

Geohydrology Section
1930 Constant Avenue
Lawrence, KS 66047-3724
March 9, 2009

Corina Cox
Economic Development Coordinator
Northwest Kansas Planning and Development Commission
P.O. Box 248
Hill City, KS 67642

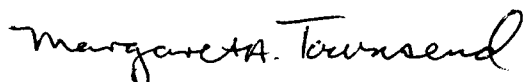
Dear Ms. Cox:

I have reviewed the plans for the City of Gorham discharging lagoon facility. Overall the project looks reasonable and will help the city expand their wastewater treatment capabilities. I see no problem with the project moving forward.

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

**NORTHWEST KANSAS PLANNING AND DEVELOPMENT COMMISSION
ENVIRONMENTAL ASSESSMENT REVIEW**

REQUEST FOR ACTION ON GRANT REVIEW

DATE: February 3, 2009

Agency Name:

Kansas Geological Survey
University of Kansas
1930 Constant Avenue – Campus West
Lawrence KS 66047-3726

Impact Categories:

Environmental Resources

Applicant's Name and Address:

City of Gorham
125 Market St.
Gorham, KS 67740

Project Title:

Sewer System Improvements

Project Number:

CDBG #09-PF-734
KDHE #C20-1702-01

Return No Later Than:

March 3, 2009

Return To:

Corina Cox
Economic Development Coordinator
Northwest Kansas Planning & Development Commission
P.O. Box 248
Hill City, KS 67642

Northwest Kansas Planning and Development Commission have submitted the enclosed proposal for an Environmental Assessment Review. Your review of this proposal as it affects regional or local interest will be appreciated. Your appropriate comments concerning the proposal should be submitted to Northwest Kansas Planning and Development Commission no later than the date specified above.

Comments filed on a proposal may include: (1) The extent to which the project is consistent with or contributes to the fulfillment of your agency planning within the state, region or locality; (2) How the proposal relates to state, regional or local objectives; and (3) The effect of the proposal on your agency's activities.

☒ No Impact Anticipated

☐ Potentially Beneficial

☐ Potentially Adverse—
Requires Documentation Only

☐ Requires Project Modification

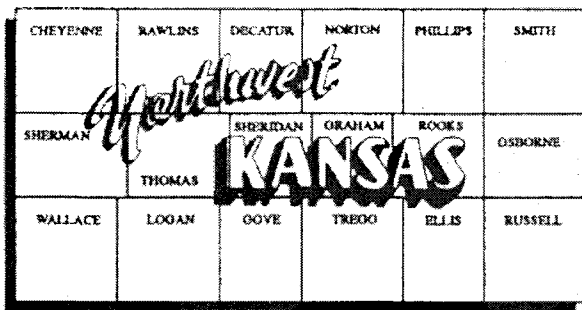
☐ Potentially Adverse—
Requires More Study

☐ Needs Mitigation

COMMENTS:

See attached letter.

Margaret A. Townsend, Hydrogeologist
Reviewer's Signature and Title



NORTHWEST KANSAS
PLANNING and DEVELOPMENT
COMMISSION
319 N. Pomeroy
Box 248
Hill City, Kansas 67642-0248
(785) 421-2151 Fax (785) 421-3496

Kansas Geological Survey
University of Kansas
1930 Constant Avenue – Campus West
Lawrence KS 66047-3726

Margaret Townsend

February 3, 2009

RE: City of Gorham/CDBG #09-PF-734
KDHE #C20-1702-01

Dear Sirs,

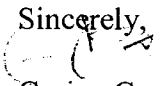
The City of Gorham was recently awarded a 2009 Community Development Block Grant (CDBG) from the Kansas Department of Commerce (KDOC) and has secured a Kansas Department of Health & Environment (KDHE) SRF loan to convert their existing lagoon facility to a 3-cell discharging facility. Improvements also include the installation of stone riprap on all interior dikes, lift station and backup power improvements, plus fencing around the entire treatment facility.

Our office is conducting an environmental assessment of the above referenced project and request your agency review the project and its potential environmental impact. Your agency may have responded to a previous environmental assessment of this project several years ago, however the scope of work has changed significantly since that time. Enclosed is a copy of the current scope of work, improvements layout and project location map for your reference.

An Environmental Assessment Review form is attached for your convenience. The form indicates specific impact categories you are to consider depending upon your agency's jurisdiction. **Please note the project cannot proceed until your review form is received by our office regardless of your response!** Our office must have documentation in the Environmental Review Record from your agency whether it is in letter form or on the attached review form, even if your office does not feel the proposed project will have an impact on the human and natural environment. Please elaborate in the comments section why you indicated the specific response.

Your prompt consideration of this request will be greatly appreciated. Please return the review form to my attention by March 3, 2009, as indicated on the Environmental Assessment Review form. Should you have any questions or need additional information, please email my office at nwkpdc@ruraltel.net or contact me at (785) 421-2151 at your earliest convenience.

Sincerely,


Corina Cox
Economic Development Coordinator

Enclosures

cc: City of Gorham (File: Environmental Review)

b. Scope of Work:

The scope of work consists of converting the existing lagoon facility to a 3-cell discharging facility. Improvements also include the installation of stone riprap on all interior dikes, lift station and backup power improvements, and new fencing around the entire treatment facility.

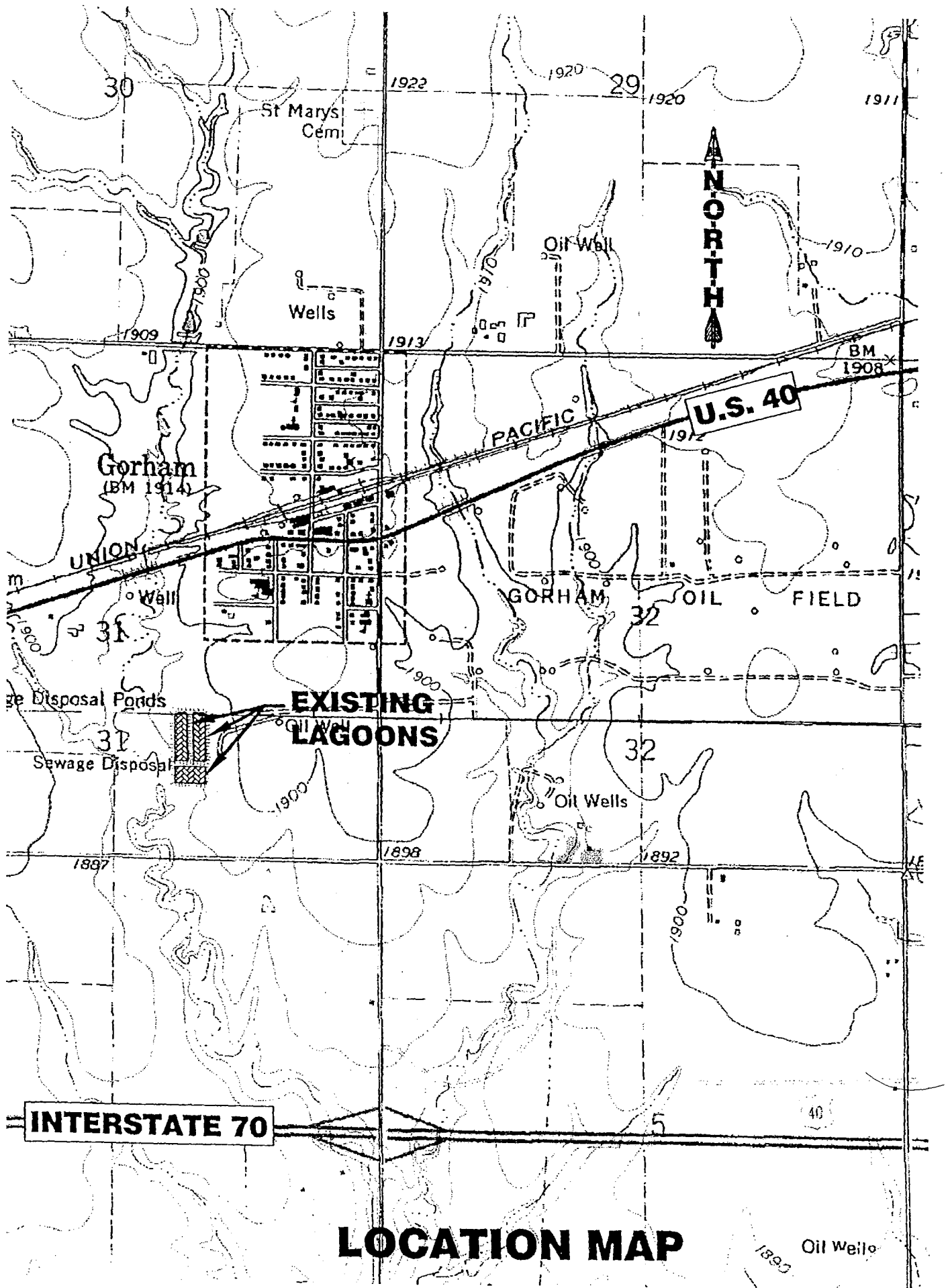
The scope of work will begin with 650 L.F. of internal piping and structure modifications. A new intake structure will be constructed at the entrance of the lagoon system. Three transfer structures will be strategically constructed throughout the system to facilitate "across the corners" treatment. A new discharge structure will be constructed to protect the exposed end of the discharge piping. New PVC transfer piping and gate valves will be constructed between the two new transfer structures. The existing pipe at Ponds 1 and 2 will be abandoned.

The existing concrete liners will be broken and left in place and 2,550 tons of stone riprap will be installed on all interior dikes resulting in a 12"± thick layer of riprap for slope protection. 1,050 tons of crushed rock dike surfacing will be added to provide a reliable driving surface for maintenance. Prior to placing the riprap on the dikes, the interior portions of the dikes will have 8,000 S.Y of Pond Sterilization applied to prevent weed growth in the newly placed riprap.

To make lift station improvements, the existing pneumatic ejector equipment will be removed and discarded. The existing concrete dry well will be converted into a wet well, and submersible pumps with lift out rail assemblies will be installed. A standby generator will be located at the lift station to provide emergency backup power. A single existing float activated non-clog pump located in the drywell chamber will help to facilitate the installation.

Upon completion of the project, 2,400 L.F. of fencing will be installed around the entire facility. 1.0 Ac. of seeding will follow. The budget also includes necessary mobilization and demobilization expenses.

The completed lagoon facility will meet current KDHE design criteria, and will be capable of handling a population of 370 people @ 108 gpcd. Project costs were estimated taking into consideration Davis-Bacon wage rates as required by the CDBG program. \$212,350 of CDBG funds are proposed to be used to pay for a portion of the wastewater treatment system improvements and 100% of CDBG administration. KDHE loan funds in the amount of \$212,350 are budgeted to include all of the engineering design and inspection costs, the remaining portion of the wastewater system improvements, legal fees, and KDHE loan administration.



LOCATION MAP