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ATTORNEYS

John E. Selent
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July 30, 2007

RECEIVED

JUL 30 2007

**PUBLIC SERVICE
COMMISSION**

VIA HAND DELIVERY

Hon. Beth O'Donnell
Executive Director
Public Service Commission
211 Sower Blvd.
P. O. Box 615
Frankfort, KY 40601

***Re: In the Matter of: Application of Kentucky-American Water Company, a/k/a
Kentucky American Water for Certificate of Convenience and Public Necessity
Authorizing Construction of Kentucky River Station II ("KRS II"), Associated
Facilities, and Transmission Line, before the Public Service Commission of the
Commonwealth of Kentucky, Case No. 2007-00134***

Dear Ms. O'Donnell:

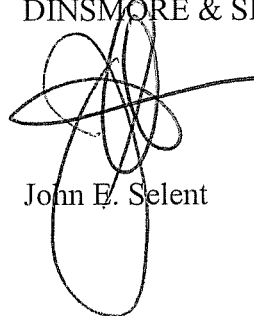
With this letter I have enclosed for filing the original and 10 copies of the following two documents.

- (1) Motion of the Louisville Water Company to Intervene in the above-styled proceeding, and;
- (2) The Prefiled Verified Direct Testimony of Gregory C. Heitzman, President of the Louisville Water Company.

Thank you and if you have any questions with respect to this matter, please call me.

Very truly yours,

DINSMORE & SHOHL LLP



John E. Selent

JES/bmt
Enclosures
cc: All parties of record

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

**Application of Kentucky-American Water)
Company, a/k/a Kentucky American Water)
for Certificate of Convenience and Public)
Necessity Authorizing Construction of Kentucky)
River Station II ("KRS II"), Associated)
Facilities, and Transmission Line)**

Case No. 2007-00134

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**PUBLIC SERVICE
COMMISSION**

**MOTION OF LOUISVILLE WATER COMPANY
FOR FULL INTERVENTION**

Louisville Water Company, by counsel and pursuant to 807 KAR 5:001 § 3(8), hereby moves the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for full intervention in this matter. This is a very significant motion in a very significant proceeding, and the grounds in support of Louisville Water Company's motion are set forth below.

1. The full name and address of Louisville Water Company is Louisville Water Company, 550 South Third Street, Louisville, Kentucky 40202. Louisville Water Company is a municipally-owned water utility that provides water services to more than 850,000 people in Louisville Metro and parts of Oldham and Bullitt counties. It delivers, on average, 130 million gallons of water per day and has a capacity of 240 million gallons per day. In addition to retail customers, Louisville Water Company wholesales water to West Shelby Water District, North Shelby Water Company, North Nelson Water District, Taylorsville, Mount Washington, and Lebanon Junction.

2. In order to serve its customers, Louisville Water Company draws water from the Ohio River at three points: the raw water pump station at Zorn Avenue and River Road, the B.E. Payne Pump Station northeast of Harrods Creek, and from a riverbank filtration well at the Payne Plant.

The water is treated at two locations: The Crescent Hill Treatment Plant and the B.E. Payne Treatment Plant.

3. More information about Louisville Water Company is available at <http://www.louisvillewater.com>.

4. On July 17, 2007, Louisville Water Company received an open records request pursuant to which documents were requested to be produced in the record of this matter.

5. On July 23, 2007, Louisville Water Company requested an extension of time within which to respond to the previously identified open records request.

6. Pursuant to the previously identified open records request and request for extension of time, Louisville Water Company is producing the requested documentation.

I. Standard for Full Intervention.

7. Pursuant to 807 KAR 5:001 § 3(8), a person moving for full intervention shall be granted such status if the Commission makes either of the following determinations: (i) the movant "has a special interest in the proceeding which is not otherwise adequately represented;" or (ii) the movant "is likely to present issues or develop facts that assist the commission in fully considering the matter without unduly complicating or disrupting the proceedings[.]" *Id.*

II. Louisville Water Company has a special interest in this proceeding that is not otherwise adequately represented.

8. Louisville Water Company has a special interest in this proceeding because the Commission made a broad open records request, the response to which represents approximately 1000 pages of the Louisville Water Company documents. This document production includes high-level presentations and analyses that can be fully understood only with further explanatory detail. Therefore, the Louisville Water Company has a special interest in ensuring its documentation is understood accurately and in the context in which it was prepared.

9. As the documents being produced will show, Louisville Water Company has conducted studies and analyzed whether (and how) either it or the applicant Kentucky-American Water Company ("KAWC") could serve the ongoing and growing water needs of the Lexington Fayette Urban County Government ("LFUCG") and surrounding areas of interest (the "Bluegrass Region").

10. Accordingly, Louisville Water Company's special interest in this proceeding is to help the Commission understand the Louisville Water Company documents it is receiving pursuant to the Open Records Act. The Commission's full and accurate understanding is critical to the decision the Commission must make in this matter, that is, whether the interests of the Commonwealth and the Bluegrass Region are best served by granting KAWC the certificate of convenience and public necessity ("CCPN") for which it has applied. This is especially true in light of potential alternative solutions to meet the growing water needs of the Bluegrass Region.

11. No other water utilities with the accurate and contextual knowledge of these documents have intervened in this matter.

12. Likewise, Louisville Water Company's special interest in this proceeding is not adequately represented by any other party to this proceeding.

13. Therefore, the Commission should grant Louisville Water Company's motion for intervention.

III. Louisville Water Company's intervention in this proceeding is likely to present issues or develop facts that will assist the Commission in fully considering the matter without unduly complicating or disrupting the proceeding.

14. The Louisville Water Company is a large, well-managed water utility with significant expertise in providing water services to large population centers at reasonable rates and with minimal environmental impact. In light of its unique perspective, expertise, and capabilities,

Louisville Water Company's intervention in this matter is also likely to present issues or develop facts that will assist the Commission in fully considering the matter.

15. As noted above, Louisville Water Company has studied and analyzed whether (and how) either it or KAWC could serve the ongoing and growing water needs of the Bluegrass Region.

16. These studies and analyses constitute the basic subject-matter of the open records requests to which Louisville Water Company will be responding.

17. Therefore, Louisville Water Company's intervention will be crucial to helping explain the context and purpose of the various documents that are being produced.

18. Not only will this participation be crucial to the development of facts that will assist the Commission in determining whether the proposed CCPN should be granted, it could also help present other issues that may merit consideration as the Commission evaluates the application.

19. For this reason, full intervention will not unduly complicate this proceeding; instead, full intervention will permit the Commission to efficiently consider all relevant issues.

20. Furthermore, full intervention will not disrupt the proceeding, as it will permit the Commission and the parties to timely and adequately address the new facts and issues that may be raised by the documents to be produced by the Louisville Water Company.

21. Therefore, the Commission should grant Louisville Water Company's motion for full intervention.

IV. Conclusion.

22~~4~~. As a Kentucky company, Louisville Water Company understands and appreciates the importance of promptly finding the best solution to the growing water demand in the Bluegrass Region. It is in the unique position to help the Commission address this pressing issue. It is in this spirit that Louisville Water Company seeks full intervention in this matter. For this and the

foregoing reasons, the Louisville Water Company respectfully requests that the Commission grant its motion for full intervenor status.

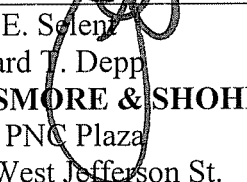
WHEREFORE, Louisville Water Company respectfully requests that the Commission grant its motion for a full intervention in this proceeding.

Respectfully submitted,



Barbara K. Dickens
Vice President, General Counsel
Louisville Water Company
550 South Third Street
Louisville, KY 40202
tel: (502) 569-0808
fax: (502) 569-0850

-and-



John E. Selent
Edward T. Depp
DINSMORE & SHOHL LLP
1400 PNC Plaza
500 West Jefferson St.
Louisville, Kentucky 40202
tel: (502) 540-2300
fax: (502) 585-2207

COUNSEL TO LOUISVILLE WATER COMPANY

CERTIFICATE OF SERVICE

It is hereby certified that copies of the foregoing motion for full intervention have been served by first-class United States mail, sufficient postage prepaid, upon all parties of record in this matter.



Counsel to Louisville Water Company

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**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

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**PUBLIC SERVICE
COMMISSION**

**PREFILED DIRECT TESTIMONY OF GREG HEITZMAN
ON BEHALF OF
LOUISVILLE WATER COMPANY**

July 30, 2007

Counsel to Louisville Water Company:

John E. Selent
Edward T. Depp
DINSMORE & SHOHL LLP
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500 West Jefferson St.
Louisville, KY 40202
(502) 540-2300 (tel)
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and

Barbara K. Dickens
Vice President and General
Counsel
Louisville Water Company
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**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

Application of Kentucky-American Water)	
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River Station II ("KRS II"), Associated)	
Facilities, and Transmission Line)	

**PREFILED DIRECT TESTIMONY OF GREG HEITZMAN
ON BEHALF OF
LOUISVILLE WATER COMPANY**

1 **Q. WHAT IS YOUR NAME?**

2 A. My name is Greg Heitzman.

3 **Q. WHO IS YOUR EMPLOYER?**

4 A. Louisville Water Company.

5 **Q. WHAT IS YOUR POSITION WITH LOUISVILLE WATER COMPANY?**

6 A. I am Senior Vice-President and, effective August 1, 2007, will be President of the Louisville
7 Water Company.

8 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND PRIOR**
9 **PROFESSIONAL EXPERIENCE.**

10 A. My educational background and prior professional experience is described in the curriculum
11 vitae attached hereto as Exhibit 1.

12 **Q. WHAT ARE YOUR DUTIES AND RESPONSIBILITIES AT LOUISVILLE WATER**
13 **COMPANY?**

14 A. As President, I will be responsible for overseeing the technical, financial, and managerial
15 condition of the company so that it is able to continue providing the highest quality of water to its

1 customers. I will report directly to the Board of Directors of the Company with respect to these
2 issues.

3 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY TODAY?**

4 A. I am here to testify that the Louisville Water Company has an alternative to meeting the
5 water demand needs of the Bluegrass Region ("Bluegrass Region") proposed to be served by the
6 Kentucky River Station II treatment plant for which Kentucky-American Water Company
7 ("KAWC") seeks a certificate of convenience and public necessity in this proceeding.

8 **Q. WHAT IS THAT PROPOSED SOLUTION TO THE KRS II PLANT?**

9 A. On July 10, 2007, the Louisville Water Company made a presentation to the Lexington -
10 Fayette Urban City Council regarding this very issue. A copy of the Power Point presentation (the
11 contents of which are true and accurate) made that day is attached hereto, for reference, as Exhibit 2.
12 In short, however, the proposal is that Louisville Water Company would construct a 36 inch pipeline
13 to be built from Jefferson County, Kentucky to Fayette County, Kentucky. The pipeline would
14 follow the Interstate-64 corridor, and it would supply sufficient water to meet the needs of the
15 Bluegrass Region.

16 **Q. FROM WHERE DOES LOUISVILLE WATER COMPANY PROPOSE TO DRAW**
17 **SUFFICIENT WATER TO MEET THE DEMAND OF THE BLUEGRASS REGION?**

18 A. Louisville Water Company has a virtually unlimited source of water supply in the Ohio
19 River, with enough reserve capacity to supply the current and future water supply deficits of the
20 Bluegrass Region. Nearly ninety billion gallons of water per day pass Louisville Water Company's
21 two treatment plants. Together, those treatment plants have a current capacity of 240 million gallons
22 per day ("MGD"), and those plants can be easily expanded to a capacity of 300 MGD. Compared to
23 a historical maximum day of pumping (205 MGD in 2005), Louisville Water Company has existing
24 reserve capacity of 35 MGD, and that reserve capacity can easily be increased to 95 MGD.

1 Accordingly, Louisville Water Company clearly has sufficient capacity to meet the additional water
2 needs of the Bluegrass Region.

3 **Q. PLEASE DESCRIBE LOUISVILLE WATER COMPANY'S TECHNICAL AND**
4 **MANAGERIAL CAPACITY TO MEET THE ADDITIONAL WATER NEEDS OF THE**
5 **BLUEGRASS REGION.**

6 A. In addition to the abundant processing capacity described above, Louisville Water Company
7 is in a unique position to provide this alternative solution. Louisville Water Company is an industry
8 leader in water quality and treatment research, and it was instrumental in the establishment of the
9 Partnership for Safe Drinking Water with the USEPA. Louisville Water Company is also an
10 industry leader in drinking water quality, with performance consistently exceeding regulatory
11 standards. Louisville Water Company is a recognized industry leader in infrastructure rehabilitation
12 and renewal, and it is accordingly benchmarked by utilities from around the world. Moreover,
13 Louisville Water Company is an industry leader in customer satisfaction, with consistently high
14 ratings for quality, service, and value.

15 **Q. PLEASE DESCRIBE LOUISVILLE WATER COMPANY'S FINANCIAL CAPACITY**
16 **TO MEET THE ADDITIONAL WATER NEEDS OF THE BLUEGRASS REGION.**

17 A. Louisville Water Company is financially strong. Its revenue bonds are rated AA+ by
18 Standard and Poor's Corporation and Aa1 by Moody's Investors Service. These ratings are among
19 the highest in the United States. Louisville Water Company has the capacity to finance the capital
20 improvements that will be necessary to extend service to the Bluegrass Region. It also has the
21 organizational flexibility to enter into any of a wide range of partnership opportunities that may be
22 advantageous to serving the Bluegrass Region.

23 **Q. PLEASE DESCRIBE THE PROPOSED RATE IMPACT THAT THIS**
24 **ALTERNATIVE PROPOSAL IS LIKELY TO HAVE UPON CUSTOMERS IN THE**
25 **BLUEGRASS REGION?**

1 A. We believe this alternative proposal will result in lower water rates than those that will result
2 from the proposed Kentucky River Station II construction. Louisville Water Company establishes
3 its water rates on cost-of-service principles established by the American Water Works Association.
4 Louisville Water Company water rates are among the lowest in the Commonwealth, with a typical
5 residential monthly water bill of \$18.40 for 6,000 gallons of consumption (based on 2007 rates).
6 The company's standard wholesale rate is \$1.71 per thousand gallons (based on 2007 rates).

7 **Q. PLEASE DESCRIBE THE CONCLUSION(S) THAT YOU BELIEVE SHOULD BE**
8 **DRAWN FROM THE DOCUMENTS ATTACHED HERETO AS EXHIBIT 2 OF YOUR**
9 **TESTIMONY.**

10 A. Based on the documents attached hereto as Exhibit 2, I believe the Louisville Water
11 Company is able to provide the best solution to the water supply need of the Bluegrass Region. The
12 water needs of the Bluegrass Region clearly require additional supply of potable water, and the
13 Louisville Water Company is in a unique position to meet this need with less cost to end-user
14 customers, less environmental impact, all the while presenting a more permanent solution than the
15 proposed Kentucky River Station II project. Therefore, I believe we have critical information to
16 assist the Commission in determining whether the public convenience and necessity of the
17 Commonwealth requires the construction of the proposed Kentucky River Station II. The
18 conclusions are further explained and supported by the attached documentation in Exhibit 2.

19 **Q. WHAT IS THE BASIS FOR YOUR TESTIMONY WITH REGARD TO EXHIBIT 2?**

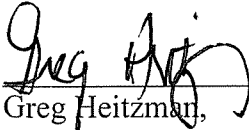
20 A. My testimony is based upon both personal knowledge and the performance of my previously-
21 described duties and responsibilities as President of Louisville Water Company.

22 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

23 A. Yes.

1 VERIFICATION

2 I hereby verify that the foregoing testimony is true and accurate to the best of my
3 knowledge and belief.

4 
5 _____
6 Greg Heitzman,
7

President of Louisville Water Company

COMMONWEALTH OF KENTUCKY)
)SS
COUNTY OF JEFFERSON)

SUBSCRIBED, SWORN TO AND ACKNOWLEDGED before me by GREG HEITZMAN,
to me known, in his capacity as President of Louisville Water Company, this 30th day of July, 2007.

My commission expires: August 2, 2011.



Notary Public

CERTIFICATE OF SERVICE

It is hereby certified that the Prefiled Direct Testimony of Greg Heitzman on behalf of Louisville Water Company was served via first-class United States mail, sufficient postage prepaid, on the following individuals this 30th day of July, 2007:

Honorable David Jeffrey Barberie
Corporate Counsel
Lexington-Fayette Urban County
Government
Department of Law
200 East Main Street
Lexington, KY 40507

Honorable David F. Boehm
Attorney at Law
Boehm, Kurtz & Lowry
36 East Seventh Street
2110 CBLD Building
Cincinnati, OH 45202

Thomas J. FitzGerald
Counsel & Director
Kentucky Resources Council, Inc.
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Honorable Lindsey W. Ingram, III
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300 West Vine Street
Suite 2100
Lexington, KY 40507-1801

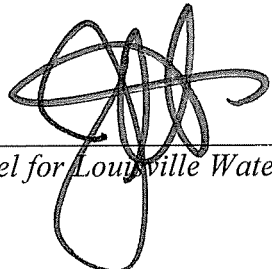
Kentucky River Authority
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Frankfort, KY 40601

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Frankfort, KY 40601-8204

Honorable Damon R. Talley
Attorney at Law
P.O. Box 150
Hodgenville, KY 42748-0150

Honorable A.W. Turner, Jr.
Attorney at Law
Kentucky-American Water Company aka
Kentucky
2300 Richmond Road
Lexington, KY 40502



Counsel for Louisville Water Company

3003 Colonial Hill Road
Louisville, Kentucky 40205
Home 502-458-8621
Work 502-569-3681
E-mail: gheitzman@yahoo.com

Gregory C. Heitzman, P. E.

Career Summary

Senior operations and engineering executive with 25 years experience in the water industry. Education includes an MBA and undergraduate and graduate degrees in Civil Engineering. Progressed from project engineering and capital planning roles to management of professional, technical, administrative and union staff. Senior management experience includes leading strategic planning, engineering, operations, customer service and execution of the annual capital improvement program. Extensive involvement and advocacy for water system regionalization and the renewal of America's aging drinking water infrastructure.

Summary of Qualifications

THE LOUISVILLE WATER COMPANY

2006 - 2007

Senior Vice President Operations & Chief Engineer

Direct engineering, planning, operations, and customer service for a regional water utility with 280,000 customers, serving a population of 850,000. Direct staff of 325 management, professional, technical, clerical and union employees. Served as Chief Engineer from 1991 to 2006. Selected achievements:

- Led a strategic planning team of Board members and senior management in development of a new top line growth strategy to expand water utility service in the region. The plan identifies prime markets for growth, including mergers, acquisitions, and new product development.
- Led senior management and staff in the preparation of the \$130 million Capital and O&M budgets.
- Completed a 15 year, \$150 million program to renew over 500 miles of aging cast iron water mains and lead service lines installed prior to 1935. The program is considered "best-in-class" for renewal of aging water infrastructure in North America.
- Presently directing a \$45 million, 60 MGD Riverbank Filtration Tunnel project for the BE Payne Water Treatment Plant to improve water quality and meet future drinking water regulations.
- Presently implementing an automated meter reading pilot and evaluating monthly billing to improve customer service and enhance operating efficiencies for water metering and billing.

Vice President Operations & Chief Engineer

2001 - 2005

Directed operations, engineering and planning for production and distribution of water. Directed a staff of 225 management, professional, technical, clerical and union employees. Select achievements:

- Led a Board Committee on Advanced Water Treatment to select new technology for the 180 MGD Crescent Hill Water Treatment Plant to meet future drinking water regulations. Board accepted plan for pilot study in 2006 and implementation of advanced treatment from 2008 to 2012 at an estimated construction cost of \$232 million.
- Developed the strategy for merger and acquisition of Kentucky Turnpike Water District, Goshen Utilities, and Shepherdsville water systems, including due diligence, evaluation, contract preparation, and transition into Louisville Water operations.
- Completed the \$20 million upgrade of the BE Payne Water Treatment Plant, including plant expansion to 60 MGD, filter renovation, electrical switchgear, and emergency power generation.

- Completed a 10 year, \$60 million expansion of water service throughout un-served areas of Jefferson County. The program included planning, design and construction of the 150 mile network of distribution mains, storage tanks and pumping stations using a public participation process.
- Led the effort to create the Center for Infrastructure Research at the University of Louisville in 2001. The Center is a collaborative partnership between the University of Louisville and area utilities to pursue applied research for improving urban infrastructure. Since 2001, the Center has been awarded grants of \$2.5 million to improve aging urban infrastructure.

Vice President & Chief Engineer

1991 - 2000

Director of Infrastructure Core Business System, including engineering, project management, and construction administration of annual capital improvement program. Managed design and construction staff of 135 professional, technical, clerical and union employees. Select achievements:

- Planned, designed and implemented annual capital improvement program of \$65 million for upgrade of plant, transmission, and distribution facilities.
- Developed and led a partnership with Local Union 1683 to in-source metered service installations in new development. Since 1996, this program has reduced cycle time by 50 percent and saved developers and home builders nearly \$4 million in construction costs and fees.
- Participated in Project Greenfield with local utilities, developers and contractors to identify new methods to reduce cost and cycle time to provide utilities to new subdivisions.
- Negotiated an agreement with Louisville MSD for participation in the LOJIC Geographic Information System. Served on the LOJIC Policy committee for expanding LOJIC GIS to serve the region.
- Participated with Executive Leadership Team to author the Next Level Plan for Total Quality, including systems based management, quality of work life, partnership with employees, and empowerment.

Previous Engineering Positions

1982-1990

Various engineering and planning positions, including Assistant Chief Engineer, Principal Planning Engineer, Project Engineer, and Resident Construction Engineer. Duties included project management, engineering design, hydraulics, asset management and planning for annual CIP. Select achievements:

- Developed 15 year plan to replace and rehabilitate 500 miles of unlined cast iron water main, improving water quality and customer service, while reducing maintenance.
- Published various articles on infrastructure renewal and participated in industry research and expert workshops for water infrastructure renewal.
- Developed innovative methods for pipe replacement and rehabilitation.
- Developed the Company's facility management and automated mapping system.
- Developed a comprehensive distribution hydraulic model using KY Pipe.
- Designed and installed the Company's first Novell Local Area network and e-mail system for use in engineering, planning, automated mapping and facility management.

Education and Leadership Training

MBA - Master of Business Administration, University of Louisville, 1988, Louisville, KY

MSCE - Master of Science in Civil Engineering, University of Kentucky, 1982, Lexington, KY

BSCE - Bachelor of Science in Civil Engineering, University of Kentucky, 1980, Lexington, KY

- Developing the Strategic Leader, Center for Creative Leadership, 2006, Colorado Springs, CO
- Leadership Louisville, 2005, Louisville, KY
- Leadership Institute, Louisville Water Company, 2003, Louisville, KY
- Focus Louisville, 1998, Louisville, KY

Addendum 1

Board and Committee Appointments

Kentucky Infrastructure Authority (Director 2000-2007), appointed by Governor Patton and Governor Fletcher
University of Louisville, Center for Infrastructure Research Advisory Board (Director 2001-2006)
AWWARF Research Advisory Council Infrastructure Reliability Workgroup (2003 -2005, Chair 2003)
KIPDA Regional Water Management Council (Chair 2001-2002)
AWWA Water Utility Infrastructure Committee (Member 1995-2006, Chair 1995 -1997)
Kentuckiana Construction Users Council (Director 1995-2007, Chair 1997-1999, Treasurer 2002-2007)
Immanuel United Church of Christ Council (Trustee 2005)
Colonial Hill Neighborhood Association (Director 1996-2007)
Highland Community Ministries (Director 1993-2004, Administrative Division Chair 1999-2004)
Kentucky Society of Professional Engineers (Regional Vice President 1998-2001)
Louisville Chapter KSPE (President 1997, President-elect 1996, Vice President 1995, Treasurer 1993-1994)
Kentuckiana AutoCAD User Group (Charter President 1987-1989)

Professional Memberships

American Water Works Association/ AWWA Research Foundation
Kentucky Society Professional Engineers/National Society Professional Engineers
American Society of Civil Engineers
Kentucky Construction Users Council
Leadership Louisville Alumni Group
University of Kentucky Alumni Association
University of Louisville Alumni Association

Community Activities

LWC Metro United Way Campaign Chair (2003) and Volunteer (1997-2007)
LWC Fund for the Arts Campaign Chair (2004)
Water-for-People Golf Tournament Fund Raising Committee (1999, 2007)
Boy Scouts of America Fund Raising Volunteer (1992-2005)
Male High School Band Parents Association Volunteer (2004-2007)
St. Xavier High School Scholarship Endowment Fund Volunteer (2003-2007)
Immanuel United Church of Christ Sunday School Teacher (2004-2005)
Immanuel United Church of Christ Choir (1994-2005)
Highland Community Ministries Volunteer (1993-2004)
Colonial Hill Neighborhood Association (1996-2007)

Honors and Awards

KSPE Distinguished Service Award (1998, 2003)
KSPE Professional Development Award for Industry (1996)
Louisville Chapter KSPE Young Engineer of the Year (1994)
Licensed Professional Civil Engineer #14003 (Kentucky-1984)
Chi Epsilon Honor Society (1979)
Eagle Scout (1973)

Publications

Numerical Modeling of Surcharged Storm Sewer Systems, co-authored with Dr. Don J. Wood, Ninth International Symposium on Urban Hydrology, Hydraulics, and Sediment Control Proceedings, July 1982. University of Kentucky, Lexington, KY.

Geo-based Micro CAD Applications in Water Main Replacement and Rehabilitation Selection, AWWA Seminar Proceedings, AWWA Distribution System Symposium, September 1987. American Water Works Association, Denver, CO.

Micro CAD Applications to the Louisville Water Company's Main Replacement and Rehabilitation Program (MRRP), AWWA Computer Specialty Conference Proceedings, AWWA Computer Conference, April 1989. American Water Works Association, Denver, CO.

Distribution System Rehabilitation, Developing a Program, AWWA Out of Sight, Out of Mind Satellite Teleconference and Participant Manual, 1994, American Water Works Association, Denver, CO.

Considerations in Implementing a Comprehensive Infrastructure Renewal Program, co-author with Karen Willis, AWWA Annual Conference Proceedings, AWWA Annual Conference and Exposition, June 1995, American Water Works Association, Denver, CO.

Infrastructure Performance Methodology, Buried Asset Management, Participant Manual, AWWA Research Foundation Technology Transfer Workshop, October 28, 2004, American Water Works Association, Denver, CO.

Repair, Replacement, and Rehabilitation of Distribution System, co-author with Neil Grigg, Ph D., Buried Asset Management, Participant Manual, AWWA Research Foundation Technology Transfer Workshop, October 28, 2004, American Water Works Association, Denver, CO.

Louisville Case Study, Buried Asset Management, Participant Manual, AWWA Research Foundation Technology Transfer Workshop, October 28, 2004, American Water Works Association, Denver, CO.

Standardizing Performance Indicators for Water and Wastewater Utilities, Chapter 3, co-author with Nora Freeman, Management Innovation in U.S. Public Water and Wastewater System, Paul Seidenstat et al, 2005, John Wiley & Sons, Inc.

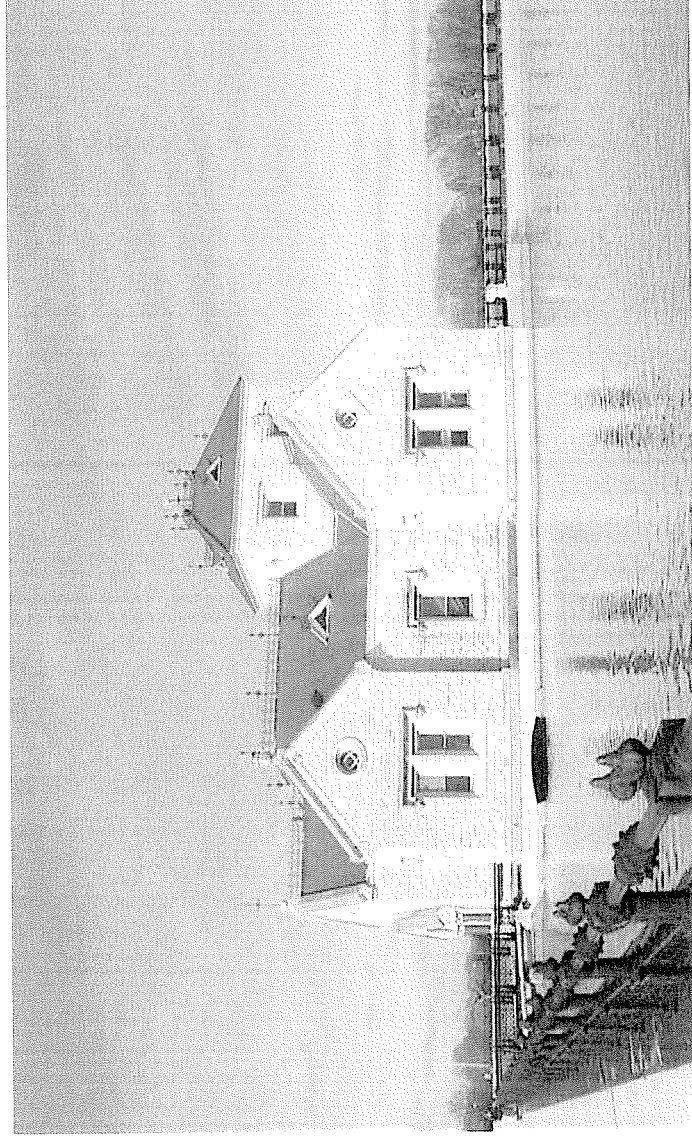
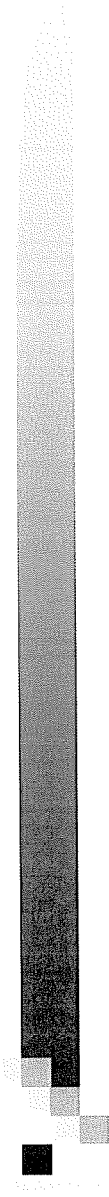
Incorporating Condition Assessment Into a Comprehensive Asset Management Program, co-author with Neil S. Grigg, Ph D., Underground Infrastructure Management, November/December, 2005.

Presentations

Regional Water Planning in Kentucky, co-authored with Roger Rectenwald, AWWA Annual Conference, June 2002, American Water Works Association, Denver, CO.

Drinking Water Infrastructure Report, Kentucky Infrastructure Report Card, Kentucky Section American Society of Civil Engineers, September 2003.

The Business Case for a Comprehensive Infrastructure Renewal Program, AWWA Annual Conference, June 2005, Orlando, Florida, American Water Works Association, Denver CO.



**Louisville Water Company
Presentation to
Lexington - Fayette Urban County Council
July 10, 2007**



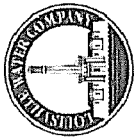
Introduction

- Securing a safe and reliable water supply is an important issue for Central Kentucky.
- Determining the source of this water supply needs to be resolved by the water supply professionals, community and elected leaders of Central Kentucky.
- LWC has an unlimited source of supply in the Ohio River with enough reserve capacity to supply the current and future water supply deficits of Central Kentucky.
- LWC is a low-cost component of a twin rivers solution for reliability and drought protection for Central Kentucky.

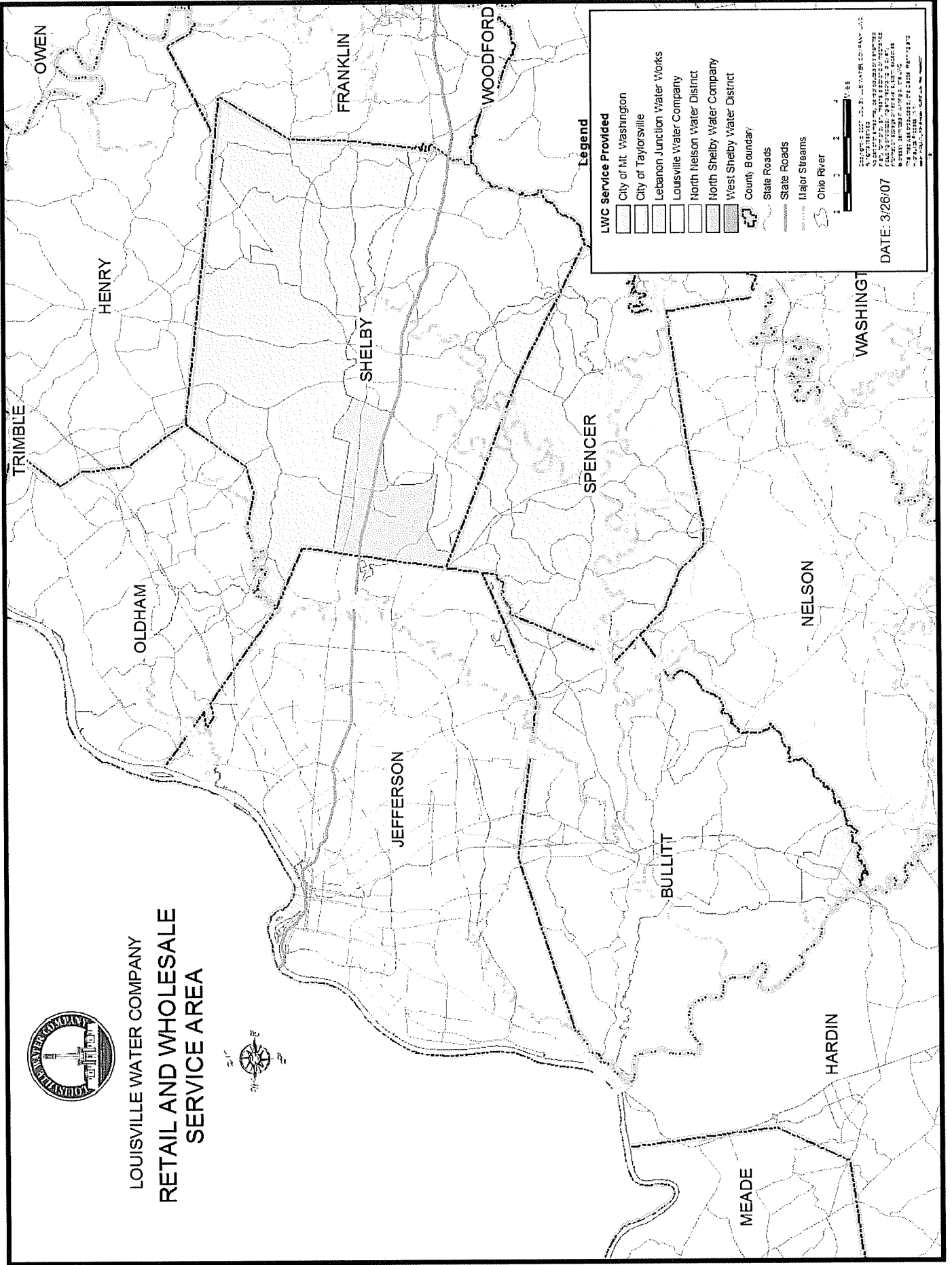
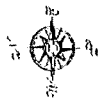


Background

- LWC was chartered in 1854 as a municipal corporation.
- LWC is a nationally recognized utility with demonstrated technical, managerial and financial capacity in all areas of water utility operations.
- LWC water quality exceeds all US EPA and Ky Division of Water regulatory requirements, as well as the high standards of the EPA Partnership for Safe Drinking Water.
- LWC provides retail and wholesale water service to 850,000 people in Metro Louisville and the following counties:
 - Bullitt County
 - Nelson County
 - Oldham County
 - Shelby County
 - Spencer County



LOUISVILLE WATER COMPANY
RETAIL AND WHOLESALE
SERVICE AREA





LWC Supply Capacity

- LWC's water source is the Ohio River, an abundant, reliable source that will meet all water supply requirements in the region.
- The Ohio River is virtually an unlimited source of water for Kentucky, with an average flow of nearly 90 billion gallons of water per day. During the 1999 drought, LWC used less than one-half of one percent of the available capacity of the Ohio River.
- LWC has two treatment plants with a current capacity of 240 million gallons per day (MGD) which can be easily expanded to 300 MGD. LWC's historical maximum day pumping was 205 MGD in 2005.
- LWC has enough reserve capacity to meet the water supply needs of Central Kentucky. LWC has existing reserve capacity of 35 MGD that can easily be increased to 95 MGD.



LWC Technical and Managerial Capacity

- LWC is an industry leader in water quality and treatment research and was instrumental in the establishment of the Partnership for Safe Drinking Water with the USEPA.
- LWC is an industry leader in drinking water quality, with performance consistently better than regulatory standards.
- LWC is an industry leader in infrastructure rehabilitation and renewal and benchmarked by utilities from around the world.
- LWC is an industry leader in customer satisfaction, with high ratings for quality, service and value.



LWC Financial Capacity

- LWC Revenue Bonds are rated AA+ by Standard and Poor's Corporation and Aa1 by Moody's Investors Service. These ratings are among the highest in the United States.
- LWC has the capacity to finance capital improvements to extend service to Central Kentucky.
- LWC has the organizational flexibility to enter into a wide range of partnership opportunities.



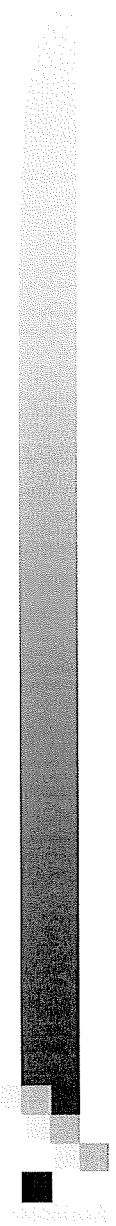
LWC Water Rates

- LWC establishes water rates on cost-of-service principles established by the American Water Works Association (AWWA).
- LWC water rates are among the lowest in the state. The typical residential monthly water bill is \$18.40 for 6,000 gallons of consumption.
- LWC standard wholesale rate is \$1.71 per thousand gallons.
- LWC will provide alternative wholesale rates based upon minimum purchase, duration of contract, capacity reserved, and contributed capital.



Central Kentucky Water Supply Needs

- Additional reliable source of supply by 2010.
- Additional capacity of 20 – 25 MGD.
- Low cost solution.



Proposed Interstate 64 Pipeline Solution for Central Kentucky

- LWC proposes a 36 inch pipeline be built from Jefferson County to Fayette County, along Interstate 64.
- LWC will build and fund a 36 inch pipeline along Interstate 64 from Snyder Freeway (I-265) to KY Hwy 53 in Shelby County.
- If needed, LWC will finance the portion of the pipeline from KY Highway 53 to Fayette County.
- LWC will provide water service to wholesale customers connecting to the pipeline at the LWC wholesale rate of \$1.71 per thousand gallons (2007 standard wholesale rate).
- Pipeline will be built by 2010.



Interstate 64 Pipeline Solution

- A 36- inch pipeline will provide up to 30 MGD of supply capacity.
- Other pipeline sizes are available:

<i>Size</i>	<i>Minimum Capacity</i>	<i>Minimum Take or Pay</i>
42-inch	31 MGD	6 MGD
36-inch	23 MGD	5 MGD
30-inch	16 MGD	3 MGD
24-inch	10 MGD	2 MGD

- The cost for an Interstate 64 pipeline from Jefferson County to Fayette County is estimated at \$ 82 million. LWC will build and fund the \$ 26 million portion from Jefferson County to KY Hwy 53 in Shelby County.

**I-64 CORRIDOR
PIPELINE SOLUTION**

**16.3 MILES (86,000') OF 36" MAIN
BOOSTER PUMP STATION
STORAGE TANK
\$26 M TOTAL**

**42 MILES (222,000') OF 36" MAIN
\$56 M TOTAL**

**ENGLISH STATION
10 MG RESERVOIR**

LEGEND

- 12" Main
- 14" Main
- 16" Main
- 18" Main
- 20" Main
- 24" Main
- 30" Main
- 36" Main
- 42" Main
- 48" Main
- 60" Main
- County Road
- Major Road
- Minor Road
- Water District
- City
- County

DATE 7/03/07

SCALE 1"=5000'

LOUISIANA WATER COMPANY

[illegible]

I-64 CORRIDOR PIPELINE SOLUTION

16.3 MILES (86,000') OF 36" MAIN BOOSTER PUMP STATION \$26 M TOTAL

42 MILES (222,000') OF 36" MAIN \$56 M TOTAL

Legend

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- 68" Main
- 70" Main
- 72" Main
- 74" Main
- 76" Main
- 78" Main
- 80" Main
- 82" Main
- 84" Main
- 86" Main
- 88" Main
- 90" Main
- 92" Main
- 94" Main
- 96" Main
- 98" Main
- 100" Main
- County Road
- Interstate
- State Road
- Local Road
- Waterway
- Other

English Station 10 MG Reservoir

Shelbyville

Frankfort

Lexington

Georgetown

Stamington

Midway

Northeast Woodford County

Versailles

Lawrenceburg

Alton

South Anderson

Jessamine-South Elkhorn

US 60 Water District

West Shelby Water District

City of Taylorsville

City of Shelbyville

City of Frankfort

City of Lexington

City of Georgetown

City of Stamington

City of Midway

City of Northeast Woodford County

City of Versailles

City of Lawrenceburg

City of Alton

City of South Anderson

City of Jessamine-South Elkhorn

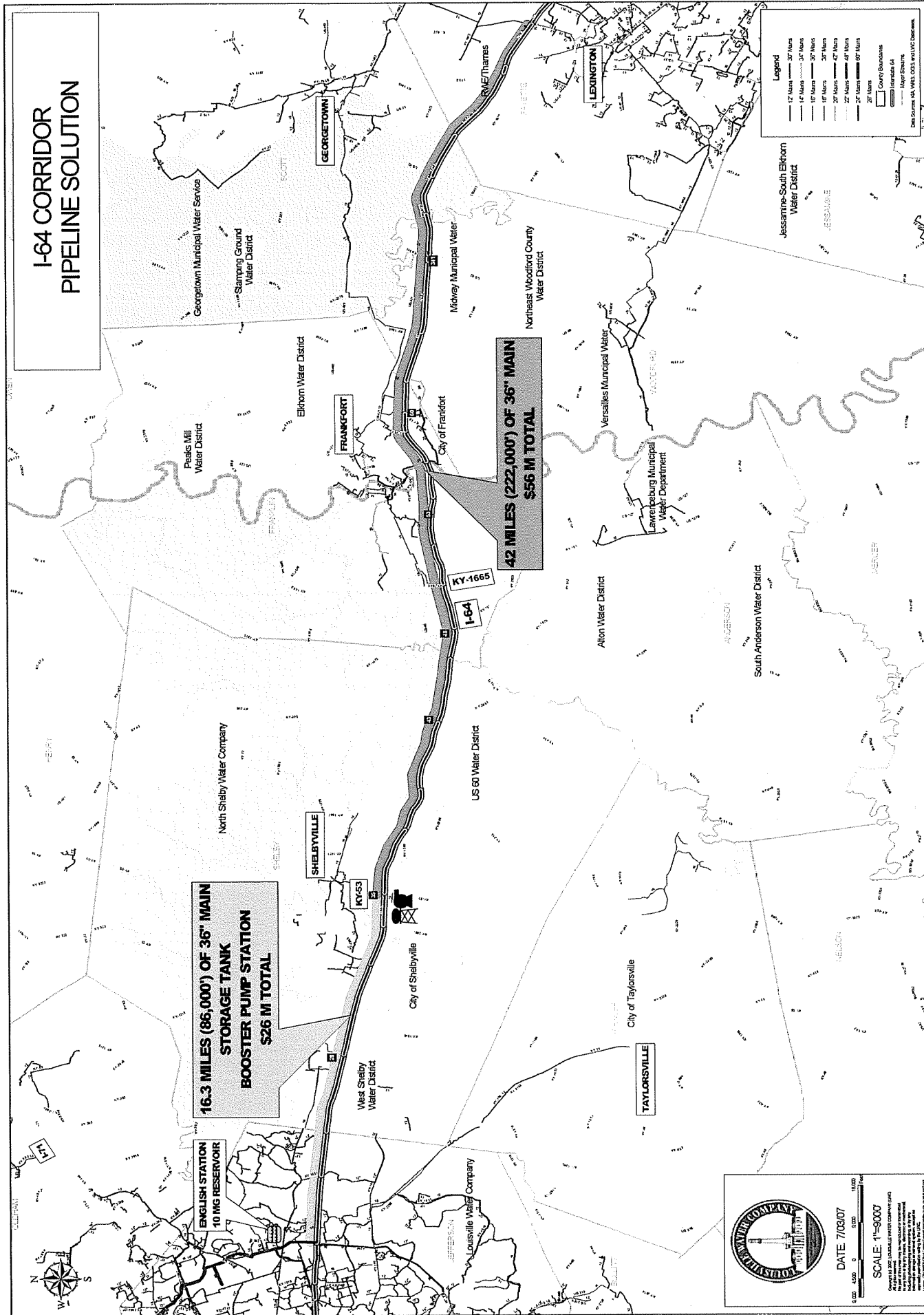
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LOUISIANA WATER COMPANY

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Benefits of an Interstate 64 Pipeline Solution

- Provides an unlimited source of supply from the Ohio River.
- Provides a low cost and timely regional solution.
- Is attractive for state and federal grants.
- Provides long term drought protection and a reliable, redundant source.
- Provides connectivity for water providers in the Central Kentucky Region.



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