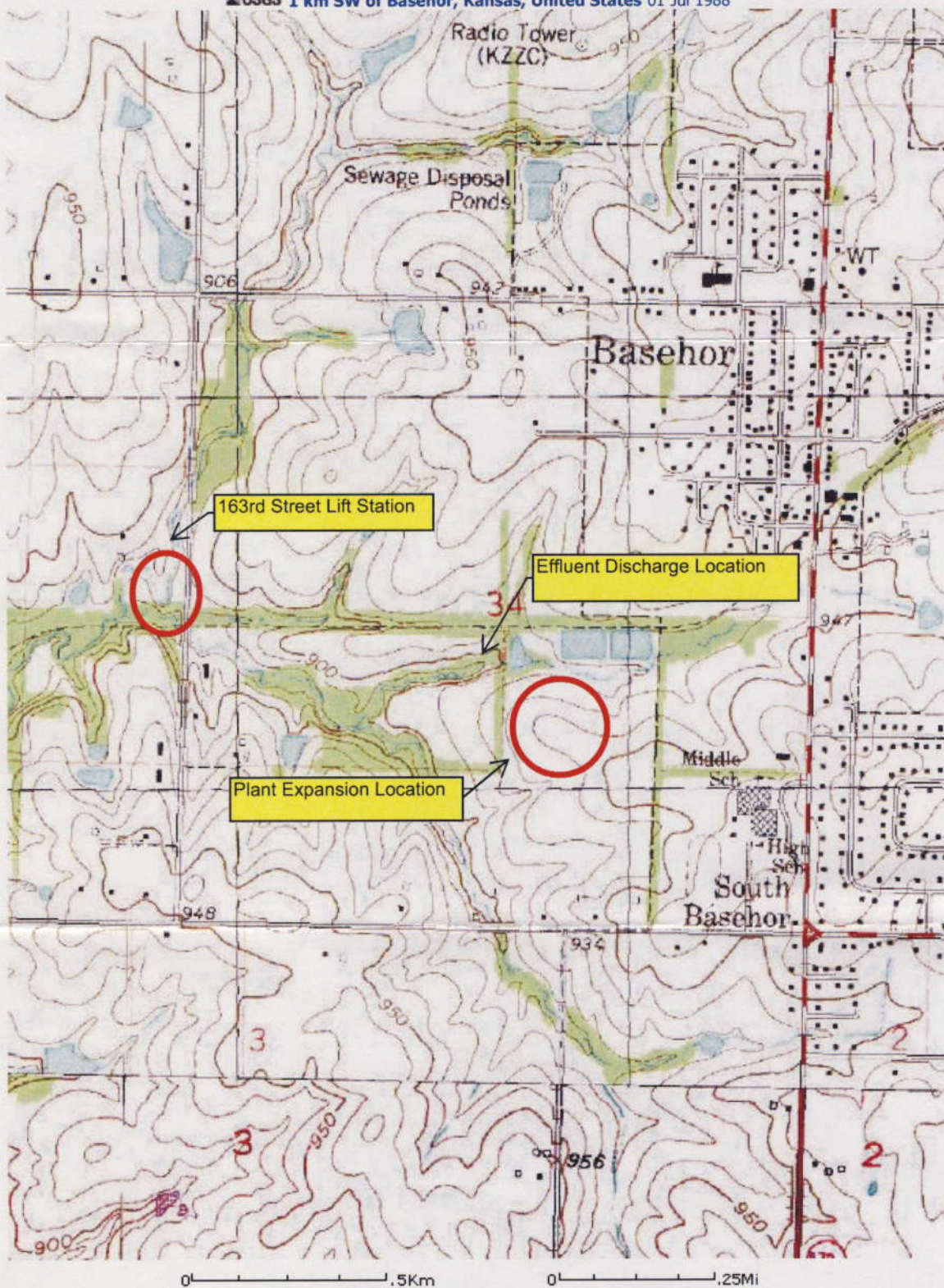


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