



GARBER-WELLINGTON ASSOCIATION **POLICY COMMITTEE**

Chair

Ray Poland
Jones City Mayor

Vice-Chair

Mark Hamm
Moore Councilmember

Secretary/Treasurer

Matt Dukes
Midwest City Mayor

Executive Director

Mark W. Sweeney, AICP

association of central oklahoma governments

4205 N. Lincoln Blvd. | Oklahoma City, OK 73105 | 405.234.2264 | acogok.org

GWPC AGENDA:

THURSDAY, JUNE 30, 2022, 2:30 P.M.



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THE GARBER-WELLINGTON ASSOCIATION POLICY COMMITTEE WILL HOLD A REGULAR MEETING ON THURSDAY, JUNE 30, AT ACOG IN THE OKLAHOMA BOARD ROOM, 4205 N. LINCOLN BLVD., OKLAHOMA CITY, OKLAHOMA.

PLEASE NOTIFY ACOG AT 405-234-2264 (TDD/TTY CALL 7-1-1 STATEWIDE OR EMAIL title.vi@acogok.org) BY 5 P.M. MONDAY, JUNE 27, IF YOU REQUIRE ACCOMMODATIONS PURSUANT TO THE AMERICANS WITH DISABILITIES ACT OR SECTION 504 OF THE REHABILITATION ACT.

AGENDA

1. CALL TO ORDER ([ATTACHMENT 1](#))
2. APPROVAL OF APRIL 28, 2022 MINUTES ([ATTACHMENT 2](#))
3. STAFF REPORT: John Harrington, Water Resources Director
For information only.
 - A. DROUGHT UPDATE ([ATTACHMENT 3-A](#))
 - B. SANDSTONE MAPPING UPDATE ([ATTACHMENT 3-B](#))
 - C. PROPOSED 604(b) PROJECTS ([ATTACHMENT 3-C](#))
4. PROGRESS REPORT: John Harrington, Water Resources Director ([ATTACHMENT 4](#))
For information only.
5. NEW BUSINESS
6. ADJOURNMENT

NEXT MEETING:

August 25, 2022 at 2:30 p.m.

ATTACHMENT 1

GARBER-WELLINGTON POLICY COMMITTEE

CITY/ORGANIZATION	MEMBERS	ALTERNATES
BETHANY	Hon. Nikki Lloyd, Mayor	Hon. Chris Powell, Vice-Mayor
		Hon. Kathy Larsen, Councilmember
CALUMET	Hon. Terry Brungardt, Trustee	Hon. Bruce Wallace, Mayor
CHOCTAW	Hon. Chad Williams, Councilmember	Hon. Jeannie Abts, Councilmember
CRESCENT	Hon. Jim Neal, Councilmember	Hon. Greg Cummings, Mayor
DEL CITY	Hon. Floyd Eason, Mayor	Hon. Pam Finch, Vice-Mayor
		Hon. Michael Dean, Councilmember
EDMOND	Hon. Josh Moore, Councilmember	Hon. Darrell Davis, Mayor
EL RENO	Hon. Matt White, Mayor	Hon. Tim Robinson, Councilmember
FOREST PARK	No Designee	Vacant
GEARY	No Designee	Hon. Tabbitha Kiener, Councilmember
		Hon. Bobby Allen, Mayor
GOLDSBY	Hon. Glenn Berglan, Mayor	Hon. Russ McReynolds, Trustee
GUTHRIE	Hon. Steven J. Gentling, Mayor	Hon. Jeff Taylor, Councilmember
HARRAH	Hon. Tim Rudek, Councilmember	Hon. Chris Lally, Councilmember
JONES CITY	Hon. Ray Poland, Mayor	Vacant
LANGSTON CITY	No Designee	Hon. Magnus Scott, Trustee
		Hon. Linda Williams, Trustee
LEXINGTON	Hon. Mike Donovan, Councilman	Hon. Max Punneo, Vice-Mayor
LUTHER	Hon. William T. Arps, Mayor	Hon. Joshua Rowton, Trustee
		Hon. Carla Caruthers, Trustee
MIDWEST CITY	Hon. Matt Dukes, Mayor	Hon. Pat Byrne, Vice-Mayor
		Hon. Rick Favors, Councilmember
MOORE	Hon. Mark Hamm, Councilmember	Hon. Glenn Lewis, Mayor
		Any Moore Councilmember
MUSTANG	Hon. Brian Grider, Mayor	Hon. Michael Ray, Councilmember

CITY/ORGANIZATION	MEMBERS	ALTERNATES
NICHOLS HILLS	Hon. Peter Hoffman, Mayor	Vacant
NICOMA PARK	Hon. Mark Cochell, Mayor	Hon. Mike Czerczyk, Vice-Mayor
NOBLE	Hon. Phil Freeman, Mayor	Hon. Ezra Roesler, Vice-Mayor
NORMAN	Hon. Breea Clark, Mayor	Hon. Stephen Holman, Councilmember
OKARCHIE	Hon. Jeff Brueggen, Trustee	Hon. Jeff Sadler, Trustee/Mayor
OKLAHOMA CITY	Hon. Todd Stone, Councilmember	Any Oklahoma City Councilmember
PIEDMONT	No Designee	Hon. Melissa Ashford, Councilmember
		Hon. Austin Redus, Councilmember
SLAUGHTERVILLE	Hon. John Koehler, Trustee	Hon. Eugene Dicksion, Mayor
SPENCER	Hon. Frank Calvin, Mayor	Hon. Charmin Williams, Vice-Mayor
THE VILLAGE	Hon. Sonny Wilkinson, Mayor	Hon. Adam Graham, Vice-Mayor
TUTTLE	Hon. Mary Smith, Vice-Mayor	Hon. Austin Hughes, Councilmember
UNION CITY	Hon. Charlie Ross, Vice-Mayor/Trustee	Hon. Bob McGregor, Trustee
WARR ACRES	Hon. Jim Mickley, Mayor	Hon. Roger Godwin, Councilmember
		Hon. John Knipp, Councilmember
YUKON	Hon. Shelli Selby, Mayor	Vacant
CANADIAN COUNTY	Hon. Marc Hader, Commissioner	Hon. Jack Stewart, Commissioner
		Hon. David Anderson, Commissioner
CLEVELAND COUNTY	Hon. Rod Cleveland, Commissioner	Hon. Darry Stacy, Commissioner
		Hon. Harold Haralson, Commissioner
LOGAN COUNTY	Hon. Kody Ellis, Commissioner	Hon. Marven Goodman, Commissioner
		Hon. Monty Piearcy, Commissioner
OKLAHOMA COUNTY	Hon. Carrie Blumert, Commissioner	Hon. Brian Maughan, Commissioner
		Hon. Kevin Calvey, Commissioner

ATTACHMENT 2

SUBJECT:

MINUTES OF THE GARBER-WELLINGTON ASSOCIATION POLICY COMMITTEE MEETING

DATE:

APRIL 28, 2022

The regularly scheduled meeting of the Garber-Wellington Association Policy Committee was convened at 2:31 p.m. on April 28, 2022 in the Association of Central Oklahoma Governments (ACOG) Board Room, 4205 N. Lincoln Boulevard, Oklahoma City, Oklahoma. The meeting was held as indicated by a notice filed in advance with the Oklahoma County Clerk and by notice posted at the ACOG offices at least twenty-four hours prior to the meeting.

PRESIDING

Hon. Matt Dukes, Secretary-Treasurer

CITY/AGENCY

Midwest City

POLICY COMMITTEE MEMBERS PRESENT IN-PERSON

Hon. Terry Brungardt, Trustee

Hon. Chad Williams, Councilmember

Hon. Josh Moore, Councilmember

Hon. Tim Rudek, Councilmember

Hon. Brian Grider, Vice-Mayor

Hon. Phil Freeman, Mayor

Hon. John Koehler, Trustee

Hon. Mary Smith, Vice-Mayor

Hon. Roger Godwin, Councilmember

Hon. Shelli Selby, Mayor

Hon. Marc Hader, Commissioner

Calumet

Choctaw

Edmond

Harrah

Mustang

Noble

Slaughterville

Tuttle

Warr Acres

Yukon

Canadian County

POLICY COMMITTEE MEMBERS ABSENT

Hon. Nikki Lloyd, Mayor

Hon. Floyd Eason, Mayor

Hon. Matt White, Mayor

No Designee

Hon. Warren G. Carter, Councilmember

Hon. Glenn Berglan, Mayor

Hon. Steven J. Gentling, Mayor

No Designee

Hon. Mike Donovan, Councilmember

Hon. Terry Arps, Mayor

Hon. Mark Hamm, Councilmember

Hon. Peter Hoffman, Mayor

Hon. Mark Cochell, Mayor

Hon. Breea Clark, Mayor

Hon. Joe Frisby, Trustee

Hon. Todd Stone, Councilmember

No Designee

Hon. Frank Calvin, Mayor

Hon. Sonny Wilkinson, Mayor

Bethany

Del City

El Reno

Forest Park

Geary

Goldsby

Guthrie

Langston City

Lexington

Luther

Moore

Nichols Hills

Nicoma Park

Norman

Okarche

Oklahoma City

Piedmont

Spencer

The Village

POLICY COMMITTEE MEMBERS ABSENT (continued)

Hon. Charlie Ross, Vice-Mayor
 Hon. Rick Cacini, Councilmember
 Hon. Rod Cleveland, Commissioner
 Hon. Kody Ellis, Commissioner
 Hon. Carrie Blumert, Commissioner

CITY/AGENCY

Union City
 Yukon
 Cleveland County
 Logan County
 Oklahoma County

GUESTS

Pete White

POSITION

ACOG Attorney

STAFF

Mark W. Sweeney
 John M. Sharp
 John Harrington
 Beverly Garner
 Eric Pollard
 Jimmy Smith

POSITION

Executive Director
 Deputy Director
 Water Resources Director
 Executive Assistant
 Clean Cities Coordinator
 IT Operations Specialist

1. CALL TO ORDER

Presiding Matt Dukes, Secretary-Treasurer, called the meeting to order at 2:31 p.m.

2. APPROVAL OF MINUTES - APRIL 28, 2022

Director John Koehler, Slaughterville, made a motion to approve the Garber-Wellington Association Policy Committee minutes. Director Josh Moore, Edmond, seconded the motion. The motion carried unanimously.

3. STAFF REPORT**A. DROUGHT UPDATE**

Spring 2022 is starting out cold and dry. An exceptional drought that covered the Panhandle has now spread eastward into the western one-third of the state.

Although the beginning of February saw a record snowfall, this translated into little or no real moisture overall. Most of Central Oklahoma shows at least 30 days since significant (>0.25") rainfall has been recorded. The Oklahoma Panhandle is beginning to experience dust storms; Kenton, OK has experienced 233 days since the last rain.

Recharge to the aquifer has been essentially zero since last July. Static water levels recorded at the Spencer Mesonet station are starting to retreat now from the decade high.

La Niña effects will continue to affect us for the short term. Long term models suggest that La Niña will last through the end of the year.

B. SANDSTONE MAPPING UPDATE

The multi-year sandstone mapping project funded by the 2019 604(b) grant will wrap up in April 2022. The 2019 604(b) project in the Edmond area extends the previous 2018 604(b) work northward.

All eight cross-sections have been completed. About 455 wells have been correlated in this project. Some of the cross sections go through the Nichols Hills and Edmond well fields.

Sand thickness (isopach) maps are being generated. The maps extend the north-trending drilling area in the Town of Jones City and City of Choctaw.

The U.S. Environmental Protection Agency has approved the 2020, 604(b) (Guthrie and Purcell Areas) Quality Assurance Project Plans.

C. NORTH CANADIAN RIVER PROJECT – STATE ARPA APPLICATION

ACOG has applied for the State allocated American Rescue Plan Act (ARPA) funding to develop the North Canadian River Dissolved Oxygen Model. This project is a basin-wide approach for a wasteload allocation study on the North Canadian River in Canadian, Oklahoma, and Pottawatomie Counties in Central Oklahoma.

Like a previous ACOG wasteload allocation study on the Canadian River to the south, the study will develop a mathematical model that will accurately simulate water quality in the streams under critical conditions. This model will then be used to generate simulations for the purpose of determining appropriate permit limits for point source discharges on the river.

As in the previous Canadian River study, the participants in the study will be the municipalities which are dischargers to the North Canadian River. This includes Oklahoma City, Midwest City, Del City, Choctaw, Harrah, El Reno, Town of Jones City, Yukon, and Shawnee. Most of these entities are members of ACOG, a substate 208 agency.

Associated agencies which will review the project are the Oklahoma Department of Environmental Quality (ODEQ) and the US Environmental Protection Agency (EPA). The proposed budget will be \$1.5 million for the three-year project.

4. PROGRESS REPORT

John Harrington pointed out that the progress report was available for review in the agenda.

5. NEW BUSINESS

None

6. ADJOURNMENT

There being no further business, the meeting adjourned at 3:06 p.m.

ATTACHMENT 3-A

SUBJECT:
DROUGHT UPDATE

DATE:
JUNE 30, 2022

FROM:
JOHN HARRINGTON
Water Resources Director

INFORMATION:

May and June have provided much needed rain to Oklahoma! Central Oklahoma has received at least 10 inches of rain in the past two months. This has pushed drought to the west of I-35 and has diminished the drought intensity in the Panhandle and western Oklahoma.

Mean recharge to the aquifer for May was 0.7 inches overall. Eastern Oklahoma County received most of the recharge. This was essentially the first recharge event since June 2021 and was about a third of a normal year's recharge in one month.

La Niña effects will continue to affect us for the short term. Long term models suggest that La Niña is decreasing in strength, with possible neutral conditions by late summer 2022.

ACTION REQUESTED:
For information only.

ATTACHMENT 3-B

SUBJECT:
SANDSTONE MAPPING UPDATE

DATE:
JUNE 30, 2022

FROM:
JOHN HARRINGTON
Water Resources Director

INFORMATION:

The multi-year sandstone mapping project funded by the 2019 604(b) grant wrapped up in April 2022. The 2019 604(b) project in the Edmond area extended the previous 2018 604(b) work northward.

Eight cross-sections were completed. About 455 wells have been correlated in this project. Some of the cross sections go through the Nichols Hills and Edmond well fields. Sand thickness (isopach) maps were generated. The maps extend the north-trending drilling area in the Town of Jones City and the City of Choctaw.

The U.S. Environmental Protection Agency has approved the 2020, 604(b) (Guthrie and Purcell Areas) Quality Assurance Project Plans. The EPA has also received the Quality Assurance Project Plan (QAPP) for the 2021 604(b) project which will focus on integrating the sandstone mapping projects into an aquifer-wide integrated map and geologic model.

ACTION REQUESTED:
For information only.

ATTACHMENT 3-C

SUBJECT:

PROPOSED 604(b) PROJECTS

DATE:

JUNE 30, 2022

FROM:

JOHN HARRINGTON

Water Resources Director

INFORMATION:

Two Projects are being proposed this year for the ACOG 604(b) grant program.

22604(b) - Effects on Aquifer Recharge from the Proposed Turnpike in Norman.

The proposed Turnpike will run through a major portion of the nonurban recharge area of the Garber-Wellington aquifer in the City of Norman. Although the route at present is mostly rural, inevitable urbanization will likely take place along the route. This usually results in hardened surfaces such as parking lots and roofing along the route, resulting in less recharge to the aquifer and more overland flow into the watershed. Less recharge may affect the water table for domestic and municipal supplies and may also affect or downgrade potential drilling areas for additional well fields in the aquifer.

22604(b) BIL - Source Tracking for Bacteria - North Canadian River

Pathogens that are the result of human activities are often associated with sewerage, which may contain many sources of fluorescent dyes. These dyes can be found in many paper products such as toilet paper, or with common soaps and detergents.

The main objective of this project is to substantiate the relationship between flow, fluorescence, and pathogen concentrations in the North Canadian River and several major tributaries for purposes of determining human generated sources for pathogens. This project would continue the decadal ACOG sampling of bacteria in the urban corridor and watersheds of the North Canadian River.

This project will be different from the 2011 study with the aspect that the bacteria samples will be subject to UV light before the application of the fluorometer. This will also be supporting the proposed North Canadian ARPA project.

ACTION REQUESTED:

For information only.

ATTACHMENT 4

SUBJECT:
PROGRESS REPORT

DATE:
JUNE 30, 2022

FROM:
JOHN HARRINGTON
Water Resources Director

INFORMATION:

ACOG Drought Program

May and June have provided much needed rain to Oklahoma! Central Oklahoma has received at least 10 inches of rain in the past two months. This has pushed drought to the west of I-35 and has diminished the drought intensity in the Panhandle and western Oklahoma.

Mean recharge to the aquifer for May was 0.7 inches overall. Eastern Oklahoma County received most of the recharge. This was essentially the first recharge event since June 2021 and was about a third of a normal year's recharge in one month. La Niña effects will continue to affect us for the short term. Long term models suggest that La Niña is decreasing in strength, with possible neutral conditions by late summer 2022.

Since the last progress report, two monthly drought reports have been generated.

19604(b) - Stratigraphic Mapping Garber-Wellington Aquifer Northern Oklahoma County

The multi-year sandstone mapping project funded by the 2019 604(b) grant wrapped up in April 2022. The 2019 604(b) project in the Edmond area extended the previous 2018 604(b) work northward.

Eight cross-sections were completed. About 455 wells have been correlated in this project. Some of the cross sections go through the Nichols Hills and Edmond well fields. Sand thickness (isopach) maps were generated. The maps extend the north-trending drilling area in the Town of Jones City and the City of Choctaw.

20604(b) - Stratigraphic Mapping Garber-Wellington Aquifer Guthrie Area

As part of the 20604 604(b) grant, staff will continue and extend net sand maps created in the 18604(b) and 19604(b) projects into southern Logan County and southern Cleveland County. This effort will allow drillers to focus their efforts in areas with more sandstone, thus increasing well capacity. This project commenced in late April 2022.

21604(b) - Geologic Modeling Garber-Wellington Aquifer

The FY 18-20 604(b) mapping projects produced cross-sections and net sand isopach maps for most of the aquifer. These mapping programs utilized the Aquaveo GMS database structure, which integrates the GIS capabilities of ArcGIS with MODFLOW. To achieve an aquifer-wide database coverage and geologic model, additional data from the 2016 Norman area project must be integrated into the GMS database structure.

A geologic model for the entire aquifer will be produced, which can then be integrated into the groundwater models generated by the FY 2013-16 604(b) projects.

This project proposal has been approved by EPA as part of the 21604(b) grant program. The EPA has also received the Quality Assurance Project Plan (QAPP) for the FY 2021 604(b) project.

22604(b) - Effects on Aquifer Recharge from the Proposed Turnpike in Norman.

The proposed Turnpike will run through a major portion of the nonurban recharge area of the Garber-Wellington aquifer in the City of Norman. Although the route at present is mostly rural, inevitable urbanization will likely take place along the route. This usually results in hardened surfaces such as parking lots and roofing along the route, resulting in less recharge to the aquifer and more overland flow into the watershed. Less recharge may affect the water table for domestic and municipal supplies and may also affect or downgrade potential drilling areas for additional well fields in the aquifer.

The workplan proposal was sent to the Office of the Secretary of Energy and Environment (OSEE) and EPA in May 2022.

22604(b) BIL - Source Tracking for Bacteria - North Canadian River

The main objective of this project is to substantiate the relationship between flow, fluorescence, and pathogen concentrations in the North Canadian River and several major tributaries for purposes of determining human generated sources for pathogens. This project would continue the decadal ACOG sampling of bacteria in the urban corridor and watersheds of the North Canadian River and to apply fluorometry as a tool to address sources.

This project will be different from the 2011 study with the aspect that the bacteria samples will be subject to UV light before the application of the fluorometer.

The workplan proposal was sent to the Office of the Secretary of Energy and Environment (OSEE) and EPA in May 2022.

North Canadian River Project – State ARPA Application

ACOG has applied for the State allocated American Rescue Plan Act (ARPA) funding to develop the North Canadian River Dissolved Oxygen Model. This project is a basin-wide approach for a wasteload allocation study on the North Canadian River in Canadian, Oklahoma, and Pottawatomie Counties in Central Oklahoma.

Like a previous ACOG wasteload allocation study on the Canadian River to the south, the study will develop a mathematical model that will accurately simulate water quality in the streams under critical conditions. This model will then be used to generate simulations for the purpose of determining appropriate permit limits for point source discharges on the river.

As in the previous Canadian River study, the participants in the study will be the municipalities which are dischargers to the North Canadian River. This includes Oklahoma City, Midwest City, Del City, Choctaw, Harrah, El Reno, Town of Jones City, Yukon, and Shawnee. Most of these entities are members of ACOG, a substate 208 agency.

Associated agencies which will review the project are the Oklahoma Department of Environmental Quality (ODEQ) and the US Environmental Protection Agency (EPA). The proposed budget will be \$1.5 million for the three-year project.

ACTION REQUESTED:

For information only.