

KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
phone 785-864-3965
fax 785-864-5317

August 1, 2005

Ms. Olivia Mills
Burns & McDonald Engineering Co.
9400 Ward Parkway
Kansas City, Missouri 64114

RE: Permit Application for Municipal Solid Waste Landfill Expansion for Allen County, Kansas

Dear Ms. Mills:

I have received your request for comment by the Kansas Geological Survey (KGS) on a permit application for a municipal solid waste landfill expansion in Allen County. The landfill expansion will be located in NE ¼ of S2 T25S R19E, southeast of La Harpe, Kansas.

I was provided a location map showing the local topography, the landfill expansion site, and the 100-year floodplain. In addition, I examined the USGS La Harpe 7½-minute topographic map, a 2002 orthophotograph, a report on the geology and ground water of Allen County (Miller, 1969, KGS Bulletin 195), and a report on caves of Kansas (Young and Beard, 1993, KGS Educational Series 9). The geologic map indicates that the landfill site is located in the Iola Limestone. The notes on your location map and the orthophotograph indicate that the landfill expansion will be in a quarry. The Iola limestone is a bedrock aquifer in Allen County and contains open joints. Figure 9 (page 24 of KGS Bulletin 195) shows an example of well developed joints in the Iola Limestone located southwest of the proposed landfill expansion. No caves are reported in the Iola Limestone (KGS Educational Series 9); however, the open joints may indicate potential karst issues. The site is relatively flat and intermittent streams are observed at the expansion site.

- The primary concern for the landfill expansion site is potential ground-water and surface water contamination. Walls and floors of quarries may contain open joints that could allow leachate to enter the Iola Limestone aquifer and migrate to surface streams.
- Although no karst issues are reported for this site, the open joints in the Iola Limestone indicated that karst issues could potentially develop at this site.
- The Kansas Geological Survey has no knowledge of landslide issues affecting this application.

The above discussion represents the information that the Kansas Geological Survey has on this proposed landfill site. Other geologic conditions, not discussed here, might affect the stability or safe operation of this landfill. The information provided in this letter is from regional (countywide and statewide) studies and should not be used as a substitute for detailed site investigations by a licensed geologist or engineer. It is the responsibility of the applicant to produce the detailed site evaluation.

If you have any questions about my comments, feel free to contact me at (785) 864-2194 or ohlmac@kgs.ku.edu.

Sincerely,

A handwritten signature in black ink, appearing to be 'G. C. Ohlmacher', written in a cursive style.

Gregory C. Ohlmacher P.G.



July 19, 2005

Mr. Greg Ohlmacher
Kansas Geological Survey
1930 Constant Avenue
University of Kansas, West Campus
Lawrence, KS 66047-3726

Notification and Comment Request
Proposed Municipal Solid Waste (MSW) Landfill Expansion
Allen County, Kansas MSW Landfill, Permit Number 101
Burns & McDonnell Project No. 37214

Dear Mr. Ohlmacher:

On behalf of Allen County, Kansas, Burns & McDonnell Engineering Company, Inc. submits this Notification and Comment Request for the proposed Allen County Solid Waste Landfill horizontal expansion. The landfill is located at 1170 2800 Street, southeast of La Harpe, Kansas, approximately 0.5 miles south of Highway 54, in the northeast corner of Section 2, Township 25 South, Range 19 East. Allen County currently operates a municipal solid waste (MSW) landfill and an industrial rubber and tire monofill. The existing landfill is comprised of a total of 37 acres. The proposed MSW expansion would encompass approximately 49 acres. A figure illustrating the proposed expansion area is included as Attachment 1.

In order to complete the permit application, Burns & McDonnell hereby requests a written response from the Kansas Geological Survey with respect to any potential issues your agency may have with the above-referenced landfill expansion. Please send your comment letter to the undersigned at the address listed below.

We would appreciate a reply as soon as possible in order to complete the permit application in a timely manner. Please contact the undersigned at (816) 822-4396 if you have any questions or comments. Thank you for your time and consideration.

Sincerely,

Olivia Mills
Project Engineer

Burns & McDonnell Engineering Co.
9400 Ward Parkway
Kansas City, Missouri 64114



Mr. Greg Ohlmacher
7/19/2005
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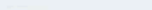
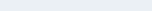
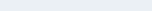
Attachments: As Noted

Cc: Mr. Darryl Lutz, P.E., Butler County Public Works Director (With Attachments)

UNNAMED
TRIBUTARY

ELM CREEK

LEGEND

-  BOUNDARY OF EXISTING DISPOSAL UNITS
-  BOUNDARY OF PROPOSED EXPANSION
-  APPROXIMATE PROPERTY BOUNDARY
-  LIMITS OF 100-YEAR FLOOD ZONE

NOTES

1. ALL BOUNDARIES SHOWN ARE APPROXIMATE.
2. ZONE A REPRESENTS THE AREA OF A 100-YEAR FLOODPLAIN. ZONE DESTINATION AREA APPROXIMATED, AND BASED ON A REFERENCE DRAWING PROVIDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, PANEL 105 OF 225 MAP NUMBER 20001C0105 D. FLOOD INSURANCE RATE MAP EFFECTIVE DATE: SEPTEMBER 28, 1990.



600' 0' 600' 1200'



SCALE IN FEET

**Burns &
McDonnell**
SINCE 1898

Attachment 1

**PROPOSED LANDFILL
EXPANSION
ALLEN COUNTY LANDFILL
ALLEN COUNTY, KANSAS**