

1930 Constant Avenue
Lawrence, KS 66047-3724
October 3, 2007

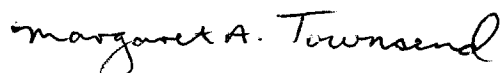
Brian Spano, I. E.
Project Engineer
Wilson and Company
P. O. Box 1640
Salina KS 67402-1640

Dear Mr. Spano:

I was asked to comment on the wastewater treatment rehabilitation plans for the City of Latham. I noticed that the area of the proposed lagoon repair is situated on the Brewer silt clay loam, Verdigris soils, and Tully silty clay loam. I do not know the structural integrity of the soils in the area for the construction of the dikes. I presume that KDHE has regulations regarding the necessary slope and compaction necessary for dike stability. Provided that those regulations are followed I feel that the project should move 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
Geohydrology Section

AGENCY REVIEW TRANSMITTAL FORM

Comments by: _____ 18 August 2007

Project Title: _____
City of Latham, Kansas
_____ Wastewater Treatment Facility Improvements
_____ KDHE Project No. xxxx

Contact Person: _____
Brian Spano, I.E.
_____ Project Engineer

Return To: Brian Spano, I.E.
Wilson & Company, Inc.
1700 East Iron Avenue
P.O. Box 1640
Salina, KS 67401

This form provides notification and the opportunity for your agency to review and comment on the proposed project. Please complete Parts I and II as appropriate. Your response by **18 August 2007** will be appreciated.

PART I - AGENCY REVIEW COMMENTS:

PART II - RECOMMENDED ACTION COMMENTS:

- ☒ Clearance of the project should be granted.
- ☐ Clearance of the project should not be granted.
- ☐ Clearance of the project should be delayed until the issues or questions have been clarified.
- ☐ Clearance of the project should not be delayed, but the applicant should (in final design and/or permit application) address and clarify the questions or concerns indicated above.
- ☐ Request the opportunity to review final design and plans.
-

Reviewer's Name: Margaret A. Townsend

Date: 10-3-07

WILSON & COMPANY

1700 East Iron Avenue
Salina, Kansas 67401
P.O. Box 1640 67402-1640
785-827-0433
785-827-5949 Fax

Albuquerque
Colorado Springs
Denver
Fort Worth
Houston
Kansas City
Lenexa
Omaha
Pasadena
Phoenix
Rio Rancho
Salina
San Bernardino
San Diego
Wilson & Company
Latin America, LLC

18 July 2007

Transmittal

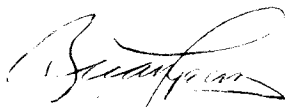
Dr. William Harrison, Interim Director
Kansas Geological Survey
University of Kansas
1930 Constant Avenue - Campus West
Lawrence KS 66047

Re: Environmental Clearance
Wastewater System Improvements
Latham, Kansas
WCI File: 07-200-517-00; Ph 01; T.C. 8220

The City of Latham is seeking funding through the Kansas Water Pollution Control Revolving Loan Fund as administered by the Kansas Department of Health and Environment (KDHE) for the rehabilitation of the existing wastewater system and lift station. Proposed improvements to the wastewater system includes: repairing the existing three (3) lagoon cells; and rehabilitating the existing lift station. An additional description of the proposed improvements is attached. A copy of the cover sheet to the City's proposed loan application is also attached for reference.

As part of the Intergovernmental Review process, we are asking for your agency to review and comment on the proposed project. An Agency Review Transmittal Form is included for your convenience. Please complete Parts I and II, as appropriate, and return the form to my attention. Your response is requested by 18 August 2008.

WILSON & COMPANY



Brian Spano, I.E.
Project Engineer

Enclosures

cc: Laura Burner, Clerk, City of Latham (w/ Enclosure)

M:\WWW\07-200-517-00\DOCS\CORRES\Environmental Clearance\07172007ltr.doc



PROJECT DESCRIPTION

City of Latham, Kansas Wastewater System Improvements

Background

The City of Latham's wastewater system is in need of improvements to operate the system in a manageable and safe manner. The plant has seen little change since it was constructed in 1978 and is highly physically deteriorated. Currently, the sanitary sewer lift station requires confined space entry and can not keep up with maximum flow demands, the latter creating sewer back-up issues in homes throughout the town. The wastewater lagoon treatment facility has experienced eroding on the dikes and interior slopes which has made the plant inoperable for maintenance and inspection.

There is a significant need to repair the "old age" of this system to allow the City to manage the facilities and to keep the operators safe from harm.

Project Description

The existing sanitary sewer lift station has problems associated with operation and safety. The I&I flow that enters the sanitary sewer lift station can not continue to back up in homes throughout town. If this I&I condition continues to exist, the lift station pumps need to be sized to handle the additional flow.

There is still the problem of confined space entry while maintaining the lift station. This problem can only be resolved with a rehabilitation of the lift station.

It appears that the rehabilitation of the existing sanitary sewer lift station is the best alternative for the City of Latham because it addresses both problems: re-sizing the pumps and eliminating confined space entry areas.

Only two alternatives were addressed with the associated problems with the wastewater lagoon treatment facility: do something or nothing. Currently, the lagoons can not be operated properly: the transfer structures can not be accessed, the gates can not be opened/closed, and the operator can not walk on portions of the lagoon dikes for fear of "falling in".

The lagoon will keep eroding until the dikes and slopes are corrected. If the lagoons are not corrected, the conditions will worsen. As time progresses without correction, the associated repair costs will continue to increase. More and more work will be necessary to correct these problems.

As such, it appears that correcting the lagoons as soon as possible would be the best short-term and long-term alternative for the City of Latham and the most cost effective as well.

Project Cost

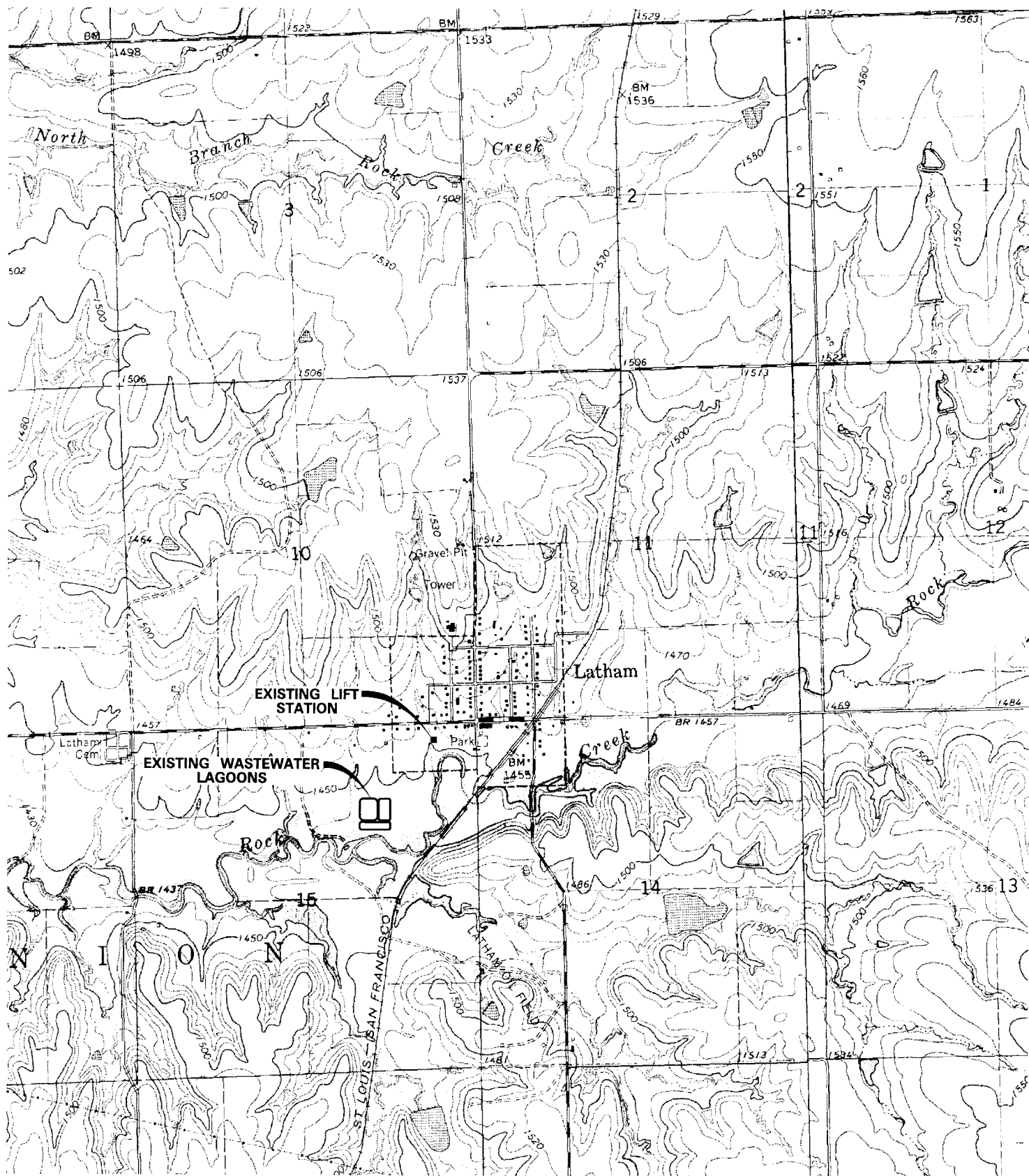
The current opinion of probable costs for the proposed improvements is:

Rehabilitate Lift Station	\$140,000
Engineering, Administrative, Legal, and Fiscal Costs	\$27,500
Lagoon Facility Improvements	\$205,500
Engineering, Administrative, Legal, and Fiscal Costs	<u>\$41,000</u>
Total Probable Project Cost	\$414,000

Project Financing

As partial financing for the proposed improvements, the City intends to apply for a low interest loan through the Kansas Water Pollution Control Revolving Loan Fund, also known as the State Revolving Fund (SRF). The Kansas Department of Health and Environment (KDHE) administers this loan program which provides wastewater improvement loans for low interest and for long terms without requiring City matching funds. The current loan rate is approximately 3 percent over a 20-year repayment period. Loan repayments begin one year after construction completion and can be generated through sewer user charges, sales tax, or general obligation bonds.

In an effort to minimize the amount of loan funding necessary, the City also intends to apply for grant funding through the, Community Development Block Grants (CDBG) as administered by the Kansas Department of Commerce and Housing. Communities seeking CDBG funding compete with each other by applying to the State for the federally funded monies. The monies are awarded to various communities based on how they meet certain criteria. The competition involves, among other things, consideration of the community's LMI (Low to Moderate Income) level and the amount of direct matching funds.



LOCATION MAP

NOT TO SCALE

PROJECT LOCATION DESCRIPTION

Township 29S, Range 7E - Sections 15



**WILSON
& COMPANY**

Kansas Department of Health and Environment

APPLICATION FOR SRF LOAN ASSISTANCE		New	Amendment
Project Number		Application Type	X
1. Legal Applicant / Recipient		2. Type of Applicant / Recipient	
Applicant Name	City of Latham, Kansas	A. City	
Organization Unit	City	B. County	
Street / PO Box	233 W. Blaine	C. Other (Specify)	
City	Latham		
County	Butler	Enter Appropriate Letter	A
State / Zip code	Kansas / 67072		
Contact Person Name	Laura Burner (Clerk)		
Telephone Number	620-965-3132		
3. Title of applicants project		City of Latham, Wastewater System Improvements	
4. Type of Project		Wastewater System Improvements - Lagoons & Lift Station	
5. Employer Identification Number			
6. Area of project impact (Names of cities, counties, etc)		City of Latham - Butler	
7a. Congressional District / Applicant		Four	
7b. Congressional District / Project		Four	
8. Type of change		Increase dollars	\$ -
		Decrease dollars	\$ -
9. Proposed Funding			
SRF Loan 9a.	\$ 207,000	10. Project Start Date	03/01/08
Applicant 9b.	\$ -		
CDBG 9c.	\$ 207,000	(Estimated)	
EPA 9d.	\$ -	11. Project Duration	12 mos.
EDA 9e.	\$ -	(Months)	
Other 9f.	\$ -	12. Date Submitted	07/25/07
Total	\$ 414,000	(To KDHE)	
13. Requested Loan Repayment Period (Must not be over 20 years)		20 yrs.	
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	
15. Certifying Representative		Signature	
Name	Laura Burner		
Title	Clerk		
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 Mond Administrative / Finance Section, Suite 420 1000 SW Jackson Street Topeka, KS 66612-1367 785-296-4049	

Lathium



Web Soil Survey 2.0
National Cooperative Soil Survey

MAP LEGEND

	Area of Interest (AOI)		Very Stony Spot
	Area of Interest (AOI)		Wet Spot
	Soils		Other
	Soil Map Units		Special Line Features
	Special Point Features		Gully
	Blowout		Short Steep Slope
	Borrow Pit		Other
	Clay Spot		Political Features
	Closed Depression		Municipalities
	Gravel Pit		Cities
	Gravelly Spot		Urban Areas
	Landfill		Water Features
	Lava Flow		Oceans
	Marsh		Streams and Canals
	Mine or Quarry		Transportation
	Miscellaneous Water		Rails
	Perennial Water		Roads
	Rock Outcrop		Interstate Highways
	Saline Spot		US Routes
	Sandy Spot		State Highways
	Severely Eroded Spot		Local Roads
	Sinkhole		Other Roads
	Slide or Slip		
	Sodic Spot		
	Spoil Area		
	Stony Spot		

MAP INFORMATION

Original soil survey map sheets were prepared at publication scale. Viewing scale and printing scale, however, may vary from the original. Please rely on the bar scale on each map sheet for proper map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 14N

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Butler County, Kansas
Survey Area Data: Version 5, Jan 10, 2007

Date(s) aerial images were photographed: 3/26/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Butler County, Kansas (KS015)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3890	Ladysmith silty clay loam, 0 to 1 percent slopes	69.0	20.2%
4535	Benfield-Labette cherty silty clay loams, 2 to 12 percent slopes	19.2	5.6%
4600	Dwight silt loam, 0 to 1 percent slopes	5.2	1.5%
4645	Florence cherty silt loam, 5 to 15 percent slopes	19.3	5.6%
4671	Irwin silty clay loam, 1 to 3 percent slopes	42.8	12.5%
4781	Tully silty clay loam, 1 to 3 percent slopes	17.6	5.2%
4783	Tully silty clay loam, 3 to 7 percent slopes	6.3	1.8%
4784	Tully silty clay loam, 3 to 7 percent slopes, eroded	6.7	2.0%
6220	Brewer silty clay loam, rarely flooded	37.6	11.0%
8302	Verdigris silt loam, occasionally flooded	100.0	29.3%
8303	Verdigris soils, frequently flooded	17.7	5.2%
Totals for Area of Interest (AOI)		341.4	100.0%