

**Bluegrass Area Water Management (409) Council**  
**Friday, 9:30 AM, July 17, 2015**  
Bluegrass ADD Conference Room  
699 Perimeter Drive  
Lexington, Kentucky

- I. Call to order of the Council - Judge Adams
- II. Roll taking by sign-in sheet (with self-introductions to follow) - Judge Adams
- III. Consideration of the minutes for the January 16, 2014 meeting - Judge Adams
- IV. Report(s) from Council members pertaining to local water and/or wastewater planning; current and planned projects - Karyn Leverenz
- V. Kentucky Rural Water Association Annual Conference - Donna McNeil
- VI. Old Business
  - a. System Visit/ Assessment Areas Report - Karyn Leverenz
- VII. New Business
  - a. Consideration of New and Amended Profiles - Karyn Leverenz
  - b. Scoring Rubric Subcommittee Final Recommendations - Karyn Leverenz
- VIII. Other / Questions / Comments / Further Discussion - Karyn Leverenz
- IX. Adjournment at approximately 11:30 AM - Judge Adams

**Minutes of the  
Bluegrass Area Water Management  
(409) Council Meeting  
April 17, 2015  
Bluegrass ADD Conference Room  
Lexington, KY**

**Call to Order:**

Judge Jim Adams with the Lincoln County Fiscal Court called the meeting of the Bluegrass Area Water Management Council to order on Friday, July 17, 2015 at 9:35AM in the Bluegrass Area Development District conference room. He then passed the meeting over to Mr. Ed Fortner of Berea Municipal Utilities and Ms. Karyn Leverenz with Bluegrass ADD. In addition to an attendance sign-in list, attendees also introduced themselves by name and organization. The following 23 persons were present.

**Those members (or proxies) present were:**

**Anderson County**

None.

**Bourbon County**

None

**Boyle County**

Earl Coffey – City of Danville

**Clark County**

Mike Flynn – Winchester Utilities

**Estill County**

Kenny Cole – Estill Co. Health Department

**Fayette County**

Cassie Felty – LFUCG – Division of Air and  
Water Quality  
Charlie Boland - Kentucky America Water Company

**Franklin County**

Robert Hewitt – Franklin County  
Bob Peterson – City of Frankfort

**Garrard County**

None

**Harrison County**

None

**Jessamine County**

None

**Lincoln County**

Judge/Executive Jim Adams – Lincoln County  
Bill Payne – Lincoln Co. Sanitation District

**Madison County**

Ed Fortner – Berea Municipal Utilities

**Mercer County**

Mischell Lee – North Mercer Water District  
Mike Sanford – Lake Village Water Assoc.  
Jim Carpenter - Mercer Co. Sanitation District

**Nicholas County**

None

**Powell County**

None

**Scott County**

Mayor Claude Christiansen – rep. Scott County  
Robert Wilhite – GMWSS

**Woodford County**

John S. Davis – Northeast Woodford County  
Water District

**Others Present were:**

Mickey Chasteen – Estill Co. Health Department  
Donna McNeil – Kentucky Rural Water Assoc.  
Phil Meador – Kenvirons

Kerry Odle – HMB Engineers  
John Steinmetz – Banks Engineering  
Ruth Webb – 1<sup>st</sup> KY Securities  
Ellen Williams – Kentucky American Water Co.  
Karyn Leverenz – Bluegrass ADD

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A copy of the Attendance List can be found in *Attachment A*.

**Members Not Represented:**

**Anderson County**

County of Anderson  
City of Lawrenceburg  
Anderson County Health Department  
South Anderson Water District

**Bourbon County**

County of Bourbon  
City of Millersburg  
City of North Middletown  
City of Paris  
Bourbon County Health Dept

**Boyle County**

County of Boyle  
Parksville Water District  
Boyle County Health Dept

**Clark County**

County of Clark  
City of Winchester  
Clark County Health Department  
East Clark Co. Water District

**Estill County**

County of Estill  
City of Irvine  
Irvine Municipal Utilities  
Estill County Water District No. 1

**Fayette County**

LFUCG – Mayor’s Office

**Franklin County**

Frankfort Plant Board  
Elkhorn Water District  
Franklin County Health Department  
Peaks Mill Water District  
US 60 Water District  
Farmdale Sanitation District  
Farmdale Water District

**Garrard County**

County of Garrard  
City of Lancaster  
Garrard County Health Department  
Garrard County Water Association

**Harrison County**

County of Harrison  
City of Cynthiana  
City of Berry  
Harrison County Health Department  
Harrison Co. Water Association

**Jessamine County**

County of Jessamine  
City of Nicholasville  
City of Wilmore  
Jessamine South East Water District  
Jessamine County Water District No. 1  
Jessamine County Health Department

**Lincoln County**

City of Stanford  
City of Crab Orchard  
City of Eubank  
McKinney Water District  
Southern Madison Water District  
Lincoln County Health Department

**Madison County**

County of Madison  
City of Richmond  
Madison Co. Health Department  
Richmond Utilities  
Madison County Utilities District  
Kirksville Water Association  
Northern Madison Sanitation District  
Northern Madison Water Association

**Mercer County**

County of Mercer  
City of Harrodsburg  
City of Burgin  
Mercer County Health Department

**Nicholas County**

County of Nicholas  
City of Carlisle  
Nicholas County Sanitation District #2  
Nicholas County Health Department  
Nicholas County Water District

**Powell County**

County of Powell  
City of Stanton  
City of Clay City  
Beech Fork Water Commission  
Powells Valley Water District  
Powell County Health Department  
Red River Wastewater Authority

**Scott County**

Scott County Health Dept.

**Woodford County**

County of Woodford  
City of Versailles  
South Woodford Water District  
Woodford County Health Department

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**Consideration of the Minutes of the July 18, 2014 Council Meeting**

A quorum was not present so minutes from the April 17, 2015 meeting could not be voted on and approved.

**Reports from Council Members**

- Mr. Ed Fortner with Berea Municipal Utilities reported that the Terrill Branch project was about to be closed out. The utility recently received their as-builts on the completed project and a public hearing to close out the CDBG had been scheduled. It was a four year project and Mr. Fortner was happy to see it finished.
- Mr. Bob Peterson with Frankfort Sewer reported that their 10MG equalization basin was constructed minus a few punch list items. The new facility was constructed in time to capture the most recent rain event and worked great.
- Ms. Cassie Felty with LFUCG reported on the first concrete pour for LFUCG's first equalization basin. She stated that the first pour took 130 concrete trucks (1,300 cubic yards of concrete!) and that everything went smoothly. There have been 2 more pours since then and the fourth and final pour will occur on August 22 and consist of 175 trucks pouring 1,750 cubic yards. The tank will hold 22 million gallons upon completion.
- Mr. Bill Payne with Lincoln County Sanitation District reported that the District is wrapping up the acquisition of approximately 150 easements and the purchase of 4 pump station properties. He said that 10% of the easements resulted in condemnation. Currently, the District is working with Rural Development on a date to advertise for bids but are hoping for September.
- Mr. Charlie Boland with Kentucky American Water reported that special sonic buoys will be released into the reservoirs to help combat harmful algal blooms and preserve water quality.

**GUEST PRESENTATIONS**

The Council welcomed guest speaker, Donna Marlin McNeil from Kentucky Rural Water Association. She spoke about upcoming events and training opportunities as well as services offered:

- Annual Conference August 24 – 26<sup>th</sup> here in Lexington, CE credits have been approved
- Compliance Check program – KRWA helps utilities deal with all things regulatory. Different packages include: compliance checking, record keeping and CCR hosting
- Ditch the Desk – training for operators, managers and supervisors on September 16 and 17 in Frankfort. KRAW is also working on training for KIA project development and execution and PSC compliance trainings
- Cold Weather Water Summit – to h
- Sign up for the KRWA eNews letter. It's Free! <http://www.krwa.org/krwa-enews/>

**OLD BUSINESS**

- Ms. Leverenz provided an update on the annual utility system visits. She thanked everyone for their patience and willingness to meet with her. She also explained a new mapping requirement that was added to the Clean

Water Act (and it is anticipated to be added to the Drinking Water Act later this year). Systems should work with their area coordinators to break up their systems as they see fit in order to plan more effectively for future projects. How each system is divided up is completely up to the utility. Samantha Myers with BGADD will be contacting each system to complete their assessment areas.

### **NEW BUSINESS**

- Since a quorum was not present no new or amended projects were approved at the July 17 meeting. New and amended profiles will be reviewed and voted on at the October 16, 2015 meeting.
- The next item on the agenda addressed final recommendations for an updated ranking criteria for SRF projects. Ms. Leverenz stated that she believed it was the best ranking criteria of all the Area Water Management Councils and encouraged those present to spread the word. Since a quorum was not present final recommendations were not voted on and will be reviewed and voted on at the October 16, 2015 meeting.

### **Other/Questions/Comments/Further Discussion**

The next meeting will be Friday, October 16, 2015 at 9:30 a.m.

## Amended Project Profiles

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### Anderson County

**Project Name:** Lawrenceburg - Alton Vacuum Sewer System Replacement Phase 4

**Project Number:** sx21005006

**Engineer:** Monty Rhody, City of Lawrenceburg

**Cost Estimate:** \$1,670,000

**Funding Committed:** \$0

**Project Description:** This project consists of replacing an existing failed vacuum sewer system with a low pressure sewer system. There will be approximately 27,000 feet of 3" and 2" force main, 15,000 feet of 1.25" force main and 150 simplex grinder stations. The existing vacuum sewer system was installed in the 1970's and has never operated properly.

The environmental protection agency has recognized that this is a failed technology and previously awarded the community a grant in the amount of \$2,000,000 which was used to construct phase 2 and phase 3 portions. The previous phases served approximately 300 households. This project, which is phase 4, will provide a reliable sewer collection system. Currently we are experiencing many failures due to age of the system and limitations of the system design. This phase will serve 205 households.

*Update to narrative and number of customers served by project.*

### Bourbon County

**Project Name:** City of Paris Amr System Upgrade (Automatic Meter Read) Project

**Project Number:** wx21017011

**Engineer:** Mark Askin, Strand Associates

**Cost Estimate:** \$100,000

**Funding Committed:** \$0

**Project Description:** Change water meters to enable drive by reading.

*Status Change – Project is under construction.*

### Estill County

**Project Name:** Wisemantown Sewer Extensions

**Project Number:** sx21065002

**Engineer:** Robert Williams, Bell Engineering

**Cost Estimate:** \$3,800,000

**Funding Committed:** \$2,300,000

**Project Description:** This project is comprised of the construction of gravity sewers, a force main and a lift station to serve the Wisemantown community of Estill county. The project will deliver sewage to the new Irvine Municipal Utilities sewage plant via a lift station and force main across the Kentucky River. Wisemantown residents are currently on septic systems or a small package sewage plant that serves a mobile home park.

*Budget, impacts, mapping updated.*

### Franklin County

**Project Name:** Rolling Acres I&I Phase 1

**Project Number:** sx21073067

**Engineer:** Angela Johnston, Qk4, Inc.

**Cost Estimate:** \$2,950,030

**Funding Committed:** \$1,500,000

**Project Description:** The Rolling Acres neighborhood sewer system experiences excessive infiltration and inflow during wet weather events causing sanitary sewer overflows. The Rolling Acres I&I Phase 1 project area includes approximately 33,000 linear feet of collection sewer. The project shall include replacement of approximately 1,600 linear feet of 8-inch sewer including replacement of 6 manholes, replacement or repair of a 20 foot long retaining wall, sliplining approximately 10,511 linear feet of sewer, approximately 52 sewer main point repairs, and replacement of approximately 90 property service connections including cleanouts.

*Updated narrative, budget and mapping to match clearinghouse.*

**Project Name:** Phase I Collection System & 0.75 MGD WWTP

**Project Number:** sx21073029

**Engineer:** Ray Bascom, HMB

**Cost Estimate:** \$12,250,000

**Funding Committed:** \$1,423,000

**Project Description:** This project will provide new public sanitary sewer service to approximately 821 customers (436 in Coolbrook, 135 in Edgewood and 250 equivalent customers at Stewart Home School) in the area of Franklin County south of I-64. This area is currently served by privately owned wastewater systems that have a history of poor performance and violations with DOW. The project includes construction of 0.75 MGD WWTP, three (3) large pump stations, approximately 11,000 LF of associated force mains, approximately 9,300 LF of 10", 12" and 16" interceptor sewer with approximately 40 associated manholes. This is the first phase of a larger, long-term project.

The project will remove three (3) existing package WWTP's and replace them with the above mentioned pump stations to convey sewage to the proposed new WWTP. The City of Frankfort has given preliminary indication of willingness to discuss entering into agreement to operate and maintain the proposed infrastructure on Farmdale Sanitation District's behalf. This project is in accordance with the 2009 DOW approved Wastewater Facility Plan.

*Updated narrative, budget, impacts, mapping.*

**Project Name:** Kentucky Avenue Interceptor Renovation

**Project Number:** sx21073059

**Engineer:** Michael Davis, Strand Associates

**Cost Estimate:** \$4,905,000

**Funding Committed:** \$4,905,000

**Project Description:** The Kentucky Avenue Interceptor is a major component in Frankfort's wastewater collection and conveyance system. The Interceptor receives all of Frankfort's wastewater and conveys it to the wastewater plant for treatment. The interceptor is comprised of two parallel pipe systems. One pipe was constructed in the mid 1950s using vitrified clay pipe. The second pipe was constructed in the early 1980s using reinforced concrete pipe. This major interceptor has significant deterioration. Additionally, increased interceptor capacity is required by the CSO Long Term Control Plan. This project constructs a new interceptor sewer to replace the existing interceptor, and renovates a portion of the existing interceptor that will remain in service. The project consists of approximately 4300 feet of parallel sewer with associated manholes and interconnects. Approximately 5,000 feet of existing interceptor will be rehabilitated.

*Status change – project is under construction.*

**Project Name:** Two Creeks #2 Pump Station & Force Main Replacement

**Project Number:** sx21073012

**Engineer:** Richard Smith, Quest

**Cost Estimate:** \$1,200,000

**Funding Committed:** \$200,000

**Project Description:** Wastewater collection system project. Includes replacement of existing two creeks #2 pump station and installation of 1300 LF of 6" force main to replace existing 4" force main. Project will reduce and potentially eliminate the sanitary sewer overflow (SSO) at the two creeks #2 pump station.

*Status change – project is under construction.*

**Project Name:** Bon Air Pump Station & Force Main Replacement

**Project Number:** sx21073006

**Engineer:** Richard Smith, Quest

**Cost Estimate:** \$2,300,000

**Funding Committed:** \$2,300,000

**Project Description:** Wastewater collection system project. Includes upgrade of existing Bon air pump station and installation of 6700 LF of 18" force main to replace existing 12" force main. Project will reduce and potentially eliminate three sanitary sewer overflows (ssos) in the two creek area.

*Status change – project is under construction.*

## **Mercer County**

**Project Name:** Gwinn Island Road Sanitary Sewer Extension

**Project Number:** SX21167019

**Cost Estimate:** \$1,525,676

**Funding Committed:** \$0

**Project Description:** Gwinn Island Road is located in northeast Boyle County within the Mocks Creek watershed, along the Herrington Lake shoreline. The project scope will include the construction of a low pressure collection system consisting of approximately 10,000 LF of small diameter force main, along with the installation of approximately 65 residential grinder pump stations to serve the existing homes located along the road. In addition to providing service to the homes, the project will also include service to the Gwinn Island Marina and Resort. Gwinn Island Marina and Resort consists of a full service marina with approximately 50 boat slips, 30 rental cabins, and an RV Park. The project will allow the marina to expand the RV Park, as well as increase the occupancy rate of the cabins year round. Most importantly, the project will eliminate aged and inadequate onsite septic systems currently serving the properties, reducing the infiltration of sewage to the watershed, while enhancing the water quality of the lake, as well as protecting the public health of residents and visitors to the area. Herrington Lake serves as the drinking water source for communities located in Boyle, Mercer, Garrard and Lincoln Counties.

The project scope will also include a 2,500 LF extension of the existing low pressure collection system along Cold Springs Drive in Southern Mercer County to serve 14 properties currently served by septic tanks. In addition to Cold Springs Drive, 7 properties located along Beaumont Avenue in Harrodsburg will receive sanitary sewer service from the existing low pressure collection system. Approximately 1,300 LF of 1.25" force main will be installed to remove the septic tanks from service.

*Updates to narrative, budget, mapping.*

## **Nicholas County**

**Project Name:** NCWD - Headquarters Road and Stoney Creek Road Improvements

**Project Number:** wx21181007

**Engineer:** Joseph Sisler, Sisler-Maggard Engineering

**Cost Estimate:** \$185,000

**Funding Committed:** \$0

**Project Description:** This project is a continuation of a comprehensive line improvement and replacement project for Nicholas County Water District. This is the 10th phase of work being completed. Previous work was completed with both an RD grant and loan. Under this 10th phase of work, NCWD will replace approximately 10,600-ft of 4-inch asbestos-cement pipe with new 4-inch PVC pipe along Headquarters road. This will help eliminate water loss and provide improved service to 35-underserved customers. The second part of the project involves extending 2,600-ft of new 4-inch PVC waterline along Stoney Creek Road. This new line extension will provide new service to 2 unserved customers.

*Status Change – Project is under construction.*

## **Jessamine County**

**Project Name:** Wilmore WWTP Sludge Handling Improvements

**Project Number:** sx21113025

**Engineer:** Alan Bryan, GRW

**Cost Estimate:** \$3,710,000

**Funding Committed:** \$0

**Project Description:** This project will add new sludge handling facilities at the Wilmore wastewater treatment plant. This project will replace the old deteriorating aerated sludge holding basin and eliminate the annual cost of having a contractor come to the site to and remove the sludge. Facilities include new sludge holding tanks, aeration equipment, sludge pumps, press and associated appurtenances. This project will also replace existing chemical feed systems, add chemical feed facility to aid in the removal of phosphorus and repair screenings dumpster room.

This project was formerly a component of Wilmore project sx21113003 but the City decided to pursue it as its own project.

The City of Wilmore is at latitude 37° 51' 43" and longitude 84° 39' 41" in Jessamine County, Kentucky. The project planning area includes all of the area within the city limits as well as surrounding, adjacent areas. The current area within the city limits contains 1,989 acres, and the total planning area is 5,549 acres. The actual project site is the WWTP, which discharges to town branch, a tributary of Jessamine creek, located in the lower Kentucky river basin. The City is currently in the process of acquiring 8 acres of property.

*Updated narrative, budget, plans and specs.*

## **Mercer County**

**Project Name:** MCSD - Kennedy Bridge Road Sanitary Sewer Improvements Project

**Project Number:** sx21167021

**Engineer:** Liz Dienst, Strand Associates

**Cost Estimate:** \$848,000

**Funding Committed:** \$0

**Project Description:** The project consists of new sanitary sewer collection mains which will be extended from an existing system in Chimney Rock, a densely populated area of the Herrington Lake watershed. Portions of the existing collection system may also be upgraded. The existing collection system is connected to a privately owned package treatment plant. The KPDES permit for the plant indicates that capacity is available to provide treatment for additional properties located in the vicinity of the plant. The plant discharge is currently in compliance, but the plant is aging and requires renovation to maintain reliable operation, therefore the scope will include an upgrade to the existing package treatment plant. This upgrade will include new structure and new equipment. The areas to receive new sewer service include 1599 Kennedy Bridge Road, a mobile home park consisting of 25 lots, located in eastern Mercer County, on the Herrington Lake shoreline. The properties are currently served by inadequate and failed septic systems that have resulted in legal proceedings being initiated by the Mercer County Board of Health. Property owners have been found to be in violation of state health code regulations, as well as local ordinances enacted to protect the public health of citizens, Also to be included in the project scope is Maple Hill Subdivision consisting of 9 single family homes currently served by onsite septic systems and an apartment complex located at 1603 Kennedy Bridge Road, consisting of 15 residential apartment units served by an onsite septic system.

*Updated budget, funding sources.*

## **Powell County**

**Project Name:** Water Treatment Plant Floor Repair

**Project Number:** wx21197011

**Engineer:** Robert Williams, Bell Engineering

**Cost Estimate:** \$1,186,500

**Funding Committed:** \$20,000

**Project Description:** The Beech Fork Water Treatment Plant is experiencing structural deterioration in the floor slab which may lead to operational problems. This project will involve the construction of an additional structure to house the electrical switch gear, chlorine injection and storage equipment and fluoride storage and injection equipment. After construction and relocation of the electrical and chemical components, the condition of the existing water treatment plant structure will be addressed to insure that the water treatment plant will continue to provide reliable service.

*Status Change – Project is under construction.*

## **New Project Profiles**

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### **Lincoln County**

**Project Name:** City of Hustonville - Water System Improvements - Phase II

**Project Number:** wx21137050

**Engineer:** Phillips Meador, Kenvirons

**Cost Estimate:** \$628,000

**Funding Committed:** \$50,000

**Project Description:** This project will replace undersized 6" and 4" water lines with 8" and 6" looped water lines to provide adequate pressure and volume for existing services, as well as fire protection for more customers in the north Hustonville community service area.

**2015 Ranking Methodology**  
**Bluegrass Area Water Management Council**  
**For Water and Wastewater Projects**

The Bluegrass Area Water Management Council examined the following criteria in the ranking of water and wastewater projects for 2015:

To that end, a scoring matrix was developed for the following six categories:

1. **Project Type:** This category was broken down into three sections. More credit was given for projects that required new capital infrastructure. Less credit was given for projects that are considered improvement or replacement capital infrastructure. Projects that were considered to be maintenance were given the least amount of credit. The maximum possible score for this category is 20 points.

	<b>Description</b>	<b>Points Available</b>
New Capital	e.g. Extension of new lines to previously unserved customers	14 - 20
Improvement/Replacement Capital	e.g. Pump station upgrades	7 - 13
Maintenance	e.g. Tank maintenance, meter replacement	0 - 6

2. **Threshold:** The size of the utility should be taken into account when considering the content/cost of the project. The maximum score for this category is 20 points.

	Number of Connections	Minimum Project Cost Required to Meet Threshold
Small Utilities	Less than 3,300	\$50,000
Medium Utilities	3,301 – 10,000	\$250,000
Large Utilities	Greater than 10,001	\$500,000

Does not meet threshold	0 Points
Meets threshold	20 points

3. **Cost Effectiveness:** Is this project cost effective? What is the cost per household for this project? The maximum possible score for this category is 20 points.

Cost per household is less than \$5,000	16 – 20 points
Cost per household is between \$5,001 and \$10,000	11 – 15 points
Cost per household is between \$10,001 and \$15,000	6 – 10 points
Cost per household is greater than \$15,001	0 – 5 points

4. Regionalization: Projects in which inter-local cooperation could in some way be demonstrated would receive more consideration than projects that were simply local in nature. Regional projects in general, tend to promote efficiency and effectiveness in utility delivery service. Projects that satisfy the following categories will score points accordingly. The maximum possible score for this category is 10 points.

This project eliminates existing facilities or redundancy	2
This project serves more than one system/city/county (would this include interconnectivity or should that be its own category?)	2
This project is for new construction	2
This project will replace/rehab existing facilities	2
This project has an MOU or inter-local agreement in place	2

5. Local Rankings: Planning units are the first step in the project ranking process. These smaller meetings composed of two and three county groups are able to identify local priorities better than the region as a whole. Things to consider during the local ranking meeting should include but are not limited to: Is the project construction ready? Have other funding sources already been committed? Is utility or community currently under any kind of enforcement action? A project that was first-ranked at its local ranking would receive 30 points in this scoring category; a second-ranked project, 28 points; a third-ranked project, 26 points, etc, and finally, a tenth-ranked project, 12 points.
6. Executive Council Ranking: The Water Management Executive Council will review submitted projects. Prior to submission to the Executive Council all projects will have been scored based on the above criteria.

A given project, if top-ranked in every category, could score 120 points.

Executive Council recommendations to the full Bluegrass Water Management Council could be modified by the full Council.





