



KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West

The University of Kansas
Lawrence, Kansas 66047-3726
phone 785-864-3965
fax 785-864-5317

May 16, 2005

Phillip Fishburn
MAP, Inc.
P.O. Box 491
Haven, KS 67543

Dear Mr. Fishburn:

RE: Agency Review Transmittal Form
Proposed Red Bud Lake Improvement District, Wastewater System, West of Abilene, KS

On August 29, 2002, I sent a letter to Bill Moore, USDA, Rural Development in Manhattan, KS concerning the proposed wastewater system for the Red Bud Lake development. The following is quoted from my letter of 2002:

"The rationale used for selecting the preferred alternate for collecting and transferring the sewage wastewater from the development around Red Bud Lake is very good and appears to be the most appropriate solution for removing the potential of lake- and ground-water contamination by seepage of water from septic tank laterals. The benefits should be a smaller nutrient supply to Red Bud Lake that could potentially cause eutrophication and growth of unwanted vegetation, prevention of the possible entrance of undesirable microorganisms into the lake by slow migration through macropores in the sediment between the lateral field and the lake, and protection of ground-water supplies in the sand and gravel aquifer underlying and downgradient of the development from contamination by nitrate and other dissolved constituents derived from the seepage from the septic system laterals."

The 2005 information on the wastewater system shows three proposed sites for treatment lagoons. These lagoons overlie the sand dune aquifer that exists west of Abilene and north of the Smoky Hill River that provides some water supplies for the area. It will be very important that the lagoons have no or a very small leakage of treated sewage to the underlying aquifer to prevent contamination of the ground water. For example, even a leakage rate of only 0.1 inch/day is equivalent to 36.5 inch/year, which is several times the natural rate of rainfall recharge to the aquifer. Thus, if the lagoon water contains a high nitrate concentration or other potential contaminants, the aquifer could potentially be contaminated by the lagoon recharge.

Let me know if you have any questions concerning this review.

Sincerely,

Donald Whittemore
Chief, Geohydrology Section

AGENCY REVIEW TRANSMITTAL FORM

Comments by ~~Dr. Lee Allison, Dir.~~
KS Geological Survey
1930 Constant Avenue
Lawrence, KS 66047

Transmittal Date
4-22-05

PROJECT TITLE: Red Bud Lake Improvement District
Wastewater Project

☐ Notification of Intent
☐ Preapplication
☐ Final Application
☐ Direct Development

CONTACT PERSON: Phillip Fishburn, Midwest Assistance Program, P.O. Box 491, Haven, KS 67543
Voice: 620-465-2780 Fax: 620-465-2781 email: pfishburn@havenks.net

This form provides notification and the opportunity for your agency to review and comment on this proposed project required by Executive Order 12372. Please complete Parts II & III as appropriate. Your prompt response will be appreciated.

RETURN TO:
Phillip Fishburn
MAP, Inc
P.O. Box 491
Haven, KS 67543
Fax: 620-465-2781

Or to: Dan Fischer (USDA- RD) fax: 785-271-2771

PART I REVIEW AGENCIES/COMMISSIONS

	Aging		Education	x	State Forester
x	Agriculture-DWR	x	Geological Survey, KS		Transportation
x	Biological Survey, KS	x	Health & Environment	x	Water Office, Kansas
x	Conservation Commission	x	Historical Society	x	Wildlife & Parks
x	Corporation Commission		Human Resources	x	Other
	Commerce		Social & Rehab. Service		Dickinson County Commission

PART II (To be completed by review agency and returned to contact person) AGENCY REVIEW COMMENTS

COMMENTS: *See attached letter of 5/16/05 for comments.*

Part III (To be completed by review agency and returned to contact person)

RECOMMENDED ACTION COMMENTS

	Clearance of the project should be granted.	☒	Clearance of the project should not be delayed but the Applicant should be (in the final application) address and clarify the questions or concerns indicated above.
	Clearance of the project should not be granted.		
	Clearance of the project should be delayed until the issues or questions have been clarified.		Request the opportunity to review final application prior to submission to the federal funding agency.
	Request a State Process Recommendation in concurrence with above comments.		

Division/Agency/Commission

Reviewer's Name: *Donald White* Date: *5/16/05*

PLEASE FAX THIS FORM TO 620-465-2781 AS SOON AS POSSIBLE. THANK-YOU



April 22, 2005

Dr. Lee Allison, Dir
Ks Geological Survey
1930 Constant Ave
Lawrence, KS 66047

Dear Sir:

The Red Bud Lake Improvement District of Dickinson County has submitted an application to USDA, Rural Development, 1303 SW First American Place, Suite 100, Topeka, KS 66604 to construct a new sewage collection system, a liftstation, and a wastewater treatment lagoon system.

The project will comply with appropriate State laws concerning the application.

Enclosed is an "Agency Review Transmittal Form" for your response back to the Midwest Assistance Program which, on behalf to the applicant, is seeking your review and completion of the this form. Please contact Phillip Fishburn, Midwest Assistance Program, P.O. Box 491, Haven, KS 67543; voice: (620) 465-2780; fax: (620) 465-2781; or email pfishburn@havenks.net if you have questions. Mark Bachamp, project engineer, may also be contacted at BG Consultants, Inc., 206 Southwind Place, Manhattan, KS 66506; telephone 785-537-7448.

USDA, Rural Development will not obligate funds for this project until after the 30 days have expired. If you choose, feel free to fax your response directly to Dan Fischer, Area RD Specialist at (785) 271-2771. Questions also can be directed to Mr. Fischer; telephone (785) 271-2724.

Thank-you for your attention to this matter. Someone from MAP or USDA may be contacting you in the near future about this request.

Sincerely,

Phillip Fishburn
Midwest Assistance Program

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Haven, KS 67543
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Enclosure

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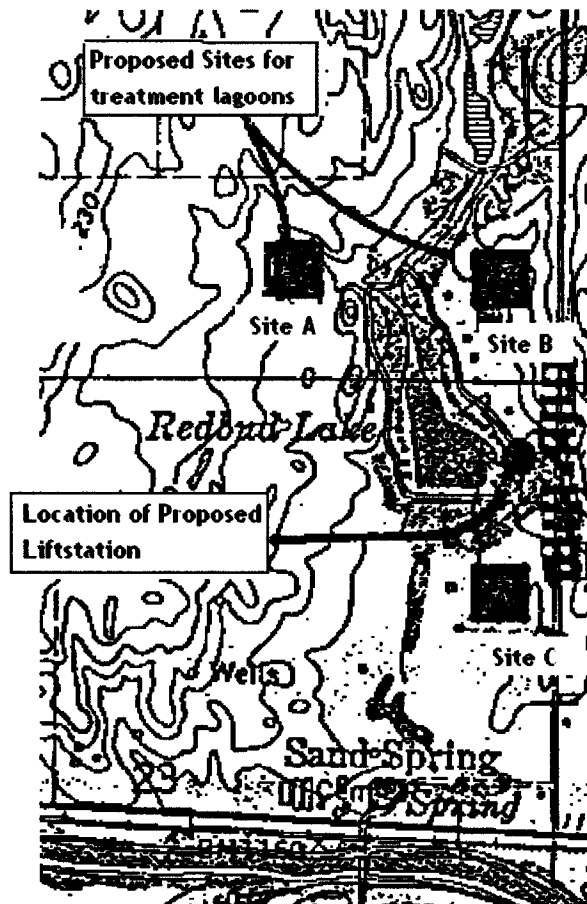
Maps for Red Bud Lake Improvement District, Dickinson County, Kansas Wastewater Project



The Red Bud Lake Improvement District is located west of Abilene, Kansas. Interstate 70 is approximately 2 miles north and $\frac{3}{4}$ mile north of the Smokey Hill River.



The homes in the district are situated around a recreational lake. The homes are adjacent to a public road. A small creek feeds into the north end of the lake. The collection system will be a small diameter system. Lines will run along the public road.



Three potential sites for the location of the treatment lagoon are identified. All sites should be considered in the review.