KU KANSAS GEOLOGICAL SURVEY
The University of Kansas

1930 Constant Avenue
Lawrence, KS 66047-3724
February 3, 2009

David E. Cox, P. E.
Utilities Engineering Manager
City of Olathe
100 East Santa Fe
P. O. Box 768
Olathe, KS 66051-0768

Dear Mr. Cox:

I was asked to review the City of Olathe plans for wastewater treatment improvements. The soils in the area are silty loams and depth to water is generally less than 25 ft. Because of the presumed slow permeability of the soils, excavation may cause changes in permeability. Evaluation of the infiltration of the soils in terms of potential leakage should be considered in the development of the site. No mention was made of compaction or lining of the lagoon to prevent leakage from the lagoon. I presume that the KDHE regulations address the construction issues to limit leakage from the lagoons

I think the project should go forward assuming that the above comments are addressed.

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

Margaret A. Townsend
Geohydrology Section

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
X	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: see attached letter

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

Margaret A. Townsend — Reviewer's Name

KGS — Division/Agency/Commission

2-4-09 — Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Olathe

Contact Person: David E. Cox, P.E.

Address: 1385 S. Robinson

City, State: Olathe, Kansas Zip: 66061 Phone: (913)- 971 - 9056

OLATHE
KANSAS

January 6, 2009

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

Re: City of Olathe, Kansas
Kansas Water Pollution Control Revolving Loan Fund
City of Olathe Project No. 1-C-004-07
Cedar Creek Wastewater Treatment Plant Expansion

To Whom It May Concern:

The City of Olathe, Kansas has completed an application to the Kansas Department of Health and Environment for a loan from the Kansas Water Pollution Control Revolving Loan Fund for detailed design services for the above referenced project.

The project includes the following:

- The project will construct wastewater treatment process trains which will provide for 3.5 mgd of biological nutrient removal. Presently, the treatment process is capable of complete nitrification, but future permit goals will require both total nitrogen and phosphorus removal.

- It is the City's intent to have the recommended design memo completed by June 2009. The engineering and construction costs for the improvements are estimated to be $43,972,000.

- All improvements associated with the plant expansion will be located on existing City of Olathe property. The plant will be expanded to the south and all unit processes will be located within the perimeter of a new earthen berm that will protect the structure from 100 year return frequency flood events. The plant and construction project is located at 36169 West 119th Street; NW ¼ Section 20, Township 13S, Range 23E, at latitude 38° 54'40" and longitude 94° 54'40", Johnson County, Kansas.

Site plans reflecting the proposed construction phasing are attached. **Only Phase 1 improvements will be completed at this time.** An environmental investigation was previously completed prior to the construction of the existing earthen berm, and there were no environmental issues noted at that time.

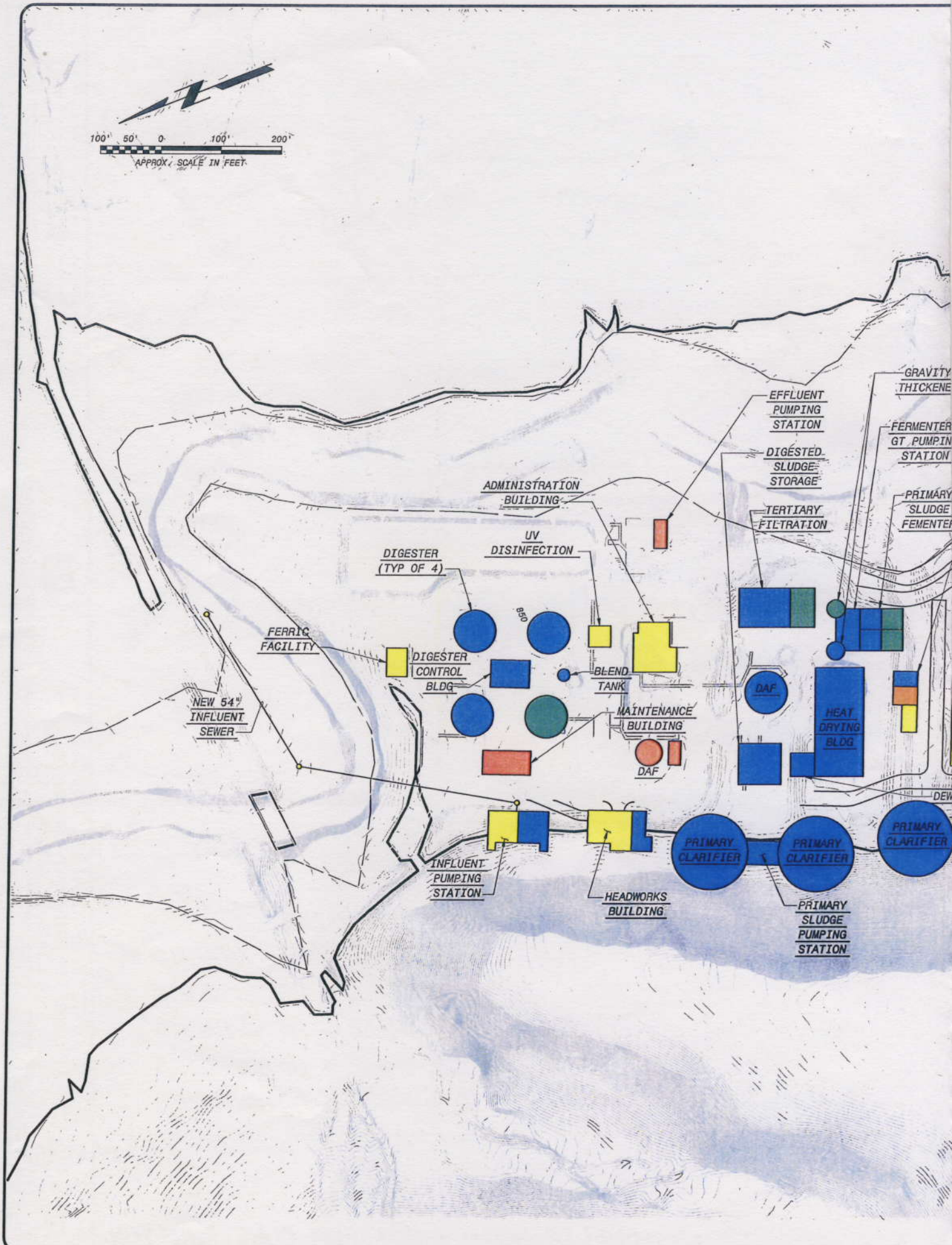
We would appreciate your review of the project description and location, and any comments you may have, within 30 days from the date of this letter.

Please contact me at (913) 971-9056 or via email at dcox@olatheks.org should you have any questions.

Sincerely,

David E. Cox

David E. Cox, P.E.
Utilities Engineering Manager
City of Olathe



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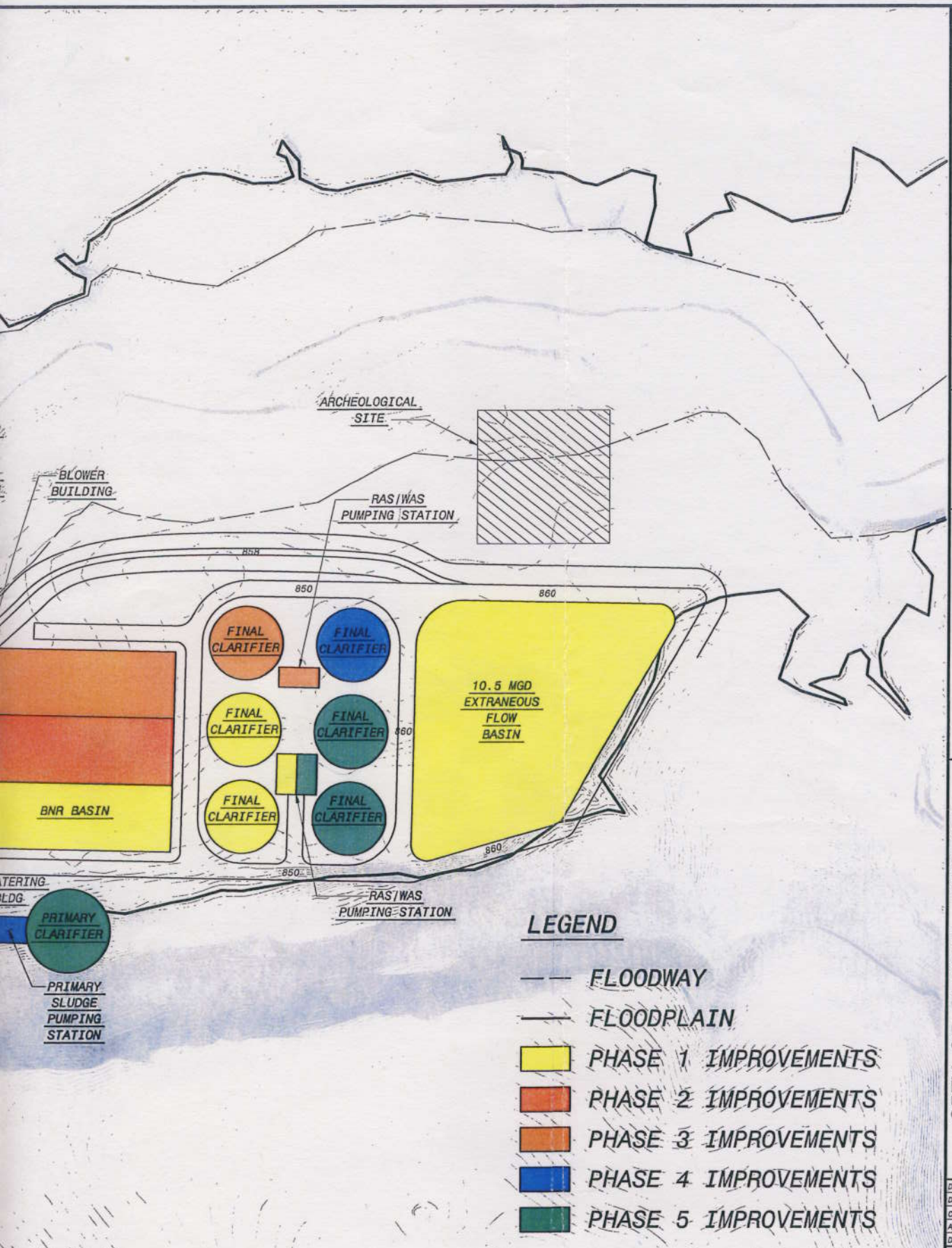

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

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SAVED: ST0500078, 7/23/2008 6:57:39 AM
PLOTTED: ST0500078, 7/31/2008 9:10:40 AM
USER: ST0500078
DWG VER: 1.8

XREF1:C-SITE-PROPOSED.dwg
XREF2:C-SITE-EXIST.dwg
XREF3:C-SITE-PHASED.dwg
XREF4:Future Floodplain.dwg
XREF5:CONTOURS.dwg

BLACK & VEATCH
Black & Veatch Corporation
Kansas City, Missouri

CITY OF OLATHE, KANSAS
CEDAR CREEK WWTP EXPANSION
PRELIMINARY DESIGN STUDY

PHASED SITE LAYOUT

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE:

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

B&V PROJECT NO. 161036
CITY PROJECT NO.

FIG. 1-1

PRELIMINARY - NOT FOR CONSTRUCTION