

The following form may be used by Review Agency/Commissions for comments in response to the request for clearance for the proposed Lime Residual Monofill Site project.

_____	Army Corps of Engineers
_____	Kansas Biological Survey
_____	Kansas State Conservation Commission
_____	Kansas Corporation Commission
_____	Division of Water Resources/Kansas Department of Agriculture
☒	Kansas Geological Survey
_____	Kansas State Historical Society, Cultural Resources
_____	Kansas Water Office
_____	Kansas Department of Wildlife & Parks

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

Comments:

The long-term benefits of properly handling and disposing of the lime residual should offset the short-term impacts of the site

Recommended Action: (to be completed by reviewing agency and returned to applicant contact person at name and address shown below) *operation every other year.*

☒	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) address or clarify the questions or concerns indicated above

<i>Donald Whittemore</i>	<i>Kansas Geol. Survey</i>	<i>10/15/03</i>
Review's Name	Division/Agency/Commission	Date

Project Title: Lime Residual Monofill Site Permit Application

Applicant:	<u>Leavenworth Water Department</u>		
Contact Person:	<u>Don Murphy, Manager</u>		
	<u>PO Box 576</u>		
Address:	<u>601 Cherokee</u>		
City, State:	<u>Leavenworth, KS</u>	Zip: <u>66048</u>	Phone: <u>(913) 682-1513</u>

Enclosure 3

LEAVENWORTH WATER DEPARTMENT

**P.O. Box 576 • 601 Cherokee Street
Leavenworth, Kansas 66048-0576
Ph: (913) 682-1513 • Fax: (913) 682-0627**

September 15, 2003

Kansas Geological Survey
Attn: Donald Whittemore
University of Kansas
1930 Constant Ave. - Campus West
Lawrence, KS 66047

RE: Permit Application No. 853 for Lime Residual Monofill (Industrial Landfill)

Dear Mr. Whittemore:

The Leavenworth Water Department is preparing a permit application to the Kansas Department of Health and Environment for a lime residual monofill site in Sec 19, T 9S, R 23E, Leavenworth County. We would appreciate your review of the project description and location (Enclosures 1 and 2). A project review form is included for your use (Enclosure 3).

The purpose of this project is to have an approved site and backup method for the disposal of lime residuals from our South Drinking Water Treatment Plant. Lime is used in the water treatment process to soften the water and to enhance its cleanliness and quality. The primary and preferred disposal method is land application on agricultural fields and pastures.

Please call Joe McAfee, project engineer, at McAfee Engineers (913-782-7744) or Don Murphy at the Leavenworth Water Department (913-682-1513) if you have any questions. Thank you for your assistance with this environmental review process.

Sincerely,



Don Murphy
Manager

3 Enclosures

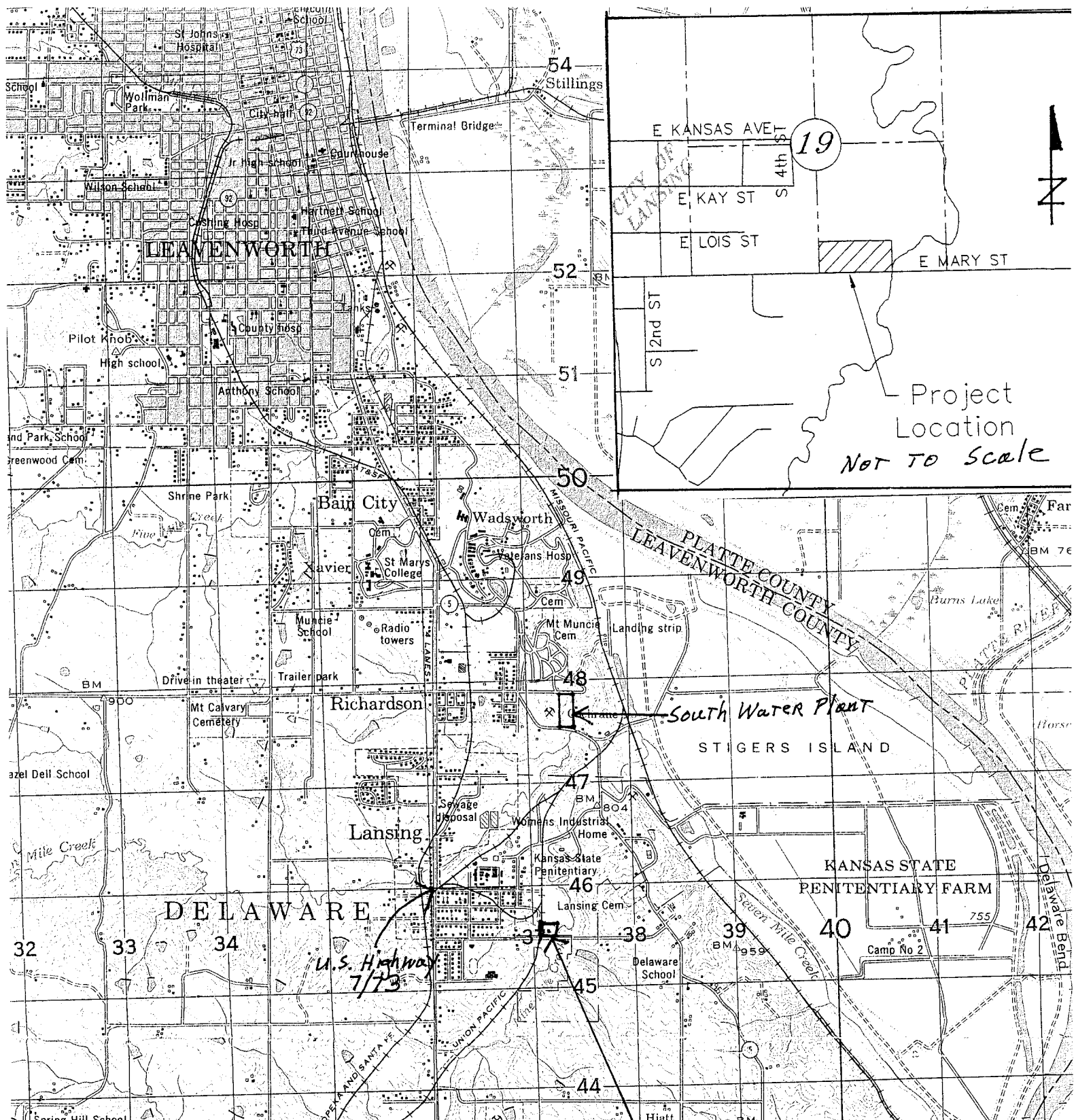
Drinking Water Treatment Plant
Lime Residual Disposal Site Project Description

Site Location: The proposed site of the Leavenworth Water Department (LWD) Lime Monofill is location in the Southeast 1/4 of Section 19, Township 9 South, Range 23 East in Leavenworth County, Kansas. The Kansas Penitentiary/Lansing Correctional Facility currently manages the land as a pasture-rangeland area for cattle. The land is owned by the Board of Directors of the Kansas State Penitentiary. LWD is entering into a joint agreement with the Penitentiary to utilize a 5.75-acre portion of their 385-arce tract for the proposed lime monofill site. The area to be utilized is in the southwest corner of the state property. (See site map, Enclosure 2)

Geographic Conditions: The 5.75-acre tract to be utilized for the lime monofill is bounded on the south by East Mary Street, on the west by the property line, and on the east by Nine Mile Creek, and on the north by a tributary of Nine Mile Creek. The site slopes to the north and northeast with average grades ranging from 5-7%. The site consists of Knox Silty Clay Loam soil type. At the boundary of the proposed site, the soil composition changes to Bremer Silty Clay Loam. The soil boundary played a partial role, along with floodplain location, in determining the limits of the monofill site.

General Description of Improvements:

- The project consists of excavating 14 trenches for disposition of lime residual utilized in the water treatment process by Leavenworth Water Department. Each trench has a base width of 25 feet, a fill depth of 9 feet, and lengths vary from 130 feet to 315 feet. A 2' minimum cover will be placed on each trench with site soils after the trench is filled with the appropriate amount of lime residuals.
- The monofill site will be operated for only a one to two month period when this method is used to dispose of lime residuals. The expected frequency is every other year at the most. Typically, the excavation and disposal process will occur in a designated two to four week period, followed immediately by a two to four week restoration and reseeding period. Each monofill location (the individual trenches) will be restored to its original appearance, as much as possible, in accordance with the KDHE approved closure plan.



Scale-1:50,000

Proposed Monofill Site Location
Leavenworth Water Dept
SW 1/4, Section 19-9-23