

March 2, 2009

Mr. Shawn Turner  
TranSystems  
115 S. Sixth Street  
Independence, KS 67301

Dear Mr. Turner,

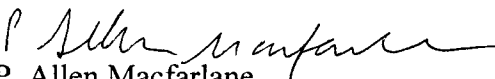
I have reviewed for stability the proposed construction and demolition landfill project you are proposing to construct in Section 16, T. 35 S., R. 24 E. in a portion of government lots 3 and 4 in Cherokee County. Based on the map you attached to your request, the presence of nearby tailings piles at the surface indicates that there could be abandoned underground mine workings beneath the site that might impact the stability of the proposed landfill.

Additionally, these mine workings if present are situated in the strata that form the Springfield Plateau aquifer, which is used as a source of shallow ground water in Cherokee County. Leakage of leachate from or collapse of the overlying strata beneath the landfill would release contaminants into this shallow aquifer. Even though many of the abandoned workings are filled with non-potable ground water, contamination from the landfill could further exacerbate water quality problems in that part of the county.

The above discussion represents our best assessment based on the information that the Kansas Geological Survey has about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of this facility or property. The information provided in this letter is from regional or countywide studies and should not be used as a substitute for detailed site characterization by a licensed geologist or engineer. It is the responsibility of the applicant to provide any required site characterizations.

If you have questions please do not hesitate to contact me at my office (785 – 864-2068).

Sincerely yours,

  
P. Allen Macfarlane

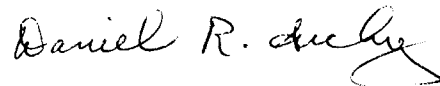
March 3, 2009

Shawn Turner, P.E.  
TranSystems  
115 S. Sixth Street  
Suite B  
Independence, KS 67301

Mr. Turner:

In supplement to Al Macfarlane's reply, I wish to draw your attention to the enclosed copy of a portion of a map that shows underground mines in the area of interest. The map clearly shows underground mine workings in the immediate vicinity of the proposed C & D landfill. This map is from Kansas Geological Survey Open -File Report 83-2, which is available online at <http://www.kgs.ku.edu/Publications/OFR/1983/83-2/index.html>. The map itself can be found at [http://www.kgs.ku.edu/Publications/OFR/1983/83-2/gifs/plate\\_1B.pdf](http://www.kgs.ku.edu/Publications/OFR/1983/83-2/gifs/plate_1B.pdf).

Sincerely,



Daniel R. Suchy, Ph.D.

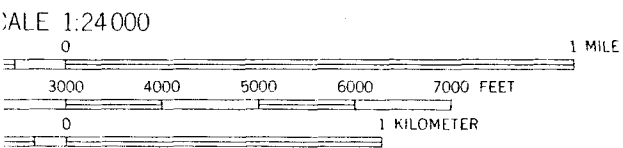
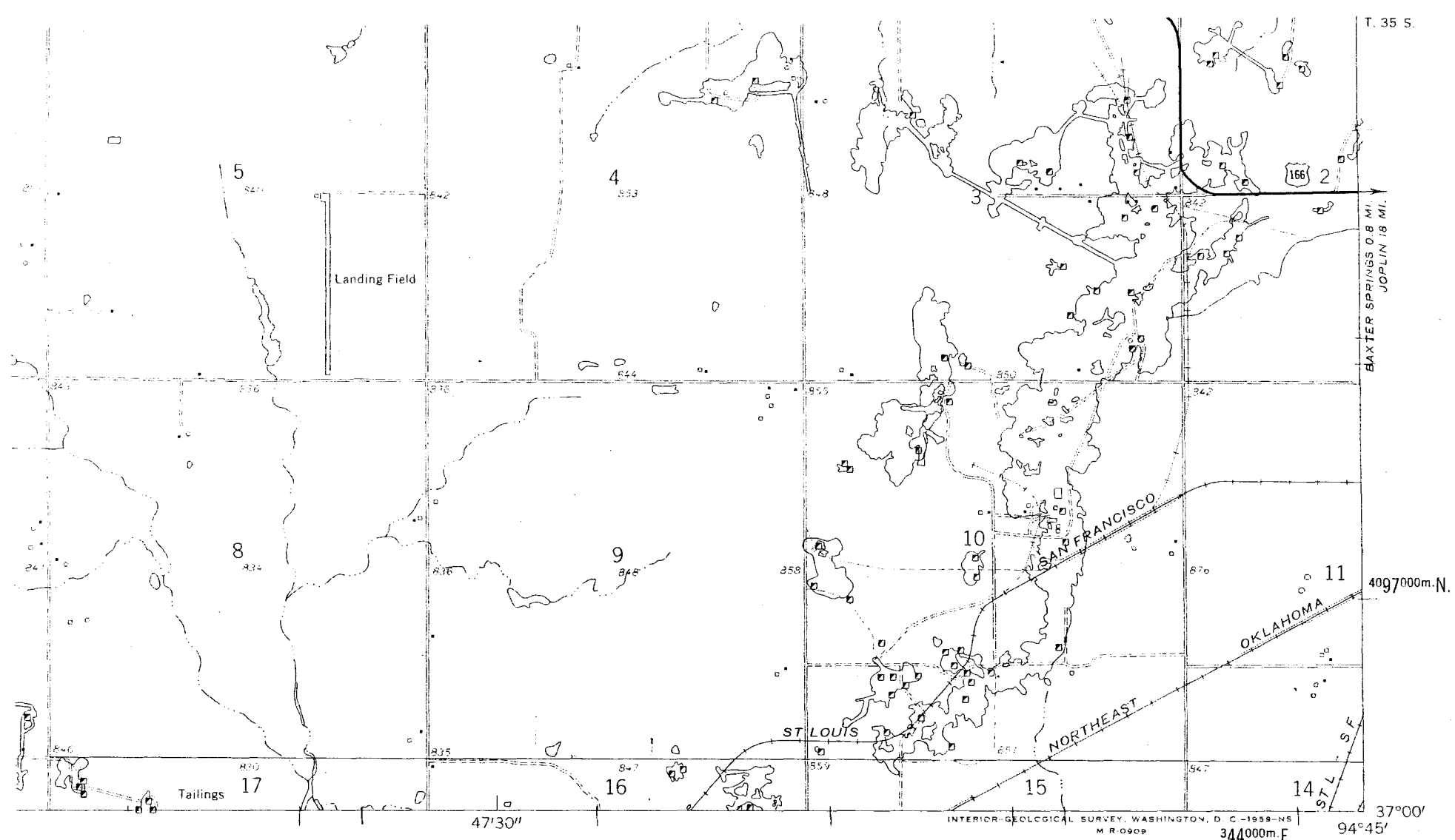
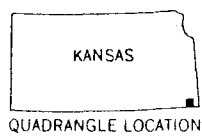


PLATE I-B: UNDERGROUND MINES AND SHAFTS,  
NEUTRAL QUADRANGLE, KANSAS  
BY JAMES R. MCCAULEY, 1983



KANSAS GEOLOGICAL SURVEY, THE UNIVERSITY OF KANSAS  
LAWRENCE, KANSAS  
PREPARED UNDER U.S. BUREAU OF MINES  
CONTRACT NO. JO100131

GEOLOGICAL SURVEY BASE MAPS  
SAS QUADRANGLE, 1958  
ARRELL L. DREW, 1983



**TranSystems**

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[www.transystems.com](http://www.transystems.com)

Kansas Geological Survey  
1930 Constant Ave  
Lawrence, Ks 66047-3726

RE: Construction and Demolition Land Fill  
Cherokee County, Kansas

September 24, 2008

Dear Sir or Madam:

As designated in K.A.R. 28-29-3000 we are required to seek comment from your agency regarding the above referenced project. Attached find a vicinity map and a general plan of the proposed construction and demolition landfill.

As part of the application process, the applicant is to submit an approval or exemption for the siting of the new C&D unit with respect to stability from your agency.

Please return comments within 30 days to the address above.

Should you have any questions or comments, please contact me.

Very Truly Yours,

A handwritten signature in black ink, appearing to read "Shawn Turner", written over a horizontal line.

Shawn Turner, PE

**A portion of Government Lots Three and Four in Section  
Sixteen, Township 35 S, Range 24 E, Sixth Principal Meridian,  
Cherokee, County, Kansas**

