

April 14, 2009

Chris Meinen
Smith & Oakes, Inc.
P.O. Box 696
107 North Summit
Arkansas City, Kansas 67005

Re: City of Arkansas City, Project No. 29-006 – Patterson Park Water Extension

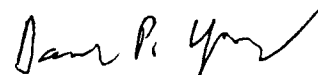
Dear Mr./Ms. Meinen,

The Kansas Geological Survey (KGS) has received your March 27, 2009 letter requesting us to review the above referenced project. The proposed project consists of constructing approximately 10,300 feet of 16" water line serving Patterson Park Subdivision, located in Sections 6 and 7, Township 34 South, Range 4 East, and Section 12, Township 34 South, Range 3 East.

A review of regional geologic information and project information provided by you indicates that there are no unduly adverse geologic conditions that should affect this project. Site-specific conditions should be considered prior to construction. A completed agency review form is enclosed.

This letter is an assessment based on information about the regional geologic conditions available via the KGS and cannot be used in substitute of a detailed site characterization. Other geologic conditions, not discussed herein, or for which the KGS has no knowledge, may affect the viability of the project. It is the responsibility of the applicant to provide any necessary characterization, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Sincerely,



David P. Young,
Hydrologist

Encl

cc: Dan Suchy, KGS Data Resources Library

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: Please see cover 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.)

Dan G. Goy
Reviewer's Name

KG5
Division/Agency/Commission

4/14/09
Date

Project Title: Public Water Supply Loan Fund Application

Applicant: _____

Contact Person: _____

Address: _____

City, State: _____ Zip: _____ Phone: (____) - _____ - _____



SMITH & OAKES, INC

CIVIL ENGINEERING / LAND SURVEYING

**P.O. Box 696 / 107 North Summit / Arkansas City, KS 67005
620-442-4756 / FAX 620-442-0461 / Info@smithandoakes.com**

Al J. Oakes, P.E., L.S.

President

March 27, 2009

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

RE: City of Arkansas City
Kansas Public Water Supply Loan Fund
Project No. 29-006 – Patterson Park Water Extension

To Whom It May Concern:

The City of Arkansas City, Kansas is preparing an application to the Kansas Department Of Health and Environment for a loan from the Kansas Public Water Supply Loan Fund for the referenced project. The proposed project will construct approximately 10,300 feet of 16" water line serving Patterson Park Subdivision, located in Sections 6 and 7, Township 34 South, Range 4 East, and Section 12, Township 34 South, Range 3 East of the 6th P.M. (see attached sketch for proposed alignment).

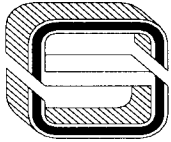
We would appreciate your review of the project description and location, and any comments you may have, within 30 days. A project review form is enclosed for your use.

Please call Chris Meinen at (620) 442-4756 or e-mail to chris@smithandoakes.com if you have any questions.

Thank you,

Chris Meinen
Smith & Oakes, Inc.

CAM/tls



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CONSTRUCTION COST ESTIMATE

DATE: 3/12/2009

PROJECT #: 28-140

PROJECT: 16" Water Line Serving Patterson Park Subdivision - US HWY 77 Alignment
with 6" Secondary Line

NO.	ITEM	QUAN.	UNIT	UNIT PRICE	EXTENSION
MATERIALS AND INSTALLATION					
1	R/W Clear and Restore w/seeding	10768	LF \$	4.00	\$ 43,072.00
2	16" w/6" Trench/Backfill (6' Avg. Depth) [Unclassified Excavation]	8763	LF \$	19.00	\$ 166,497.00
3	16" w/6" Trench/Backfill (6' Avg. Depth) [Rock Excavation]	1575	LF \$	45.00	\$ 70,875.00
4	6" Trench/Backfill (4' Avg. Depth) [Unclassified Excavation]	380	LF \$	17.00	\$ 6,460.00
5	16" Ductile Iron (Class 100) Pipe	10306	LF \$	38.00	\$ 391,628.00
6	6" PVC Pipe (C 900)	10686	LF \$	14.00	\$ 149,604.00
7	24" Steel Casing by Boring	120	LF \$	285.00	\$ 34,200.00
8	10" Steel Casing by Boring	120	LF \$	105.00	\$ 12,600.00
9	24" Steel Casing by Open Cut	80	LF \$	285.00	\$ 22,800.00
10	10" Steel Casing by Open Cut	80	LF \$	105.00	\$ 8,400.00
11	Pedestal Stream Crossing	1	LS \$	26,000.00	\$ 26,000.00
12	Connect to Existing Line	2	EA \$	2,500.00	\$ 5,000.00
13	Fire Hydrant Set	4	EA \$	2,250.00	\$ 9,000.00
14	Concrete Thrust Block	40	EA \$	200.00	\$ 8,000.00
15	16" Gate Valve and Box	4	EA \$	3,500.00	\$ 14,000.00
16	16" MJ Plug	1	EA \$	3,500.00	\$ 3,500.00
17	6" MJ Plug	1	EA \$	650.00	\$ 650.00
18	16" x12" MJ Reducer	1	EA \$	750.00	\$ 750.00
19	16" MJ 90 degree Bend	3	EA \$	750.00	\$ 2,250.00
20	16" MJ 45 degree Bend	4	EA \$	750.00	\$ 3,000.00
21	16" MJ 22 1/2 degree Bend	9	EA \$	750.00	\$ 6,750.00
22	16" MJ 11 1/4 degree Bend	2	EA \$	750.00	\$ 1,500.00
23	12x12x12 MJ Tee	1	EA \$	800.00	\$ 800.00
24	16" Gate Valve and Box	4	EA \$	1,500.00	\$ 6,000.00
25	6" MJ 90 degree Bend	3	EA \$	450.00	\$ 1,350.00
26	6" MJ 45 degree Bend	4	EA \$	450.00	\$ 1,800.00
27	6" MJ 22 1/2 degree Bend	9	EA \$	450.00	\$ 4,050.00
28	6" MJ 11 1/4 degree Bend	2	EA \$	450.00	\$ 900.00
29	12x6x12 MJ Tee	1	EA \$	700.00	\$ 700.00
30	Tandem Air Release Valve and Vault	3	EA \$	3,200.00	\$ 9,600.00
31	Project Soil Erosion and Pollution Control	1	LS \$	10,000.00	\$ 10,000.00

CONSTRUCTION TOTAL:

\$ 1,021,736.00

SCALE: 1"=2000'

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