

Dennis Bowman, CET
Project Manager
BWR
2335 East Crawford Street
Salina, KS 67401-3713

Geohydrology Section
Kansas Geological Survey
1930 Constant Avenue
Lawrence, KS 66047
May 28, 2008

Dear Mr. Bowman:

I am replying to your letter concerning the City of Jetmore improvements to their public sanitary sewer and wastewater treatment system. The only question I have concerns whether the lagoon will be lined or not. The soils in the area range from silty loam to silty clay loam and are fairly permeable. If a leak should ever occur in the lagoon contamination of the ground water in the area could occur. I presume that KDHE requires a liner but if not I would strongly suggest it.

I think the project should occur if the above suggestion is given consideration. 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,

A handwritten signature in cursive script that reads 'Margaret A. Townsend'.

Margaret A. Townsend
Hydrogeologist

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 & Parks
☐ US Dept of Agriculture - Natural Resources Conservation Service
☐ Kansas Department of Health and Environment
☐ US Dept 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: _____

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.)

Margaret A. Townsend

Reviewer's Name

KG-S

Division/Agency/Commission

5-28-08

Date

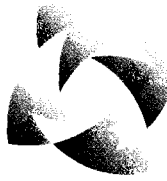
Project Title: Public Water Supply Loan Fund Application

Applicant: City of Jetmore, KS

Contact Person: Dennis Bowman, BWR

Address: 2335 E. Crawford Street

City, State: Salina, KS Zip: 67401 Phone: (785)- 827 - 3603



BWR

April 10, 2008

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

Re: Environmental Review
City of Jetmore, Kansas
Wastewater Treatment Facility Improvements

To Whom It May Concern:

The City of Jetmore, Kansas is preparing an application to the Kansas Water Pollution Control Revolving Loan Fund for financial assistance to make improvements to its public sanitary sewer and wastewater treatment system located in the E ½ , NE ¼ , NE ¼ , Section 7, Township 23S, Range 23W.

The project involves the following modifications and improvements to the City's wastewater treatment system by constructing a new wastewater treatment lagoon facility, with lagoon piping and transfer structures, and dike erosion control; replacement of wastewater pumping station; construction of a new force main, with a directional bore stream crossing; and extension of sanitary sewer piping to serve a non-sewered area in the community. All improvements will occur within City purchased property and easements.

Please provide written comments on the enclosed project review 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 by May 2, 2008, we will interpret the non-response as your office having no concerns or comments regarding the project and will proceed accordingly.

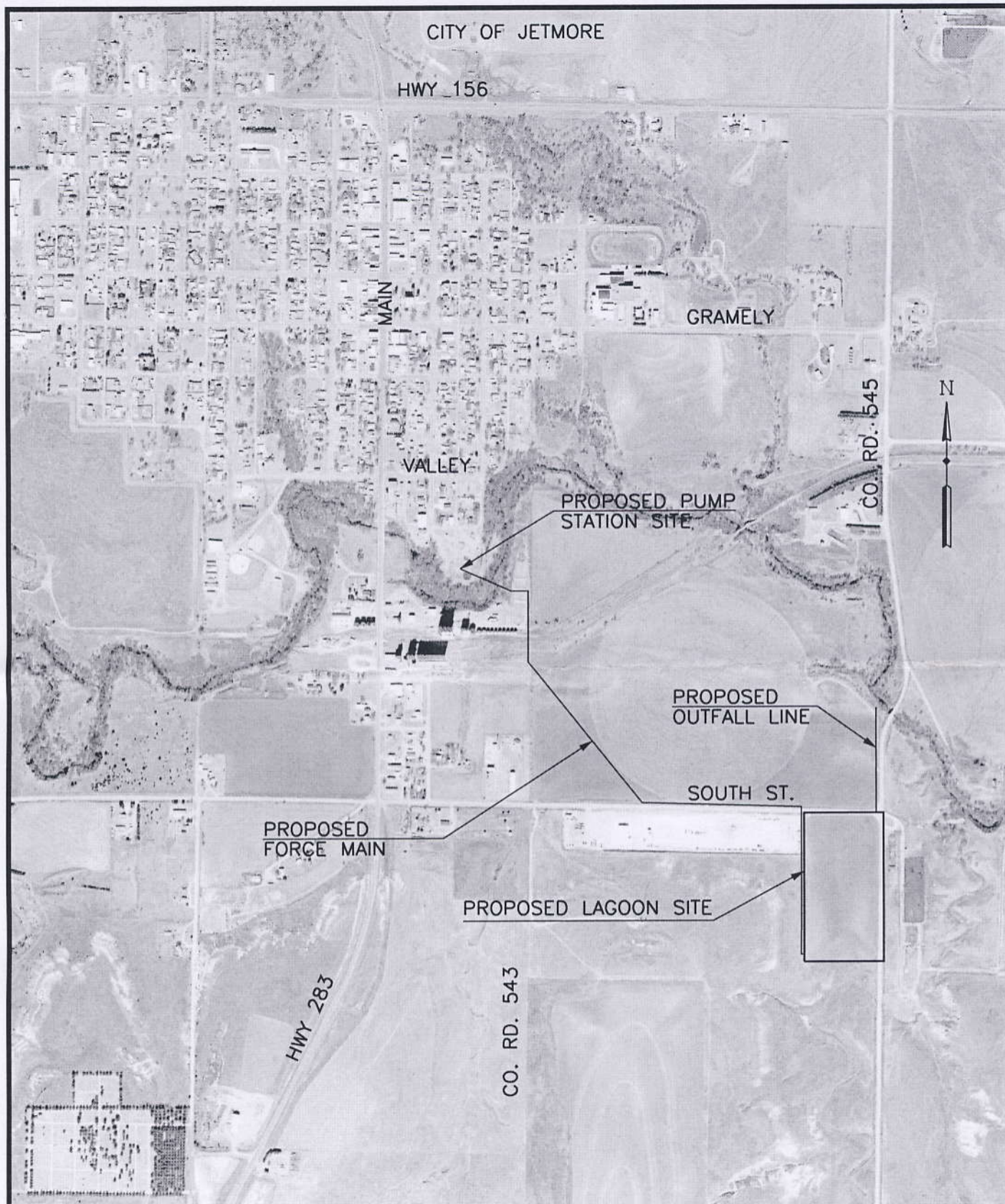
For more specific information regarding this project, see the attached documents or contact Dennis Bowman at 785-827-3603. Thank you for your attention in this matter.

Sincerely,

BUCHER, WILLIS & RATLIFF CORPORATION

Dennis Bowman, CET
Project Manager
Environmental Engineering

Enclosures



LOCATION MAP

NO SCALE



2335 E. Crawford Street | Salina, Kansas 67401-3713
P 785.827.3603 | F 785.827.3029

Soil Map—Hodgeman County, Kansas
(Jetmore 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: Hodgeman County, Kansas
Survey Area Data: Version 5, Dec 27, 2007

Date(s) aerial images were photographed: 9/29/1991

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

Hodgeman County, Kansas (KS083)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1562	Bridgeport silty clay loam, 2 to 5 percent slopes	31.5	3.4%
1643	Kim-Penden silty clay loams, 3 to 6 percent slopes, eroded	27.0	2.9%
2310	Bridgeport silt loam, rarely flooded	18.2	2.0%
2375	Roxbury silt loam, rarely flooded	130.2	14.1%
2562	Campus-Canlon complex, 3 to 30 percent slopes	33.4	3.6%
2568	Canlon soils, 5 to 40 percent slopes	11.6	1.2%
2613	Harney silt loam, 1 to 3 percent slopes	89.3	9.7%
2617	Harney silty clay loam, 3 to 7 percent slopes, eroded	25.0	2.7%
2724	Nibson-Wakeen complex, 2 to 40 percent slopes	199.0	21.5%
2757	Penden silty clay loam, 3 to 7 percent slopes	138.4	15.0%
2762	Penden-Humbarger complex, 0 to 12 percent slopes	122.3	13.2%
2953	Wakeen silt loam, 3 to 7 percent slopes	91.3	9.9%
9982	Fluvents, frequently flooded	7.5	0.8%
Totals for Area of Interest (AOI)		924.8	100.0%

