

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: Any short-term adverse impacts during construction should be offset by the long-term benefits of the improvements to the wastewater treatment system. The KDHE should assess whether some of the estimated design, phase services, and legal, fiscal, misc., and contingencies costs appear too high for this type of project.

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, by the applicant (in the application) address or clarify the questions or concerns indicated above.)

Donald W. Heltonmore
Reviewer's Name

Kansas Geological Survey 10/16/03
Division/Agency/Commission Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Harper, KWPCRF, Permit No. M-AR40-0001

Contact Person: Meredith Aldren-Cutler

Address: Grant Service Center, LLP

City, State: 2710 North Stoney Point **Zip:** Wichita, KS 67205 **Phone:** (316)-773-6019

GRANT SERVICE CENTER, LLP

September 25, 2003

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

Re: City of Harper
KDHE, Kansas Water Pollution Control Revolving Fund;
Kansas Permit No. M-AR40-0001

Dear Sir or Madam:

The City of Harper is preparing an application to the Kansas Department of Health and Environment (KDHE) for a loan from the Kansas Water Pollution Control Revolving Fund for the referenced project. The proposed action is to provide a treatment system that meets the needs of the City of Harper and which will enable the facility to meet the requirements of the current wastewater permit and the minimum standards of design established by KDHE. To further assist in your review of this proposed action, information that specifically addresses the description, cost and exact location of the project has been provided as follows:

⇒ **Site Description:** *Legal* - NW 1/4, SE 1/4, Section 6, Township 32 South, Range 6 West, Harper County, Kansas. *Evaluation* - The soils in the area are of the Chrisfield-Port-Zenda association. The soil classification at the treatment facility site is comprised of Zenda and Chrisfield complex. This soil generally consists of fine sandy loams. The Zenda complex may contain some clay and is slightly alkaline. All improvements proposed in this area will be located at the existing treatment facility site.

⇒ **Site Map:** Please refer to the site map that has been enclosed.

⇒ **Project Description:** The recommended treatment facility improvements proposed are as follows: 1. **Pump Station and Bar Screen** - Include new submersible pumps and controls, a mechanical bar screen and a stand-by generator; 2. **Pond Connecting Piping** - Allow for the first two lagoons to be operated in series (either cell 1-2 or cell 2-1) or in parallel (split between cells 1 and 2). The piping will allow any of the ponds to be taken out of service for maintenance while the remaining ponds continue in use. Additionally, the piping will be arranged so that the greatest distance possible is obtained between the pond inlet piping locations and the pond discharge piping intake. Also, a new discharge structure with multiple draw-off levels will be installed; 3. **Remove and Dispose of Sludge** - Removing and disposing of sludge to restore the storage capacity of the treatment facility to the original capacity of 37,120,000 gallons.

⇒ **Project Cost:**

1 EA	Inlet Structure	\$ 10,000.00
4 EA	Level Control Structure	\$ 70,000.00
3775 LF	16-Inch Pond Piping	\$151,000.00
20 EA	Plug Valves	\$ 80,000.00
9 EA	Manholes	\$ 27,000.00
1 LS	Seeding, Mulching, Sitework, Misc. Demolition	\$ 25,000.00
1 LS	Barscreen, Building and Appurtenances	\$ 200,000.00
1 LS	Lift Station Pumps, Wetwell and Appurtenances	\$ 225,000.00
1100 LF	8-Inch Force Main	\$ 22,000.00
	Estimated Construction Cost	\$ 810,000.00
	Engineering Report	\$ 9,890.00
	Engineering Design	\$ 94,750.00
	Construction Phase Services	\$ 120,000.00
	Legal, Fiscal, Misc., Contingencies & Contingencies	<u>\$ 215,360.00</u>
	Estimated Total Cost	\$1,250,000.00

Sludge at Current Level (11-Inches)

2,167,500 Gal.	Sludge Removal	\$ 65,025.00
2,167,500 Gal	Sludge Transportation/Disposal (More than ½ mile)	\$ 43,350.00
14,500,000 Gal	Lagoon Dewatering	<u>\$ 72,500.00</u>
	Estimated Total Cost	\$ 226,000.00
	TOTAL PROJECT COSTS	\$1,476,000.00

We would appreciate your review of the project description and location, and any comments you may have, within 30 days. A project review form is enclosed for your use.

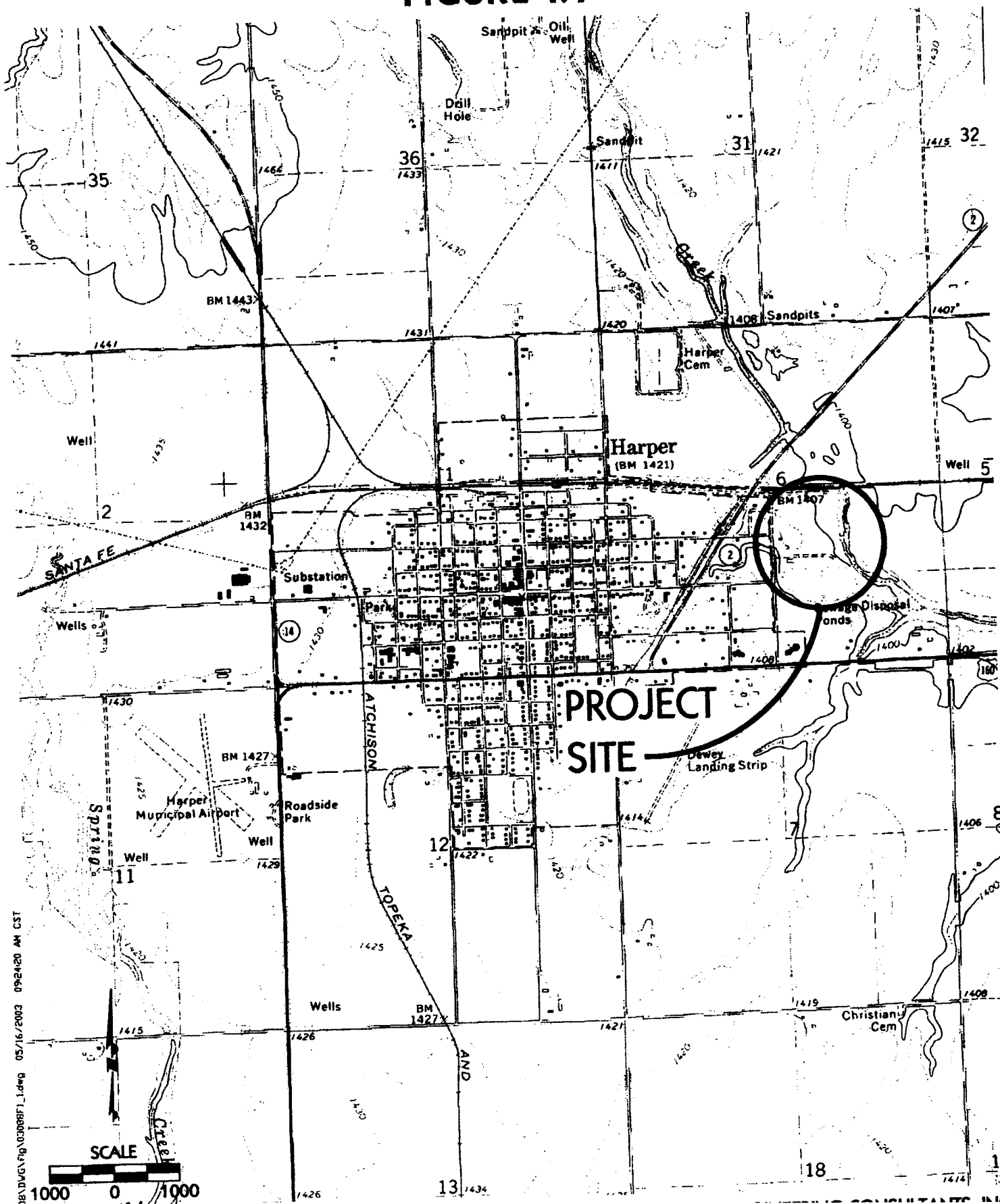
Please call Grant Service Center, LLP at 316-773-6019 if you have any questions and/or need further information.

Thank you for your time and attention in this matter.

Sincerely,


Meredith Aldren-Cutler

City of Harper, Kansas
Planning Area Map
FIGURE 1.1



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