

Proposed Project for Application to the Kansas Department of Commerce for a grant and either to the Kansas Department of Health and Environment for the Kansas Water Pollution Control Revolving Loan Fund or to USDA Rural Development

Applicant: City of Osawatomie
Sanitary Sewer System Improvements

Contact Person: Donna Crawford

Address: Government Assistance Services
905 Joseph Drive
Lawrence, KS 66049

Sent to the Kansas Geological Survey for environmental review.

Agency Review Comments:

In general, the long-term benefits of the improvements to the sanitary sewer collection system should offset any short-term adverse environmental impacts during construction. One example would be the decrease in the amount of untreated sewage that could leak from old collection and transmission lines and discharge into drainages within the City and thereby into the Marais des Cygnes River, seep directly into the river, or contaminate ground water in the alluvial aquifer.

Recommended Action:

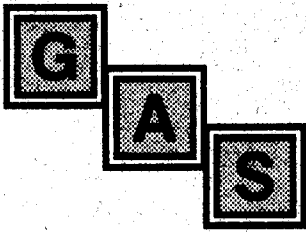
- ☒ Clearance of project should be granted
- ☐ Clearance of project should not be granted
- ☐ Clearance of project should be delayed until the issues or questions have been clarified
- ☐ Clearance of project should not be delayed, but the applicant (in the application) should address or clarify the questions or concerns indicated above

Donald Whittemore
Reviewer's Name

Geohydrology Section, Kansas Geological Survey
Division/Agency

9/19/05
Date

Donald Whittemore
Reviewer's Signature



Governmental Assistance Services

905 Joseph Drive

Lawrence, Kansas 66049

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August 17, 2005

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

RE: Environmental Review – Osawatomie, KS – Sanitary Sewer System Improvements Project

Dear Dr. Harrison:

The City of Osawatomie, Kansas is proposing to upgrade the city's entire sanitary sewer collection system. The city is located in Section 2, 9, 10 & 11, Township 18S, Range 22 East.

The city is applying for a \$400,000 grant through the Kansas Department of Commerce and either KDHE or Rural Development for \$5,049,035.65 for a total project of \$5,449,035.65.

Please submit all comments to Governmental Assistance Services, 905 Joseph Dr., Lawrence, KS 66049.

If you have questions regarding the project please contact Mark Bachamp, B. G. Consultants at 785-537-7448 ext. 113, or Brian Kingsley, B. G. Consultants at 785-749-4474.

Sincerely,

Donna J. Crawford
Project Coordinator

Enc/ Estimate of Costs
Topo Map
Project Map

4.8 ENTIRE PROJECT

The final opinion of probable cost was completed for combining all of the phase 1, phase 2, and phase 3 improvements into one project. The cost for the entire project can be seen in Table 4-4 below.

**City of Osawatomie, Kansas
Sanitary Sewer Analysis
Opinion of Probable Cost
Total of the 3 Phases
Revised August 10, 2005
BG Project # 05-164L**

NO.	ITEM	ESTIMATED QUANTITY	QUANTITY UNITS	UNIT PRICE	TOTAL PRICE
1	Mobilization	Lump Sum		\$45,000.00	\$45,000.00
2	Clearing and Grubbing	Lump Sum		\$6,000.00	\$6,000.00
3	8" Sewer Line	27,143	LF	\$50.00	\$1,357,160.00
4	10" Sewer Line	22	LF	\$45.00	\$990.00
5	12" Sewer Line	50	LF	\$50.00	\$2,500.00
6	15" Sewer Line	35	LF	\$55.00	\$1,925.00
7	Sewer Line Rehabilitation (CIPP)	21,686	LF	\$30.00	\$650,589.00
8	Sewer Lateral Tees	574	EA	\$125.00	\$71,750.00
9	Standard Manhole	6	EA	\$3,000.00	\$18,000.00
10	Extra Depth of Manhole	45	VF	\$125.00	\$5,587.50
12	Reseal Precast Joints (per Manhole)	17	EA	\$750.00	\$12,750.00
11	Manhole Rehabilitation	165	VF	\$250.00	\$41,225.00
13	Form Manhole Invert	15	EA	\$300.00	\$4,500.00
14	Reset Manhole Ring and Lid	2	EA	\$300.00	\$600.00
15	Reset Manhole Riser	2	EA	\$300.00	\$600.00
16	Flowable Fill	9,413	C.Y.	\$50.00	\$470,643.15
17	Remove & Replace Asphalt Surfacing	6,377	S.Y.	\$85.00	\$542,045.00
18	Remove & Replace Gravel Surfacing	10,416	S.Y.	\$40.00	\$416,640.00
19	Remove & Replace Lawn (Type B)	4,402	S.Y.	\$5.00	\$22,010.00
20	Add Sanitary Sewer Lift Station	Lump Sum		\$125,000.00	\$125,000.00
21	Seeding	Lump Sum		\$15,000.00	\$15,000.00
Subtotal					\$3,810,514.65
Construction Cost					\$3,810,514.65
10% Construction Contingency					\$381,051.00
Total Construction Cost					\$4,191,565.65
Contingency, Design, Const. Adm. Legal, Financing, etc.					\$1,257,470.00
Opinion of Probable Cost					\$5,449,035.65

Table 4-4 Total Project Improvements

Osawatomie Sanit

Proposed Im



LEGEND

- | | |
|-----------------------|--|
| ○ Existing Manhole | ● Manhole Replacement |
| ⊙ Flushbox Manhole | ○ Manhole Rehab |
| — Existing Sewer Line | — Sewer Needs to be Rehabilitated |
| — Existing Force Main | — Sewer Needs to be Replaced |
| | — Sewer Needs Partial Rehab and Replacment |

Primary Sewer Study

Improvements



1000' 0 1000' 2000'

Project # 05-164L
Date 8/10/2005

BG CONSULTANTS, INC.
ENGINEERS-ARCHITECTS-SURVEYORS
LAWRENCE, KANSAS HUTCHINSON, KANSAS
MANHATTAN, KANSAS EMPORIA, KANSAS





