

September 27, 2007

Lori Thielen
North Central Regional Planning Commission
109 N. Mill St., P.O. Box 565
Beloit, Kansas 67420

Re: Kansas Public Water Supply Loan Fund - Wilson, KS

Dear Ms. Thielen:

The Kansas Geological Survey (KGS) has received North Central Regional Planning Commission (NCRPC) August 7, 2007, request for environmental comments. The City of Wilson is submitting an application to the Kansas Department of Health and Environment for a loan from the Kansas Public Water Supply Loan Fund. The loan will fund the replacement of the water transmission line from the City's well field to the distribution system, as well as, the 23rd and 27th Street distribution lines.

A review of regional geologic information along with the project summary, cost estimate, USGS topographic, and site maps provided by NCRPC indicates that there are no unduly adverse geologic conditions that should affect this project and, for the purposes of the loan application, clearance of the project should be granted. A completed agency review form is enclosed.

This letter is an assessment based on the regional geologic conditions available at the KGS at the time of writing and cannot be used in substitute of a detailed site characterization. Other geologic conditions, not discussed herein, or for which the KGS has no knowledge, may affect the viability or safe operation of this facility or property. It is the responsibility of the applicant to provide any necessary characterization, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Sincerely,



Shane Lyle, RG
Geology Extension Coordinator

Enclosures

cc: Dan Suchy, KGS Data Resources Library

The following form may be used by the Review Agency/Commission for comments in response to the request for clearance from the proposed Public Water Supply Loan Fund Project.

☐ Army Corps of Engineers
☐ Kansas Biological Survey
☐ State Conservation Commission
☐ Kansas Corporation Commission
☐ Division of Water Resources/Kansas Department of Agriculture
☒ Kansas Geological Survey
☐ Kansas State Historical Society, State Historic Preservation Office
☐ Kansas Water Office
☐ Kansas Department of Wildlife and Parks
☐ US Dept. of Agriculture - Natural Resources Conservation Service
☐ Kansas Department of Health and Environment
☐ US Department of the Interior - Fish and Wildlife Service

Agency Review Comments: (to be completed by reviewing agency and returned to applicant contact person at name and address shown below)

Comments:

see letter

Recommended Action: (to be completed by the reviewing agency and returned to applicant contact person at name and address shown below.)

☒ 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.

[Signature]

Reviewer's Name

KGS

Division/Agency/Commission

9-27-07

Date

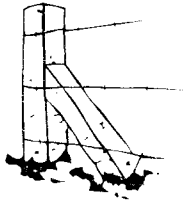
Project Title: Public Water Supply Loan Fund Application

Applicant: City of Wilson

Contact Person: Lori Thielen, North Central Reg. Planning Commission (Project Planners/Administrators)

Address: 109 N. Mill, P.O. Box 565

City, State: Beloit, KS Zip: 67420 Phone: 785-738-2218



North Central Regional Planning Commission

109 N. Mill St., P.O. Box 565 • Beloit, Kansas 67420 • (785) 738-2218

August 7, 2007

Kansas Geological Survey
University of Kansas
1930 Constant Ave., Campus West
Lawrence, Kansas 66047

Re: City of Wilson Environmental Review
Kansas Public Water Supply Loan Fund
KPWSLF Project No. 2519

Dear Kansas Geological Survey:

The City of Wilson is preparing an application to the Kansas Department of Health and Environment for a loan from the Kansas Public Water Supply Loan Fund for the above referenced project. Proposed is the replacement of the water transmission line from the city's wells to the connection with the distribution system and replacement of problematic distribution lines on 23rd Street and on 27th to 31st Streets. The city also anticipates applying for matching funds through the Kansas Department of Commerce Small Cities Community Development Block Grant program.

We would appreciate your review of the project description and location, and any comments you may have, within 30 days (*on or before September 6, 2007*). A project review form is enclosed for your use.

Please contact me at 785-738-2218 or by e-mail at lthielen@nckcn.com with questions.

Sincerely,

Lori Thielen
Project Planner/Administrator

Enc
Copy to: City of Wilson

Proposed Project Information for Intergovernmental Review
Water Distribution System Improvements
City of Wilson, Kansas

Project Description:

The City of Wilson is a community of approximately 765 people located on old US Highway 40 in north central Ellsworth County. The city's water supply system consists of two independently operating wells located just northeast of town, and the distribution system throughout Wilson. The primary problems associated with the city's existing water system include, but are not limited to, the following:

1. Frequent, reoccurring breaks on the only line conveying water from the wells to the City.
2. Numerous breaks and failures due to the age and condition of the lines located on 23rd Street from D Street to A Street.
3. Numerous breaks and failures due to the age and condition of the lines located on H Street from 27th Street to 31st Street and on 31st Street from H Street to D Street.

The proposed project includes replacing the existing 6-inch water transmission line from the wells to the connection with the distribution system with new 6-inch C900 PVC pipe. It also includes replacing those areas of the water distribution system identified with a history of having the most numerous repairs and those areas with dead-end service.

Alternatives Considered:

An alternative considered was cleaning and reusing the existing system. However, this alternative is not viable due to the loss of wall integrity of the pipe caused by years of corrosion, and would probably cause more damage than any good that could be realized. Due to the age of the lines, many would not withstand the forces of cleaning and the final result may not be satisfactory.

Location:

The well site is in the NE 1/4 of the NE 1/4 of Section 17, Township 14 South, Range 10 West. Transmission lines are as marked on the enclosed maps. Distribution line replacement will take place, in general, on 23rd Street and on 27th to 31st Streets.

Attachments:

Site maps, including a USGS map and a City of Wilson map are enclosed. Also enclosed is a copy of the engineer's opinion of probable project costs.

EWR

Table 1: Engineer's Opinion of Probable Project Costs

Item	Description	Quantity	Unit	Unit Cost	Amount
1	Transmission Line				
	Mobilization	1	LS	15000.00	\$ 15,000.00
	6" PVC Pipe	20,909	L.F	15.00	\$ 313,635.00
	New 6" Valve	5	EA	600.00	\$ 3,000.00
	Remove & Replace Aggregates	10	L.F	20.00	\$ 200.00
	Bore Under Highway	100	L.F	120.00	\$ 12,000.00
	Connect to Existing	2	LS	500.00	\$ 1,000.00
	Seeding	1	LS	4,000.00	\$ 4,000.00
	Bore Under Limestone Drive	200	L.F	90.00	\$ 18,000.00
2	Line on 23rd				
	4" PVC Pipe	1,200	L.F	14.00	\$ 16,800.00
	Bore Under Roadway	110	L.F	90.00	\$ 9,900.00
	Install New FH	2	EA	2,500.00	\$ 5,000.00
	Remove Existing FH	2	EA	400.00	\$ 800.00
	Install New 4" Valve	2	EA	500.00	\$ 1,000.00
	Bore Service Lines	400	L.F	90.00	\$ 36,000.00
	Service Lines	70	L.F	12.00	\$ 840.00
	Connect to Existing	2	EA	500.00	\$ 1,000.00
	Remove & Replace Aggregates	26	L.F	20.00	\$ 520.00
	Remove & Replace Gravel	28	L.F	20.00	\$ 560.00
	Remove & Replace Concrete	3	SY	60.00	\$ 180.00
	Seeding	1	LS	2,000.00	\$ 2,000.00
	Curb & Gutter	15	L.F	25.00	\$ 375.00
3	Line on 27th to 31st				
	6" PVC Pipe	3,950	L.F	16.00	\$ 63,200.00
	Bore Under Roadway	300	L.F	90.00	\$ 27,000.00
	Install New FH	4	EA	2,500.00	\$ 10,000.00
	Remove Existing FH	4	EA	400.00	\$ 1,600.00
	Install New 6" Valve	5	EA	600.00	\$ 3,000.00
	Bore Service Lines	300	L.F	90.00	\$ 27,000.00
	Service Lines	200	L.F	12.00	\$ 2,400.00
	Bore 2" Service Lines	200	L.F	90.00	\$ 18,000.00
	Connect to Existing	7	EA	500.00	\$ 3,500.00
	Remove & Replace Aggregates	90	L.F	20.00	\$ 1,800.00
	Remove & Replace Gravel	170	L.F	20.00	\$ 3,400.00
	Remove & Replace Chip Seal	150	LF	30.00	\$ 4,500.00
	Remove & Replace Sidewalk	15	L.F	25.00	\$ 375.00
	Remove & Replace Concrete	30	SY	60.00	\$ 1,800.00
	Seeding (Grass)	1	LS	3,000.00	\$ 3,000.00
	Curb & Gutter	20	L.F	25.00	\$ 500.00
	Subtotal Probable Construction Costs				\$ 612,885.00
	Construction Contingencies (10%)				\$ 61,288.50
	Total Probable Construction Costs				\$ 674,173.50
	Engineering, Legal, Admin., Fiscal Costs (25%)				\$ 168,543.38
	Total Probable Project Costs				\$ 842,716.88

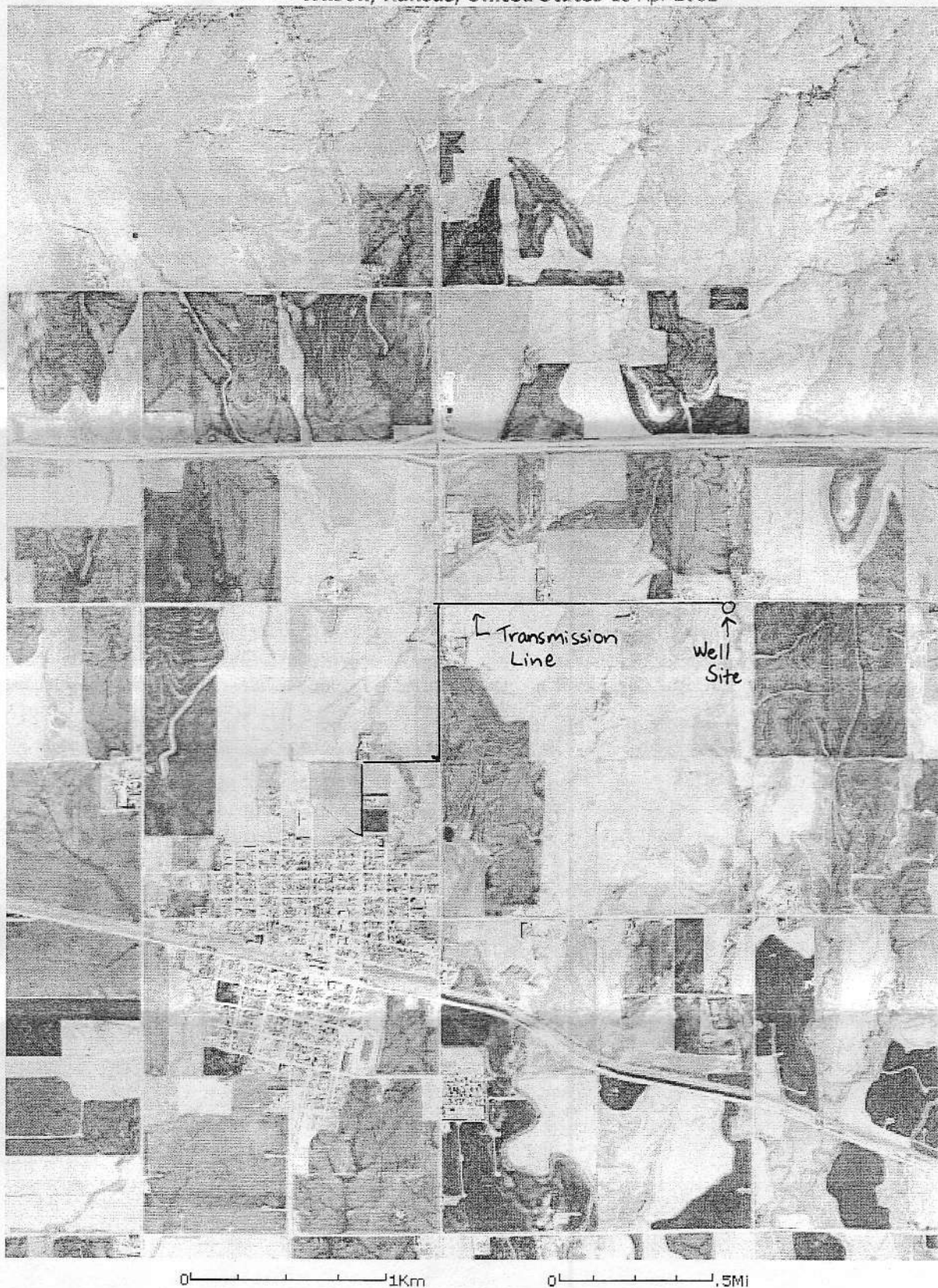
[Send To Printer](#)[Back To TerraServer](#)[Change to 11x17 Print Size](#)[Show Grid Lines](#)[Change to Landscape](#)**USGS Wilson, Kansas, United States** 15 Apr 2002

Image courtesy of the U.S. Geological Survey
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