

May 7, 2007

Deb Ohlde
North Central Regional Planning commission
P. O. Box 157
Clyde, Kansas 66938

Dear Ms. Ohlde,

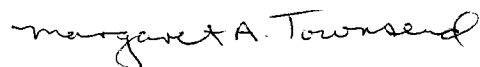
I was asked to review the City of Beattie's plans for a lagoon cell and lift construction and cell cleanout project for possible geologic impacts or concerns. I accessed the available soils data from the NRCS Web Soil Server site. According to their information the major soils in the lagoon area are the Pawnee clay loam and the Kennebec silt loam, which is occasionally flooded. A concern I have about the project is the potential of additional runoff towards the nearby stream or the lagoon if flooding occurs in the area. I presume the construction code includes a berm of some sort surrounding the lagoon area to prevent flooding into or out of the lagoon. I am not familiar with the KDHE construction code for the lagoons, so this is just a potential concern.

Another concern is the desludging of the lagoons. How and where will the sludge be disposed of? If the sludge is land applied, I presume that land application rates recommended by the NRCS will be used. If the sludge is stored at the site, I presume that some sort of cement pad and enclosure or covering will protect the sludge from erosion by rainfall or leaching of nutrients, pharmaceuticals, or bacteria. Again I am not familiar with the sludge disposal regulations from KDHE but the soil type may be prone to runoff or cracking if dried and could provide a means for contaminants to reach the stream or move downward into groundwater.

The well records for the area suggest that the water table is approximately 20 ft or so below ground level. I presume that the lagoons will have compacted clay or a liner to prevent potential leaching from the lagoons. Determination of the type of soil at depth and the compaction capability of the soil will be important.

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
Geohydrology Section

AGENCY REVIEW TRANSMITTAL FORM

Comments by: _____
 Type or Print Name and Agency Transmittal Date

PROJECT TITLE: City of Beattie _____ X Notification of Intent
 Sewer Lagoon Construction _____ Preapplication
 CONTACT PERSON: Deb Ohlde, NCRPC, Administrator _____ Final Application
 (785) 446-3775 _____ Direct Development

This form provides notification and the opportunity for your agency to review and comment on this proposed project as required by Executive Order 12372. Please complete Parts I, II & III as appropriate. Your prompt response will be appreciated.

RETURN TO: **By 5/22/07**
 Deb Ohlde
 North Central Regional Plan. Comm.
 P.O. Box 157
 Clyde, Kansas 66938

PART I

REVIEW AGENCIES/COMMISSIONS (check one or more)

_____ Aging	✓ _____ Geological Survey, KS	_____ State Forester, KS
_____ Agriculture -- DWR	_____ Health & Environment	_____ Transportation
_____ Biological Survey, KS	_____ Historical Society	_____ Water Office, KS
_____ Corporation Comm.	_____ Human Resources	_____ Wildlife & Parks
_____ Commerce	_____ Natural Resource Cons. S.	_____ Other
_____ Education	_____ Social & Rehab. Services	_____ Emergency Preparedness

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

AGENCY REVIEW COMMENTS: *See letter*

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 delayed but the Applicant should (in the final application) address or clarify the questions or concerns indicated above
_____ Clearance of the project should not be granted	_____ Request the opportunity to review the final application prior to submission to the federal funding/state funding agency.
_____ 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

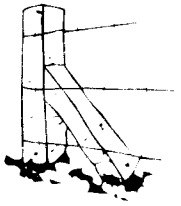
DIVISION/AGENCY/COMMISSION

Reviewer's Signature

Margaret A. Townsend

Date:

5-7-07



North Central Regional Planning Commission

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

April 20, 2007

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

Re: City of Beattie Lagoon Cell and lift Station Construction, Cell Cleanout
KWPCRF Loan Fund Project No. C20 1644 01 and
CDBG 07-PF-702

To Whom It May Concern:

The City of Beattie has been awarded CDBG funding for the above referenced project. In addition, the City is pursuing a KWPCRF loan from KDHE for the remaining cost of the project. This notification is being sent in order to seek comments regarding the environmental review for the proposed project.

The project will involve construction of a new, third lagoon cell, a lift station, and the desludging of the two existing lagoon cells. The new cell will be constructed very near the location of the existing cells, outside the city limits, as can be seen on the enclosed map. The location is in the SW 1/4 Section 21 Township T2S Range 9E in Marshall County Kansas.

The Total proposed budget for the project is \$366,325
\$296,192 Construction
\$ 29,619 Engineering design
\$ 22,214 Construction inspection
\$ 18,300 administration

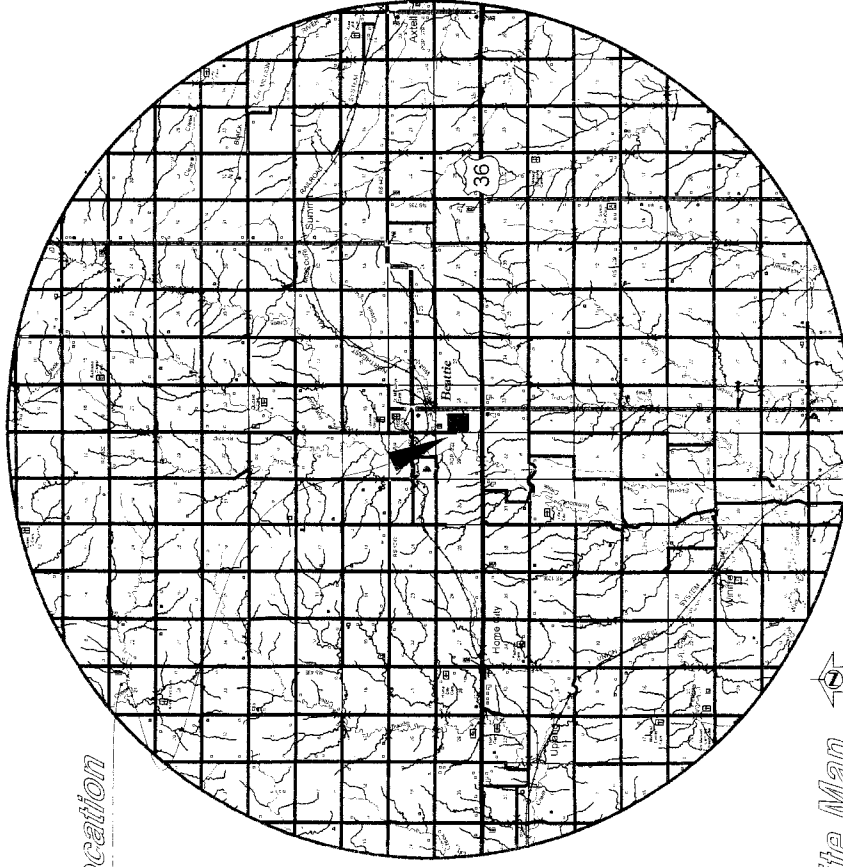
We would appreciate your review of the project description and location, and any comments you may have, within 30 days which would be May 22, 2007. A project review form is enclosed for your use. Please disregard the enclosed review/response form if you prefer to respond with a letter or with your own form. Please call me at the North Central Regional Planning Commission at 785-446-3775 or e-mail dcohlde@nckcn.com if you have any questions.

Sincerely,

Debra Carlson Ohlde
Project Administrator

City of Beattie Waste Water Treatment Facility Additional Cell Upgrade SW/4 Section 21-T2S-R9E Marshall County, Kansas

Project Location



Site Map

INDEX OF SHEETS

1. Title Sheet
2. Site Plan
3. *****
4. *****
5. *****
6. *****
7. Seeding
8. Pollution
9. *****
10. Cross Sections

CITY OF BEATTIE WASTE WATER TREATMENT FACILITY	PROJECT LOCATION & SHEET INDEX	DATE: 10/1/06 DRAWN BY: J. L. HARRIS CHECKED BY: J. L. HARRIS SCALE: 1" = 100'
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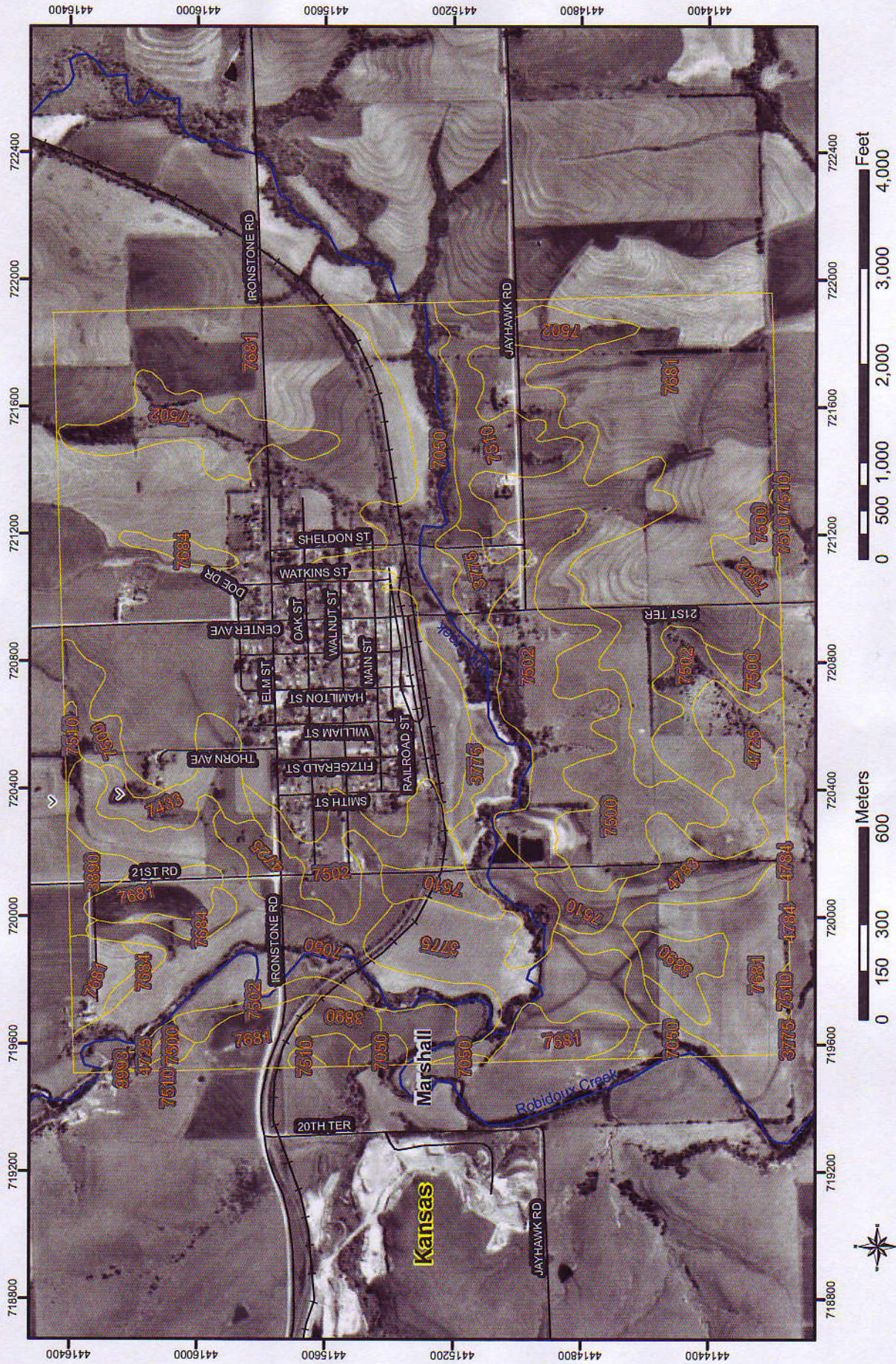
BEATTIE, KANSAS
(Marshall County)

Project Location



SOIL SURVEY OF MARSHALL COUNTY, KANSAS

Beattie, Kansas Marshall, Kansas



SOIL SURVEY OF MARSHALL COUNTY, KANSAS

Beattie, Kansas Marshall, Kansas

MAP LEGEND

	Soil Map Units
	Cities
	Detailed Counties
	Detailed States
	Interstate Highways
	Roads
	Rails
	Water
	Hydrography
	Oceans
	Escarpment, bedrock
	Escarpment, non-bedrock
	Gulley
	Levee
	Slope
	Blowout
	Borrow Pit
	Clay Spot
	Depression, closed
	Eroded Spot
	Gravel Pit
	Gravelly Spot
	Gulley
	Lava Flow
	Landfill
	Marsh or Swamp
	Miscellaneous Water
	Rock Outcrop
	Saline Spot
	Sandy Spot
	Slide or Slip
	Sinkhole
	Sodic Spot
	Spoil Area
	Stony Spot
	Very Stony Spot
	Perennial Water
	Wet Spot

MAP INFORMATION

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 14

Soil Survey Area: Marshall County, Kansas
Spatial Version of Data: 1
Soil Map Compilation Scale: 1:24000

Map comprised of aerial images photographed on these dates:
10/17/1991

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 Summary

Marshall County, Kansas

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3775	Muir silt loam, rarely flooded	73.5	5.5
3890	Ladysmith silty clay loam, 0 to 1 percent slopes	27.4	2.0
4725	Kipson-Sogn complex, 5 to 30 percent slopes	37.6	2.8
4783	Tully silty clay loam, 3 to 7 percent slopes	32.2	2.4
4784	Tully silty clay loam, 3 to 7 percent slopes, eroded	0.3	0.0
7050	Kennebec silt loam, occasionally flooded	195.1	14.5
7433	Morrill loam, 3 to 7 percent slopes	19.7	1.5
7500	Pawnee clay loam, 1 to 3 percent slopes	116.5	8.7
7502	Pawnee clay loam, 3 to 6 percent slopes	158.3	11.8
7510	Pawnee clay, 3 to 7 percent slopes, eroded	53.3	4.0
7681	Wymore silty clay loam, 1 to 3 percent slopes	616.8	45.9
7684	Wymore silty clay loam, 3 to 6 percent slopes, eroded	12.9	1.0
9993	Pits	0.2	0.0

Beattie, Kansas Marshall, Kansas2



SOIL SURVEY OF MARSHALL COUNTY, KANSAS

Beattie, Kansas Marshall, Kansas2

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Kansas WWC5 Well Viewer

Overview Map



Legend

- Single well
- ★ Multiple wells
- Yield (in gpm)
 - between 0.75 and 7.29
 - between 7.29 and 10.00
 - unknown Yield
- Township Boundary
- PLSS
- ~ Rivers and Streams
- County Boundary

