KU KANSAS GEOLOGICAL SURVEY
The University of Kansas

1930 Constant Avenue
Lawrence, KS 66047-3724
September 28, 2007

Todd J. Anderson, P. E., V. P.
Project Manager
Environmental Engineering
BWR Corporation
2335East Crawford Street
Salina, KS 67401-3713

Dear Anderson,

I was asked to comment on the wastewater treatment expansion plans for the City of Woodston. In looking at the soils map for the area I noted that there are several sandy loams near the lagoon area. I presume that the project is including evaluation of the soil in terms of leaching potential. The lagoon is also located near the stream, so I again presume that the project includes evaluation of potential flooding issues.

If these two issues are evaluated in the planning process I have no problem with the project going ahead.

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

Margaret A. Townsend
Hydrogeologist
Geohydrology Section

AGENCY REVIEW TRANSMITTAL FORM

Comments by: Kansas Geological Survey - University of Kansas
West Campus
1930 Constant Avenue
Lawrence, KS 66047-3726

Transmittal Date: July 30, 2007

PROJECT TITLE: Woodston, KS - Wastewater System Improvements
CONTACT PERSON: Todd Anderson, P.E.
785.827.3603

_____ Notification of Intent
__X__ Preapplication
_____ Final Application
_____ Direct Development

This form provide 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:
Todd Anderson, P.E.
BWR
2335 E. Crawford Street
Salina, KS 67401

PART I

REVIEW AGENCIES/COMMISSIONS

_____	Aging	_____	Education	_____	State Forester
__X__	Agriculture-DWR	__X__	Geological Survey, KS	__X__	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__	Bureau of Indian Affairs
__X__	Commerce	_____	Social & Rehab Services	__X__	U.S. Army Corps of Engineers
__X__	Northwest Planning & Development	__X__	Natural Resources Conservation	__X__	U.S. E.P.A.
__X__	U.S. Dept. of Interior, Fish & Wildlife				

PART II *(To be completed by review agency and returned to contact person)*

AGENCY REVIEW COMMENTS

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 granted.

_____ Clearance of the project should be delayed until the issues or questions have been clarified.

_____ Request a State Process Recommendation in concurrence with above comments.

_____ Clearance of the project should not be delayed but the applicant should (in the final application) address and clarify the questions or concerns indicated above.

_____ Request the opportunity to final review application prior to submission to the funding agency.

DIVISION/AGENCY/COMMISSION

Reviewer's Name: Margaret A. Townsend KGS Date: 9-28-07

July 30, 2007

BWR

Townsend

Lee Allison, Director
Kansas Geological Survey - University of Kansas
University of Kansas, West Campus
1930 Constant Avenue
Lawrence, KS 66047-3726

Re: Environmental Review
Wastewater System Improvements
City of Woodston, Kansas
BWR Project No. 2007-0517.00

To Whom It May Concern:

The City of Woodston is preparing applications to Rural Development for financial assistance to make improvements to its wastewater treatment system. The project involves modifications and improvements to the City's wastewater treatment facility to include lagoon resizing and piping modifications. All of the improvements and construction should be within the existing wastewater treatment facility area. The enclosed map provides the location of the project and facility. For more specific information please contact me at (785) 827-3603.

Please provide written comments (enclosed form and/or letter) to this office within 30 days of the date of this letter concerning any environmental issues regarding the proposed project. We would appreciate a response from your office regardless if environmental concerns exist. However, if we do not receive a response from your office, we will interpret the non-response as your office having no concerns or comments regarding the project and will proceed accordingly.

A project review form is enclosed for your use.

Sincerely,

BUCHER, WILLIS & RATLIFF CORPORATION

Todd J. Anderson

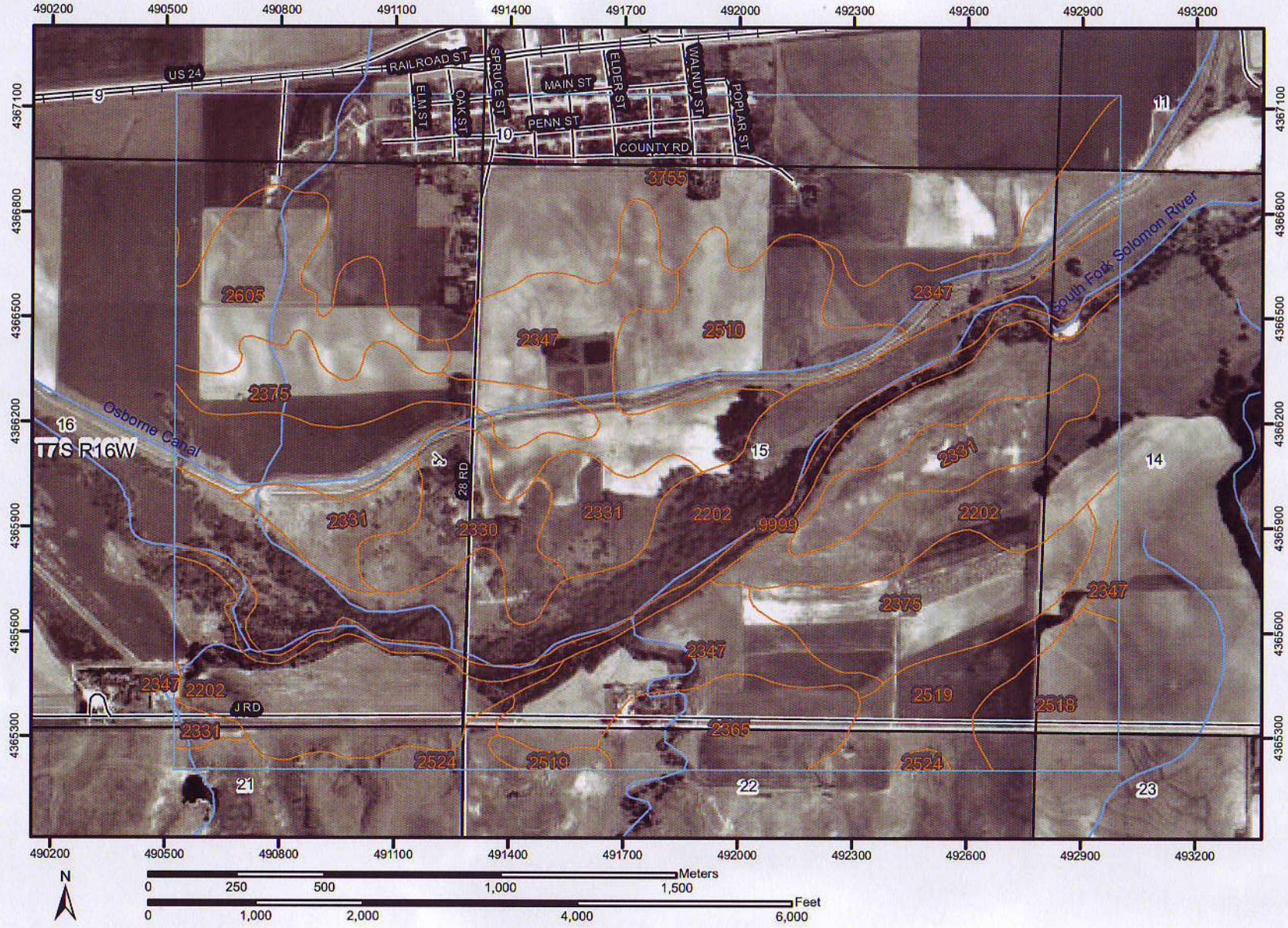
Todd J. Anderson, P.E.
V.P., Project Manager
Environmental Engineering

CRL/saa/ds

Enclosure(s)


HWY 24
CITY OF
WOODSTON
EXISTING WASTEWATER
TREATMENT SYSTEM
N
500
0
500
1000
HOR.
Scale in Feet

Soil Map–Rooks County, Kansas
(Woodston Kansas)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Units

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features
- Gully
- Short Steep Slope
- Other

Political Features

Public Land Survey
- Township and Range
- Section

Municipalities
- Cities
- Urban Areas

Water Features
- Oceans
- Streams and Canals

Transportation
- Rails

Roads
- Interstate Highways
- US Routes
- State Highways
- Local Roads
- Other Roads

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: Rooks County, Kansas
Survey Area Data: Version 5, Dec 21, 2006

Date(s) aerial images were photographed: 8/15/1991

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

Rooks County, Kansas (KS163)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2202	Munjor sandy loam, occasionally flooded	276.4	21.6%
2330	Inavale fine sand, rarely flooded	39.3	3.1%
2331	Inavale loamy fine sand, rarely flooded	84.4	6.6%
2347	McCook silt loam, rarely flooded	203.5	15.9%
2365	New Cambria silty clay loam, rarely flooded	39.8	3.1%
2375	Roxbury silt loam, rarely flooded	98.7	7.7%
2510	Anselmo fine sandy loam, 1 to 3 percent slopes	61.8	4.8%
2518	Armo loam, 1 to 3 percent slopes	34.4	2.7%
2519	Armo loam, 3 to 7 percent slopes	45.3	3.5%
2524	Armo-Bogue complex, 7 to 20 percent slopes	17.7	1.4%
2605	Eltree silt loam, 1 to 3 percent slopes	54.9	4.3%
3755	Hord silt loam, rarely flooded	295.5	23.0%
9999	Water	30.8	2.4%
Totals for Area of Interest (AOI)		1,282.3	100.0%