

August 20, 2008

Rose Mary Saunders
200 W. Douglas, Suite 600
Wichita, KS 67202

Re: City of Udall, Kansas – Water System Improvements

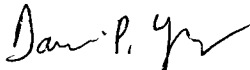
Dear Ms. Saunders,

The Kansas Geological Survey (KGS) has received your July 30, 2008 letter requesting us to review the above referenced project. The proposed project will consist of installing 8" and 6" water lines, water service reconnections, fire hydrant assemblies and appurtenances as well as constructing a new 150,000 gallon water tower.

A review of regional geologic information and project information provided by you indicates that there are no unduly adverse geologic conditions that should affect this project. However, the USDA Soil Survey of Cowley County classifies the soils underlying most of the area, including at all three of the proposed water tower sites, as Irwin silty clay loam. This soil type has a high shrink-swell potential and low strength, potentially being restrictive for some construction projects. These soil characteristics should be taken into account, especially for any foundation design. A completed agency review form is enclosed.

This letter is an assessment based on the regional geologic conditions available at the KGS 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 of the project. 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,



David P. Young,
Hydrologist

Enclosure

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 Community Development Block Grant Program for the Proposed Water System Improvements.

☐ 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
☐ U.S. Dept. of Agriculture, Natural Resources Conservation Service
☐ Kansas Department of Health & Environment
☐ U.S. Department of the Interior, Fish & Wildlife Services
☐ Cowley County Emergency Preparedness
☐ South Central Kansas Regional Planning Commission

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

Comments: please see cover letter

Recommended Action: (to be completed by 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.

D. Young Geohydrology Section/KGS 8/20/08
Reviewer's Name Division/Agency/Commission Date

Project Title: Water System Improvements

Applicant: City of Udall, Kansas

Contact Person: Rose Mary Saunders, Ranson Financial Consultants, LLC.

Address: 200 W. Douglas Avenue, Suite 600

City, State: Wichita, KS 67202-3006

Ranson
Financial Consultants, L.L.C.

July 30, 2008

Mr. William Harrison, Executive Director
Kansas Geological Survey
University of Kansas
1930 Constant Avenue, Campus West
Lawrence, KS 66047

RE: City of Udall, Kansas
Water System Improvements
CDBG Project No. 08-PF-830

Dear Mr. Harrison

The City of Udall has received a \$400,000 Community Development Block Grant from the Kansas Department of Commerce to use in conjunction with the Kansas Department of Health & Environment Public Water Supply Loan for water system improvements project.

Phase I of the proposed project will consist of installing 9,900' of 8" and 1,550' of 6" water line, 76 water service reconnections, 5 fire hydrant assemblies and appurtenances as well as constructing a new 150,000 gallon water tower to work in conjunction with the existing 60,000 gallon water tower and a new telemetry system. The new 8" and 6" lines will form the main arterial lines in the distribution system that were installed after the 1955 tornado destroyed the city. The estimated project cost for phase I is \$1,550,000.

Initially, the City was looking to erect the water tower adjacent to the existing tower in the City Park. Due to drainage ways in the park, this site is no longer viable. On the enclosed map are three locations that the City is looking at to possibly build the new water tower. Site No. 1 is located on West Third Street near the City Cemetery. The City already owns this property. Elevation at this site is 1,260'. Site No. 2 is located on the north side of Kansas Highway 55 and Hilltop. The owner of this property is willing to donate the site for the water tower and have the property annexed into the City. Elevation at this site is 1,275'. Site No. 3 is located on the north side of Kansas Highway 15 and Williams Street. The owner of this property again is willing to donate the site to the City and have the property annexed into the City. The City's Maintenance Facility and the City's Wastewater Treatment Lagoons are due east of the tower site. Elevation at this site is 1,260'.

If either Site No. 2 or No. 3 is selected by the engineer after the hydraulic studies, a directional bore under highway will be made to connect the tower with the distribution system.

Page Two
Kansas Geological Survey
July 30, 2008

The City of Udall lies in Section 32, Township 30 South, Range 3 East and Sections 4 and 5, Township 31 South Range 3 East, Cowley County, Kansas

The approximate latitude and longitude of the City is 37°23'13.20"N and 97°06'53.69" W. A map of the proposed improvements is included for your information.

No persons or households will need to be relocated due to the construction of this project. If there are any special permits or conditions that apply, please let us know. All water lines will be installed in existing public right-of-way.

We would appreciate receiving your comments by September 1, 2008 regarding this project. A Project Review Form has been enclosed for your convenience. If it is easier for you to respond by email, my email address is rsaunders@ransonfinancial.com.

If you have any questions regarding the construction, please contact Jim Ubert at Poe & Associates at (316) 685-4114 or myself at (316) 264-3400.

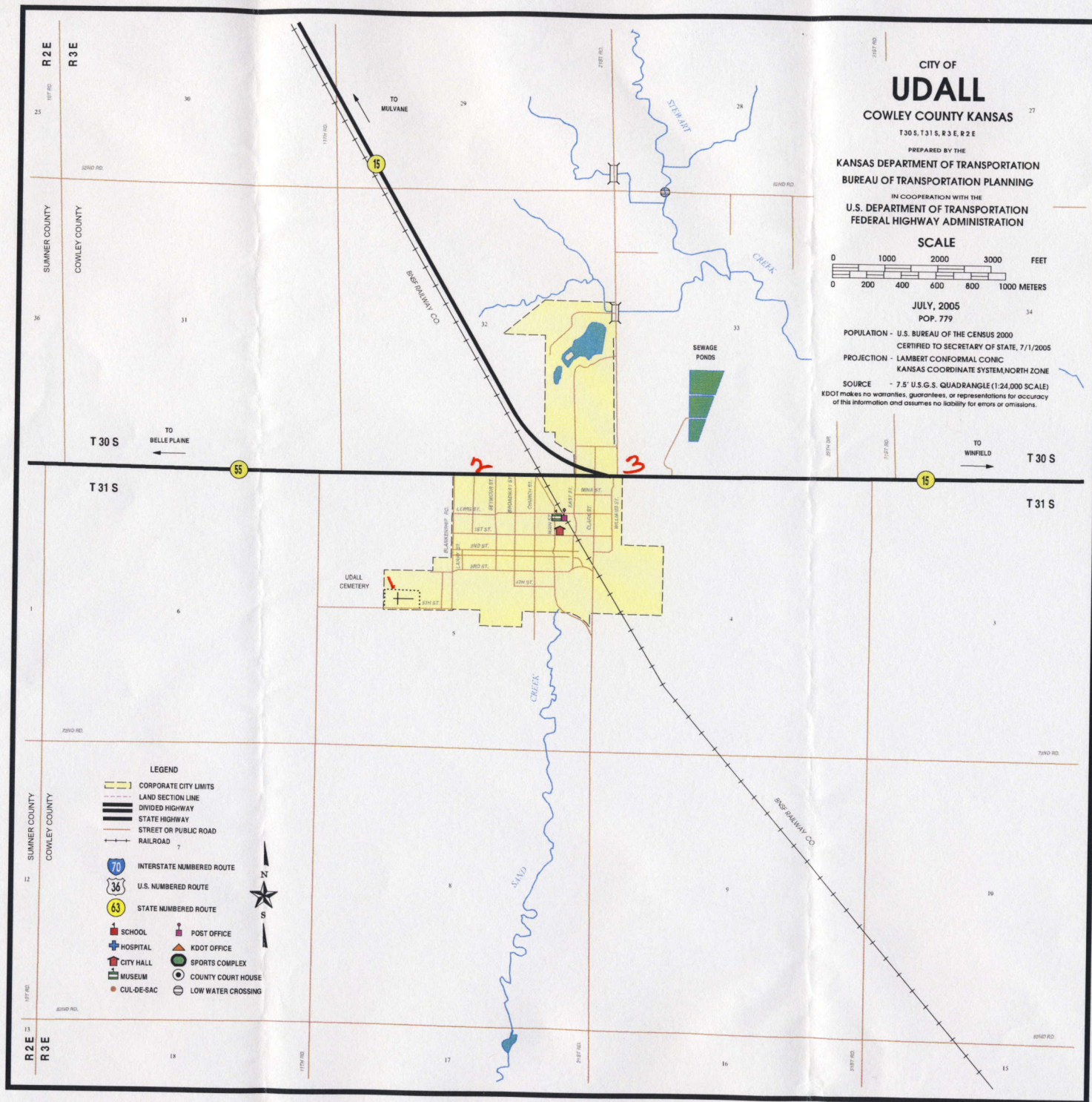
Sincerely,

Ranson Financial Consultants, LLC.

A handwritten signature in cursive script that reads "Rose Mary Saunders".

Rose Mary Saunders
Senior Consultant and
CDBG Administrator for
The City of Udall, Kansas

Enc.



Possible
 Water
 Tower
 Locations
 1) By City
 Cemetery
 2) R-55 and
 Hilltop
 3) R-45 and
 Williams
 (aka 21st
 Road or
 Cowley 151)

