

**Proposed Project for Application to the Kansas Department of Health and Environment
for the Kansas Water Pollution Control Revolving Loan Fund.**

Applicant: City of Overbrook
Wastewater Collection and Treatment System Improvements

Contact Person: Marian Massoth, P.E.

Address: King and Associates Engineering
307 Montana
Holton, KS 66436

Sent to the Kansas Geological Survey for environmental review.

Agency Review Comments:

Any short-term adverse impacts during construction should be offset by the long-term benefits of the improvements to the wastewater treatment system.

Recommended Action:

- ☒ 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

Donald O. Whittemore
Reviewer's Name

Geohydrology Section, Kansas Geological Survey
Division/Agency

9/17/03
Date


Reviewer's Signature



King and Associates Engineering

Earthwork Engineering Consultant Services

307 Montana
Holton, Kansas 66436

(785) 364-4312 (W)
(785) 364-4755 (F)

August 28, 2003

Dr. Lee Allison
Kansas Geological Survey
University of Kansas
1903 Constant Avenue – Campus West
Lawrence, KS 66047

RE: Notice: Intergovernmental Review Process for the City of Overbrook, Kansas
Kansas Water Pollution Control Revolving Loan Fund
(Wastewater Collection and Treatment)

Dear Dr. Allison:

The City of Overbrook is applying for a loan from the Kansas Water Pollution Control Revolving Loan Fund for improvements to the City's wastewater collection and treatment system.

Project Information: The project is to improve the current system by rehabilitation / replacement of approximately 50 manholes, inspection / replacement of approximately 3000 feet of sewer line, and placing rock rip-rap around the interior slopes of wastewater cells no. 3 and 4.

The City's water pollution control permit requires a Biochemical Oxygen Demand of 30 mg/l daily average, a Total Suspended Solids limit of 80 mg/l and a pH limit between 6 – 9 S.U. The proposed improvements should enable the system to achieve these limits on a consistent basis.

The City's current water pollution control permit from the Kansas Department of Health and Environment lists the design capacity of the current wastewater treatment system at 1280 population equivalent (P.E.). The 2001 census was listed at 974. The current wastewater discharge fluctuates because of the large amount of infiltration/inflow (I/I) into the system. The improvements to the wastewater collection system should significantly decrease I/I into the system, allowing a longer treatment time in the lagoons and providing a cleaner wastewater discharge. This should also allow for adequate wastewater treatment if the City experiences a small amount of population growth.

The interior slopes of cell no. 3 and 4 are sloughing off due to erosion from wave action. This is diminishing the lagoon capacity and destabilizing the lagoon dikes. Rock rip rap is needed to ensure the stability of these lagoon slopes. Desludging of cells 1, 2 and 3 will be performed if needed to increase the holding capacity of the lagoon system.

Project Location: The City of Overbrook is located in the South ½ of Sections 31 and 32, T14S, R17E, and in Sections 5 and 6, T15S, R17E. The wastewater lagoon system is located in the SW ¼ of Section 5, T15S, R17E, all in Osage County. The wastewater lagoon system discharges from cell no. 4 to the west into an unnamed tributary. This tributary travels south approximately 6 miles prior to entering the headwaters of Pomona Lake.

Attached is a copy of a topographic map showing the City of Overbrook and the lagoon system located south of the City.

**Environmental
Information:**

Although it was not a requirement of the permit, in January 2002, an acute toxicity test was performed on the discharge. The results showed the wastewater discharged caused no acute toxicity to *Ceriodaphnia dubia* or to *Pimephales promelas*.

There are no new sites proposed for this project. It is for improvements to the existing systems.

We would appreciate your review of the project description and location and any comments you may have within 30 days. Please contact me at 785-665-7226 if you have any questions. Thank you for your assistance.

Sincerely,



Marian Massoth, P.E.

Attachment

C – Rod Geisler, P.E., Municipal Programs Section, KDHE
Mayor Jack Young, City of Overbrook

USGS Overbrook, Kansas, United States 01 Jul 1990

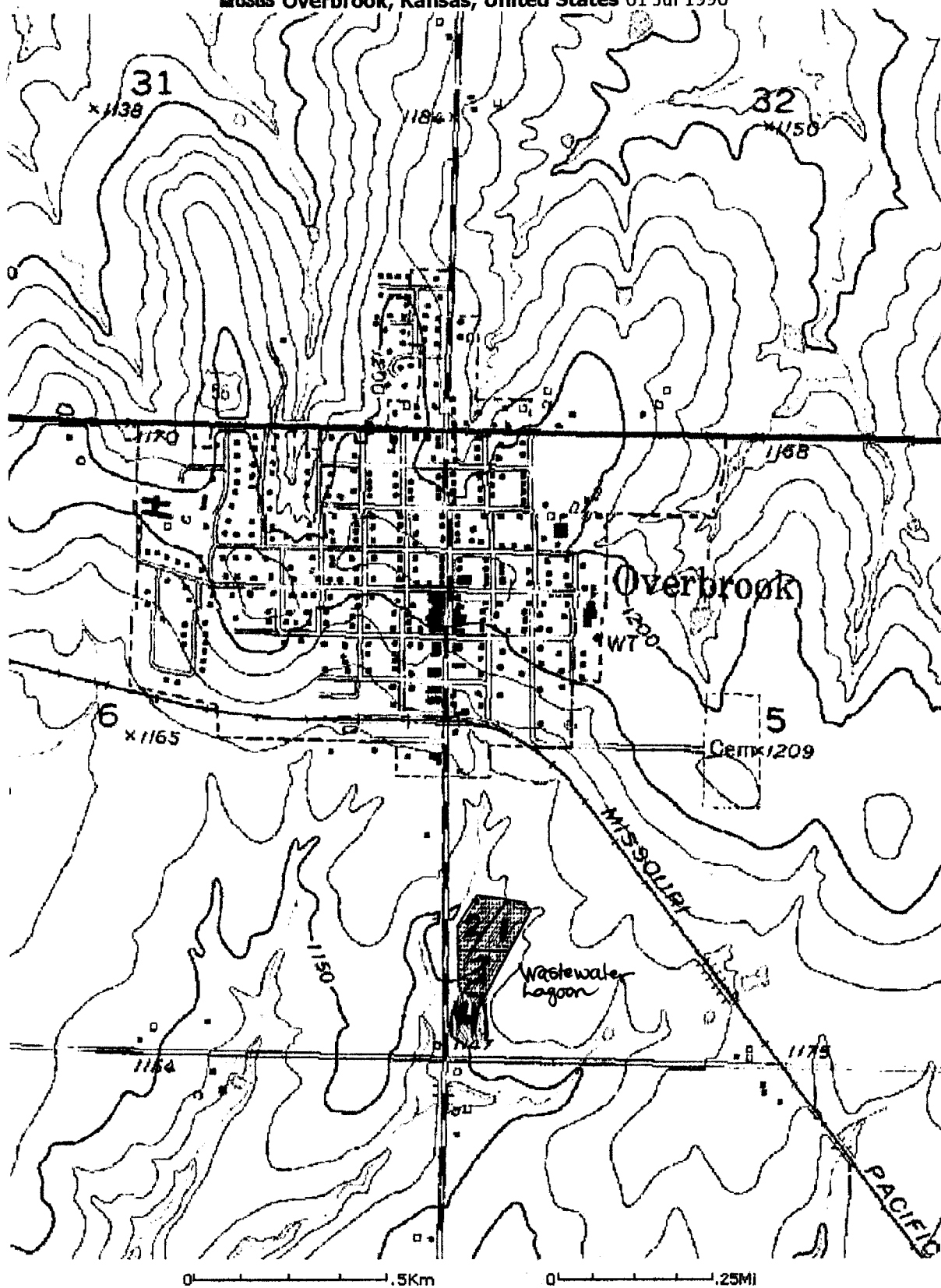
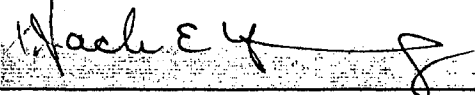


Image courtesy of the U.S. Geological Survey

Kansas Department of Health and Environment

APPLICATION FOR SRF LOAN ASSISTANCE		New	Amendment
Project Number	C 20- -	Application Type	☒
1. Legal Applicant / Recipient		2. Type of Applicant / Recipient	
Applicant Name	City of Overbrook	A. City	
Organization Unit	City	B. County	
Street / PO Box	P. O. Box 288	C. Other (Specify)	
City	Overbrook	Enter Appropriate Letter A	
County	Osage		
State / Zip code	KS 66524		
Contact Person Name	Marian Massoth		
Telephone Number	785-665-7226 or 364-4312		
3. Title of applicants project Overbrook Wastewater Improvements			
4. Type of Project Upgrade existing wastewater system & collection system.			
5. Employer Identification Number		48-0698367	
6. Area of project impact (Names of cities, counties, etc)		Overbrook	
7a. Congressional District / Applicant		D 2	
7b. Congressional District / Project		D 2	
8. Type of change		Increase dollars	\$
		Decrease dollars	\$
9. Proposed Funding			
SRF Loan 9a.	\$ 300,000	10. Project Start Date 3/04 (Estimated) 11. Project Duration 7/04 (Months) 12. Date Submitted 8/28/03 (To KDHE)	
Applicant 9b.	\$		
CDBG 9c.	\$ 300,000		
EPA 9d.	\$		
EDA 9e.	\$		
Other 9f.	\$		
Total	\$ 600,000		
13. Requested Loan Repayment Period (Must not be over 20 years)		20 yr	
14. The applicant certifies that: To the best of my knowledge and belief, data in this pre-application / application is true and correct, the document has been duly authorized by the governing body of the applicant and the applicant will comply with the attached assurances if the assistance is approved		This notice of intent / preapplication / application was made available to the state executive order 12372 process for review on: Date 8/28/03	
		15. Certifying Representative Name <u>Jack E. Young</u> Title <u>Mayor, City of Overbrook, KS</u>	
Signature 			
Mail completed application to: Kansas Department of Health and Environment Bureau of Water / Attn: Rod Geisler Municipal Programs Section, Suite 420 1000 SW Jackson Street Topeka, KS 66612-1367		If you need assistance please contact: Bill Mondl Administrative / Finance Section, Suite 420 1000 SW Jackson Street Topeka, KS 66612-1367 785-296-4049	