

AGENDA
SHAWNEE MUNICIPAL AUTHORITY
March 20, 2017 AT 6:30 P.M.
COMMISSION CHAMBERS AT CITY HALL
SHAWNEE, OKLAHOMA

CALL TO ORDER

DECLARATION OF A QUORUM

All motions will be made in the affirmative. The fact that a commissioner makes or offers a second to a motion does not mean that the commissioner must vote in favor of passage.

1. Consider approval of Consent Agenda:
 - a. Minutes from the March 6, 2017 regular meeting.
2. Presentation by the United States Geological Survey (USGS) of results of the Shawnee Reservoir Bathymetry and Capacity Study.
3. New Business

(Any matter not known about or which
could not have been reasonably foreseen
prior to the posting of the agenda)
4. Adjournment

Respectfully submitted

Phyllis Loftis, CMC, City Clerk

Shawnee Municipal Authority

1.a.

Meeting Date: 03/20/2017

SMA Minutes

Submitted By: Kacie Bachhofer, City Clerk

Department: City Clerk

Information

Title of Item for Agenda

Minutes from the March 6, 2017 regular meeting.

Fiscal Impact

Attachments

SMA Minutes

THE TRUSTEES OF THE SHAWNEE MUNICIPAL AUTHORITY OF THE CITY OF SHAWNEE, COUNTY OF POTTAWATOMIE, STATE OF OKLAHOMA, MET IN REGULAR SCHEDULED SESSION IN THE COMMISSION CHAMBERS AT CITY HALL, 9TH AND BROADWAY, SHAWNEE, OKLAHOMA, MONDAY, MARCH 6, 2017, DURING THE BOARD OF CITY COMMISSIONERS MEETING AT 6:30 P.M., PURSUANT TO NOTICE DULY POSTED AS PRESCRIBED BY LAW. UPON ROLL CALL, A QUORUM WAS DECLARED WITH THE FOLLOWING MEMBERS IN ATTENDANCE:

PRESENT: Bushong, Gillham, Harrod, Rutherford, Shaw, Salter

ABSENT: Finley

Call to Order

Declaration of a Quorum

AGENDA ITEM NO. 1: Consider approval of Consent Agenda:

- a. Minutes from the February 21, 2017 regular meeting.

A motion was made by Trustee Gillham, seconded by Trustee Shaw, to approve Consent Agenda Item Nos. 1(a). Motion carried 6-0.

AYE: Gillham, Shaw, Salter, Bushong, Harrod, Rutherford

NAY: None

AGENDA ITEM NO. 2: Presentation by C.H. Guernsey & Company regarding Master Plan Professional Services.

City Manager Justin Erickson explained that Shawnee Municipal Authority adopted a comprehensive water and wastewater master plan in 2014. Staff has been negotiating contract terms form engineering services with C.H. Guernsey. Mr. Erickson introduced Mr. Ken Senour with C.H. Guernsey to begin a presentation on the scope of services that will be performed and a timeline of said services.

Mr. Senour stated that C.H. Guernsey has teamed up with AECOM, one of the largest engineering firms in the country. He provided a brief background on C.H. Guernsey and introduced the project manager, Mr. Larry Roach. Mr. Roach has worked with the City of Shawnee previously on a similar project.

Mr. Roach gave a PowerPoint presentation on how C.H. Guernsey will perform the project. He explained that staff will be working closely with the plant

operator personnel during the process. Mr. Roach described changes that will be made to each facility and gave details on the process of treating wastewater.

In response to questions asked by the Commissioners, Mr. Roach explained the timeline of the project and lifespan of the equipment.

AGENDA ITEM NO. 3: Consider authorization of Agreement between Shawnee Municipal Authority and C.H. Guernsey & Company for Engineering, Design, Bidding, and Construction.

A motion was made by Trustee Rutherford, seconded by Trustee Bushong, to authorize the City Manager to enter an agreement, subject to final review of the City Manager and City Attorney, between Shawnee Municipal Authority and C.H. Guernsey & Company for Engineering, Design, Bidding, and Construction services. Motion carried 6-0.

AYE: Rutherford, Bushong, Gillham, Harrod, Shaw, Salter

NAY: None

AGENDA ITEM NO. 4: New Business (Any matter not known about or which could not have been reasonably foreseen prior to the posting of the agenda)

There was no New Business.

AGENDA ITEM NO. 5: Adjournment

There being no further business to be considered, the meeting was adjourned by power of the Chair. (7:32 p.m.)

JAMES HARROD
VICE CHAIRMAN

ATTEST:

KACIE BACHHOFFER, SECRETARY

Shawnee Municipal Authority

2.

Meeting Date: 03/20/2017

USGS Presentation

Submitted By: Kacie Bachhofer, City Clerk

Department: City Clerk

Information

Title of Item for Agenda

Presentation by the United States Geological Survey (USGS) of results of the Shawnee Reservoir Bathymetry and Capacity Study.

Fiscal Impact

Attachments

USGS Map

USGS Abstract



Bathymetry and capacity of Shawnee Reservoir, Oklahoma, 2016

Scientific Investigations Map 3374

Prepared in cooperation with the City of Shawnee

By: Chad E. Ashworth, S. Jerrod Smith, and Kevin A. Smith

DOI: [10.3133/sim3374](https://doi.org/10.3133/sim3374)

[Tweet](#)



Links

- Sheet: [Map \(4.48 MB pdf\)](#)
- Data Release: [USGS Data Release - Bathymetry and Capacity of Shawnee Reservoir, Oklahoma, 2016](#)
- Download citation as: [RIS](#)

Abstract

Shawnee Reservoir (locally known as Shawnee Twin Lakes) is a man-made reservoir on South Deer Creek with a drainage area of 32.7 square miles in Pottawatomie County, Oklahoma. The reservoir consists of two lakes connected by an equilibrium channel. The southern lake (Shawnee City Lake Number 1) was impounded in 1935, and the northern lake (Shawnee City Lake Number 2) was impounded in 1960.

Shawnee Reservoir serves as a municipal water supply, and water is transferred about 9 miles by gravity to a water treatment plant in Shawnee, Oklahoma. Secondary uses of the reservoir are for recreation, fish and wildlife habitat, and flood control. Shawnee Reservoir has a normal-pool elevation of 1,069.0 feet (ft) above North American Vertical Datum of 1988 (NAVD 88). The auxiliary spillway, which defines the flood-pool elevation, is at an elevation of 1,075.0 ft.

The U.S. Geological Survey (USGS), in cooperation with the City of Shawnee, has operated a real-time stage (water-surface elevation) gage (USGS station 07241600) at Shawnee Reservoir since 2006. For the period of record ending in 2016, this gage recorded a maximum stage of 1,078.1 ft on May 24, 2015, and a minimum stage of 1,059.1 ft on April 10–11, 2007. This gage did not report reservoir storage prior to this report (2016) because a sufficiently detailed and thoroughly documented bathymetric (reservoir-bottom elevation) survey and corresponding stage-storage relation had not been published. A 2011 bathymetric survey with contours delineated at 5-foot intervals was published in Oklahoma Water Resources Board (2016), but that publication did not include a stage-storage relation table. The USGS, in cooperation with the City of Shawnee, performed a bathymetric survey of Shawnee Reservoir in 2016 and released the bathymetric-survey data in 2017. The purposes of the bathymetric survey were to (1) develop a detailed bathymetric map of the reservoir and (2) determine the relations between stage and reservoir storage capacity and between stage and reservoir surface area. The bathymetric map may serve as a baseline to which temporal changes in storage capacity, due to sedimentation and other factors, can be compared. The stage-storage relation may be used in the reporting of real-time Shawnee Reservoir storage capacity at USGS station 07241600 to support water-resource management decisions by the City

of Shawnee.

Suggested Citation

Ashworth, C.E., Smith, S.J., and Smith, K.A., 2017, Bathymetry and capacity of Shawnee Reservoir, Oklahoma, 2016: U.S. Geological Survey Scientific Investigations Map 3374, 1 sheet, <https://doi.org/10.3133/sim3374>.

ISSN: 2329-132X (online)

ISSN: 2329-1311 (print)

Study Area

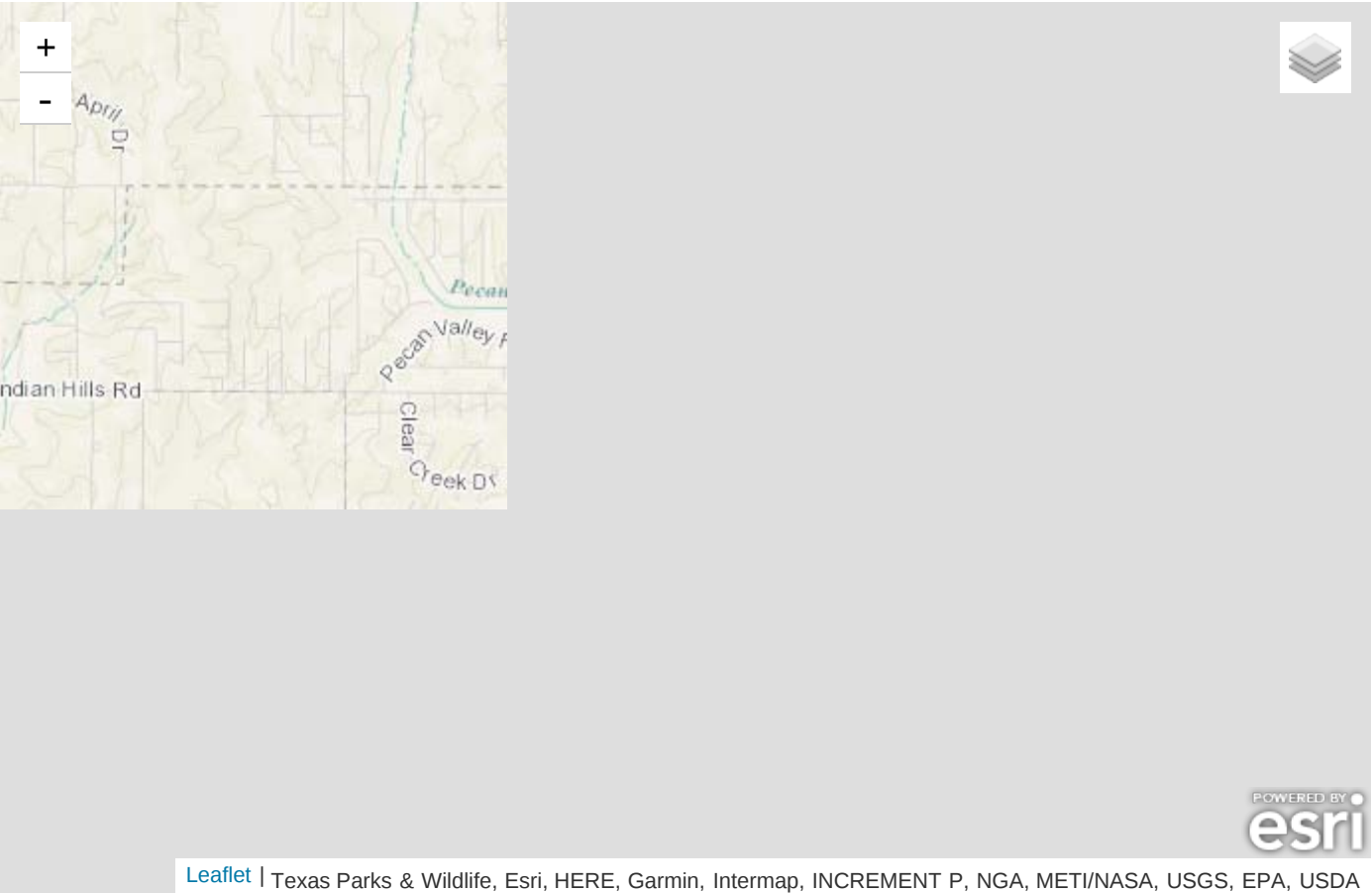


Table of Contents

- Acknowledgments
- Introduction
- Methods
- Quality Assurance
- Results
- Summary
- References

First posted February 13, 2017

For additional information, contact:
Director, Oklahoma Water Science Center
U.S. Geological Survey
202 NW 66th, Bldg 7
Oklahoma City, OK 73116

<http://ok.water.usgs.gov/>

Additional publication details

Publication type:	Report
Publication Subtype:	USGS Numbered Series
Title:	Bathymetry and capacity of Shawnee Reservoir, Oklahoma, 2016
Series title:	Scientific Investigations Map
Series number:	3374
DOI:	10.3133/sim3374
Year Published:	2017
Language:	English
Publisher:	U.S. Geological Survey
Publisher location:	Reston, VA
Contributing office(s):	Oklahoma Water Science Center
Description:	Sheet: 42.0 x 36.0 inches; Data Release
Country:	United States
State:	Oklahoma
Other Geospatial:	Shawnee reservoir
Online Only (Y/N):	N
Additional Online Files (Y/N):	Y

Part or all of this report is presented in Portable Document Format (PDF). For best results viewing and printing PDF documents, it is recommended that you download the documents to your computer and open them with Adobe Reader. PDF documents opened from your browser may not display or print as intended. Download the latest version of [Adobe Reader](#), free of charge. More information about viewing, downloading, and printing report files can be found [here](#).