

SIERRA CLUB SETTLEMENT
ANNUAL REPORT
FOR 2010

I. INTRODUCTION

Little Rock Wastewater (LRW) continued to comply with the Sierra Club Settlement agreement dated September 12, 2001 and continue several major ongoing capital projects. By the end of 2010, the Little Maumelle Wastewater Treatment Facility (LMWTF) was nearing its final phases of construction. Contract IV (the conveyance pipeline) was 99% complete with construction and Contract II (the treatment facility itself) was 97% complete with construction. Contract III (Little Maumelle Pump Station improvements) was completed in the 3rd quarter of 2010.

The Fourche Creek Wastewater Treatment Facility (FCWTF) hydraulic upgrade, which began in 2009, continued through 2010, completing Schedule I (disinfection) by the 4th quarter of 2010. By the end of 2010, Schedule II was 80% complete with construction and Schedule III was 100% complete with design phase. In the beginning of 2010, LRW also completed installation of the new generator at the Fourche Creek Facility, which runs on methane gas and in turn, supplies electricity back to the plant.

These activities constituted LRW's major compliance efforts and they will be discussed with other activities in the order mentioned, consisting of (1) Projects Update; (2) Financing; (3) Other Compliance Actions; (4) Supplemental Environmental Projects; (5) 2010 Non-Capacity Related Sanitary Sewer Overflows; and, (6) 2010 Capacity Related Overflows.

II. PROJECTS UPDATE

A. Little Maumelle Wastewater Treatment Facility

The Little Maumelle Wastewater Treatment Facility project was divided into four contracts to facilitate design and construction. The project was separated as follows: Contract I is the access road to the plant site; Contract II is the treatment plant; Contract III is the reconfiguration of the Little Maumelle Pump Station which sends untreated wastewater to the treatment plant; and Contract IV is the conveyance contract which consist of the effluent, influent, sludge, and discharge lines which carry the various forms of wastewater to and from the treatment plant.

Contract I was completed prior to 2009. At yearend of 2010, construction of Contract II was 97.27% completed, Contract III was completed in October 2010, and Contract IV was 99.81% completed. Contract IV was scheduled for completion in December 2010, and Contract II is scheduled for completion in May 2011.

B. Peak Flow Attenuation Facilities

In 2009, two of the four contracts for the overall project known as Peak Flow Attenuation Facilities were completed. Contract I (Diversion Structures and Gravity Line) was

completed in 2009. This project conveys wastewater from the gravity collection system to the Peak Flow Pump Station (Contract II).

For Contract II, final completion was issued in December 2009 for the 30 million gallon storage facility, the 12,500 linear feet force main from the pump station to the storage facility, and for the Peak Flow Pump Station. These facilities have been put into service.

The hydraulic upgrade of the Arch Street Pump Station is the third contract for the Peak Flow projects. Within 2010, construction of the project commenced and reached 88.28% completion with the construction of the new electrical building. Substantial completion is scheduled for May 2011.

The 30-inch redundant force main project is the fourth contract under the Peak Flow projects. This force main project was further divided into two contracts to accommodate anticipated growth within the industrial park adjacent to wastewater facilities.

In the first contract, from the College Station Pump Station to the FCWTF, the contractor has completed 17,600 linear feet of force main. Contract I was completed in August 2010.

For the second contract, which includes from the Arch Street Pump Station to the connection point on the east side of Pratt-Rommel Road, the contractor has completed 24,000 linear feet of force main. The Final Completion Date was September 2010.

C. Cantrell Road Pump Station Upgrade and Force Main

Currently, all wastewater flows from the Little Maumelle sewer basin and all sanitary sewerage from the area north of Cantrell Road, including the Allsop Park and Country Club areas, flow through the Rebsamen Interceptor. This interceptor and an area of the city bounded by the Dillard's corporate headquarters to Central High School, to the University of Arkansas Medical Center, back to the Dillard's headquarters, flow to the Cantrell Road Pump Station through the Rose Creek sewer basin.

With regard to the pump station, the facility is in good structural condition. Mechanically and electrically, the station's components are in need of replacement. Two bar screens were installed in 1986. Two of the original 1967 pumps were replaced in 1986. The other two pumps are original to the station. A portion of the switchgear is original while some components were replaced or added in 1986. The station does not have back-up power generation. Additionally, frequent pump cycles indicate that the wet well of the pump station is undersized. The purpose of this project is to improve the reliability of the station by replacing the electrical and mechanical components and installing back-up power.

The 30-inch force main that conveys flows from the Cantrell Road Pump Station to the River Front Interceptor is a prestressed concrete cylinder force main that was installed circa 1967 and has been in service since. An engineering study of the force main needs to be performed to assess its existing condition as well as to determine the adequacy of the force main to withstand the additional pressures needed for the hydraulic upgrade of the pump station. Design life for similar structures can be 50 years. This portion of the project calls for

the installation of a new force main and the inspection and rehabilitation of the existing force main after the new main is placed in service.

The five-year forecast allocates project costs of \$ 426,497 in 2013 and \$ 3,773,899 in 2014 and \$3,750,333 in 2015. The project is forecasted to be substantially completed in 2015.

D. Fourche Creek Wastewater Treatment Facility Hydraulic Upgrade

The hydraulic upgrade of the Arch Street Pump Station from 38 million gallons per day (MGD) to 45 MGD will necessitate the hydraulic upgrade of the Fourche Creek Wastewater Treatment Plant to a minimum of 45 MGD. In 2008, LRW, with its consultant CDM, completed a 20-year capital improvement plan (CIP) to assess treatment processes, identify deficiencies, and plan for improvements to the plant to meet future hydraulic and process needs. The overall project was divided into four phases. Phase One is the addition of the new disinfection system, with a project cost of \$9,232,294.47. At the end of 2010, construction was 99.97% complete. The second phase is the addition of a secondary clarifier, with a project cost of \$ 9,542,797.53. Notice-to-Proceed was issued January 2010 and substantial completion is scheduled for May 2011. The third phase will address headworks, bioreactor, and primary clarifier with a project cost estimate of \$ 13,322,092 to be completed in 2017.

After the completion of the Infiltration/Inflow analysis in 2010 and a determination is made that no additional overflow mitigation projects are required to eliminate sanitary sewer overflows, the fourth phase of improvements for FCWTF will be evaluated. The five-year forecast allocates \$ 17,890,953 for engineering, construction, administration expenses, contingencies, and plant process improvements. The project is scheduled to be completed in 2018.

E. Overflow Mitigation Projects

In the late 1980s, LRW was the first municipality in Arkansas to establish a program to address excessive infiltration and inflow (I/I) which leads to sanitary sewer overflows during or following wet weather events. Within the 1990s, LRW shifted its focus to not only address excessive I/I within public mains, but restore capacity to basin outfalls that were undersized for designated wet weather events and labeled this effort as the overflow mitigation program (OMP). The program has had an impact on the number of overflow points within the city as well as reduced the amount of extraneous rainwater that was treated. LRW will continue this program as evidenced by the following identified future projects and corresponding funding efforts:

1. **Jimmerson Creek (RLF #8)** – The Jimmerson Creek project only rehabbed the mains by CIPP or Pipe Burst method. The project was bid in early 2008. The contract was awarded to Building and Utility Contractors in the amount of \$2,986,650. The project was completed in 2009 in the amount of \$3,233,789.90. The manhole rehabilitation was completed in 2010. Evaluation of the sub-basin post rehabilitation is ongoing.

2. **Allsopp South (RLF #8)** – The Allsopp South Project was awarded to Building and Utility Contractors in the fall of 2008. The contract amount is \$4,020,505.00. The contract was completed in 2010 with manhole rehabilitation scheduled for 2011. Post project performance was initiated in 2010 with the final date of evaluation scheduled after manhole rehabilitation.
3. **Barton (RLF #8)** - The project was bid on February 11, 2009. The contract was awarded to Building and Utility Contractors in the amount of \$1,770,641.36. The project was completed in 2010 with manhole rehabilitation scheduled for 2011. Post project performance was initiated in 2010 with the final date of evaluation scheduled after manhole rehabilitation.
4. **Allsopp North/Country Club (Future Funding)** – The Allsopp North/Country Club project is designed. The Allsopp North/Country Club project is the largest overflow mitigation project the utility has designed to date. The difficulty of this project is further multiplied by the housing density and extensive landscaping in the project area. The project is currently on hold due to a lack of funding.
5. **Allsopp Park Outfall (Future Funding)** - McClelland Engineers is under contract for the design of this outfall. The project is designed and easements are currently being procured. The project is on hold due to a lack of funding.
6. **Country Club Outfall (Future Funding)** - McClelland Engineers is under contract for the design of this outfall. LRW will construct a new outfall line along the creek from the intersection of Beechwood and Club to the cul-de-sac on Coffee Pot Lane. The site conditions and the area make this project difficult to construct. The project is on hold due to a lack of funding.
7. **Leawood, Echo Valley, and Pleasant Valley (Future Funding)** - The Leawood, Echo Valley, and Pleasant Valley projects are designed. The projects are on hold due to a lack of funding.
8. **Lower Swaggerty, Granite Mountain, Sub-basin 30100, and Jimmerson West (Future Funding)** - The Lower Swaggerty, Granite Mountain, Sub-basin 30100 (Bond Street), and Jimmerson West are designed or being reviewed for bidding. The projects are on hold due to a lack of funding.
9. **Jimmerson West Outfall (RLF #8)** – The project was bid on July 30, 2009 and subsequently awarded to Carson and Associates. The project was completed in 2010.
10. **Jimmerson East and Upper Hinson Manhole Rehab (RLF #8)** – The manhole rehab project was bid on July 8, 2009. Corgill Construction was the low bidder and awarded the contract in the amount of \$562,294.00. The contract was completed in 2010. Post project performance data is being reviewed. 2010 was an exceptional dry year and comparison from previous data is complex.
11. **System Evaluation and Capacity Assurance Plan (SECAP) (RLF #8)** – LRW contracted with RJN Group to conduct the SECAP update. RJN started the

project in the fall of 2009. RJN provided the final report in November 2010. The updated report lists multiple projects in addition to the original SECAP; the original SECAP was completed in 2002. The 2002 SECAP resulted in a Capital Improvement plan to eliminate overflows and bring the wastewater system into compliance with the Consent Administrative Order (CAO) and Sierra Club Settlement Agreement by 2016. Many of the projects contained in the original SECAP have been implemented. RJN evaluated the impact of the completed projects and the need for the remaining improvements and/or develop additional alternatives. The objectives of the SECAP update are to flow monitor the entire sanitary sewer system, update the existing hydraulic model, identify capacity requirements, analyze existing pump stations, analyze equalization basins, analyze wastewater treatment plants, develop improvement projects, budget estimates, recommend infiltration/inflow reduction, and provide a capital improvement plan. RJN provided LRW with the data and analysis previously mentioned in the objectives.

LRW has listed the projects in the 2011 budget and scheduled the projects accordingly. The report lists storage facilities, operational adjustments, capacity improvements, and other pertinent items to eliminate overflows. The major projects for the storage facilities are at three sites within the collection system and one site at the Adams Field Wastewater Treatment Facility. The three sites are the Rock Creek Storage, Cantrell Road Storage, and the Mabelvale Pike Facility. The estimated storage for the three facilities is 62 million gallons. The AFWTF storage is estimated at 14 million gallons. The total amount of storage required is 76 million gallons. There are multiple projects listed in the SECAP update to increase the capacity of existing gravity mains. A large diameter main (42" & 48") proposed from 36th street to Mabelvale Pike is the largest line project required. The Grassy Flat main is requiring a capacity increase from an 18" main to a 30" mainline. Multiple projects such as manhole adjustments and upsizing of mains is included in the report. The SECAP update assumed all previous collection system projects would be completed.

III. FINANCING SEWER IMPROVEMENTS

A. Discussion:

There were no sewer revenue bond issues for 2010. For the years 2010 and 2011, it is the intent of LRW staff to complete the existing projects related to the Consent Administrative Order (CAO). These projects include the LMWTF, the Peak Flow Attenuation Facilities, the Arch Street Pump Station improvements, the FCWTF Capacity Upgrade/Modifications, and overflow mitigation projects. Financing for new projects is scheduled for the years 2012 and 2013.

The proceeds of two (2) sewer revenue bond issues dated June 1, 2007, in the amount of \$63,050,000 and dated October 1, 2007, in the amount of \$71,085,000 were completed in 2010. These issues provided funds needed for the construction of the Peak Flow Attenuation Facilities and the LMWTF.

The proceeds of the Series 2009A bond issue are being utilized to fund the Arch Street Pump Station (ASPS) improvements. Conveyance of the wastewater will be directed from ASPS to the FCWTC by a force main being extended five (5) miles to eight (8) miles long. This will increase capacity. The modifications will result in equipment replacement, as well as construction of a building to house new electrical equipment. The existing building will be demolished, and a new, small wastewater pump station will be constructed on-site to pump flows that enter the existing College Station Pump Station via a 12” diameter gravity sewer. The overall objective for this project is to reduce the number of sanitary sewer overflows and the spill volumes which occur during two-year, 24-hour rain events within the collection system. The project is forecasted to be completed in early 2011.

It is planned that the proceeds of the Series 2008A and 2009B Bonds will be utilized to complete the construction of the FCWTF Upgrade/Modifications, the LMWTF, and the Peak Flow Attenuation Facilities project. These projects are scheduled to be completed in 2011.

IV. OTHER COMPLIANCE ACTIONS

A. Signage/Public Notification/Public Information:

As required in the Settlement Agreement, LRW staff developed a Sanitary Sewer Overflow Response Plan (SSORP) which was authorized by the Little Rock Sanitary Sewer Committee on September 18, 2002. The SSO Response Plan, as amended, is included in this document as Attachment A. The plan establishes a protocol for maintenance crews to follow when responding to an SSO event, and specifies internal and regulatory reporting procedures. The response protocol includes provisions for temporary signage and posting notices at individual residences. Temporary signage currently used by LRW is shown in Attachment B. A copy of the “door hanger” LRW uses to post residences is provided in Attachment C.

Practically all of the SSO Notification Program requirements contained in the Settlement Agreement are addressed in the SSORP, including the provisions for permanent signage at recurring SSO locations on public property. Locations eligible for permanent signage are in Table A-2 of the SSORP (Attachment A).

An example of permanent signage placed at recurring SSO sites is shown in Attachment D.

B. Public Relations Information

1. ***Can the Grease®*** - The *Can the Grease®* initiative kicked off in 2002 as a means of education, motivation, and promotion of the grease related problems in Little Rock’s sanitary sewer system. LRW’s residential customers can request a grease information “starter kit,” which includes a grease container, six (6) heat-resistant liners, an informational pamphlet, and an informational magnet. Starter kits are also distributed in larger quantities at community events and to apartment complexes. In 2010, approximately **800** starter kits were delivered or mailed to residential customers, **2,900** to apartment complexes and mobile home parks, and

approximately **1,300** at various community events or tradeshow. LRW gave out approximately **5,000** Can the Grease© starter kits for the entire year.

LRW continues to receive and answer requests from other cities and communities across the country interested in the grease elimination initiative. Some of the cities that were interested last year were Carbondale, CO, Collierville, TN, Princeton, NJ, Arlington, VA, Ukiah, CA, Brinkley, AR, Seattle, WA and Santa Rosa, CA, Fort Worth, TX, Seattle, WA, Shelton, CT, Meridian City, ID, and Oakland Park, FL.

2. Captain Sewer© - LRW began an educational initiative with children in the 1980s by creating a live superhero character, Captain Sewer©. Late in 2007, the Captain Sewer character was reinvented. The decision was made that the original superhero look did not fit the target audience (elementary students) and that a more cartoon-like character would be more appropriate, something more representative of what LRW does. Captain Sewer changed from a superhero in tights to a Sewer Rat in buccaneer garb. The presentation consists of teaching youth about water conservation, recycling and proper grease disposal. At the end of the program, each child is given an activity book and a certificate declaring them an Honorary First Mate of Captain Sewer. In 2010, Captain Sewer and his First Mate, Stinky, made six appearances at elementary schools and events around Little Rock.

3. Bill Inserts - LRW created three (3) bill inserts that were distributed in the Utility bill in 2010. The “75th LRW anniversary/Stay Connected” insert was released in February. It listed the announcement of LRW’s 75th anniversary and information pertaining to LRW’s Stay Connected public education program. The “AWC/Stay Connected” insert was a single sheet, double sided full color print that was sent out in July. It contained information on LRW’s Stay Connected program on one side. The other side explained Average Winter Consumption (AWC) and listed how customer’s money was spent in 2009. The third and final bill insert was sent out in November. The “75th Anniversary/SSO” bill insert continued celebration of LRW’s 75th Anniversary on one side and informed residents about sanitary sewer overflows on the other side.

4. Awards – LRW received several awards and recognition during 2010 for contributions to the environment, financial reporting, safety professional of the year and public education. The awards LRW received are as follows:

(a) **NACWA Peak Performance Awards** – The National Association of Clean Water Agencies (NACWA) awarded LRW two Silver Peak Performance Awards for both treatment facilities, the FCWTF and AFWTF for 2009.

The Peak Performance Award has been bestowed upon wastewater agencies since 1986. It is given to facilities that consistently meet all National Pollutant Discharge Elimination System (NPDES) permit limits during the year. Between the FCWTF and AFWTF there are a combined 1,194 possible violation points. To be awarded the Silver Peak Performance Award means

that an agency has had no more than 5 NPDES violations in a given year, which LRW achieved for 2009.

(b) NACWA National Environmental Achievement Award - LRW was selected to receive a NACWA National Environmental Achievement Award for its excellence in Public Information and Education for the **Stay Connected®** program. NACWA's Public Information and Education Award is presented for outstanding programs in the following categories: Video, Printed Publication, Educational Program, or E-media. LRW was selected for the Educational Program category.

LRW has made a huge leap towards a cleaner, environmentally affable future with our public education **Stay Connected®** program. The message is one of awareness and preservation: know where your sewer service line is and have it checked for cracks, breaks and debris. With an involved advertising campaign and service line inspection plan, LRW has made significant steps in public awareness and education of sewer service line responsibility and maintenance. Unlike several larger projects LRW is presently undertaking (e.g., new wastewater treatment facility), this program is not mandatory under the Consent Administrative Order (currently mandating projects for LRW), but rather it has become a passionate endeavor that LRW has taken on for the sake of public health and the environment.

(c) Certificate of Achievement for Excellence in Financial Reporting – The Government Finance Officers Association (GFOA) has awarded the Finance Department of LRW the Certificate of Achievement for Excellence in Financial Reporting for its Comprehensive Annual Financial Report (CAFR).

The GFOA is a nonprofit professional association that serves approximately 17,500 professionals in the governmental finance field. The Certificate of Achievement for Excellence in Financial Reporting is the “highest form of recognition in governmental accounting and financial reporting” by the GFOA and is considered to be a “significant accomplishment by a government and its management.” LRW's CAFR was judged by an impartial panel that looked for high standards of the program such as “demonstrating a constructive ‘spirit of full disclosure’ to clearly communicate its financial story and motivate potential users and user groups to read the CAFR.”

This is LRW's fifth consecutive year to accomplish this feat.

(d) Distinguished Budget Presentation Award - The Government Finance officers Association (GFOA) of the United States and Canada awarded Little Rock Wastewater the GFOA'S Distinguished Budget Presentation Award for its budget for 2010. The award represents a significant achievement by the entity. It reflects the commitment of the governing body and staff to meeting the highest principles of governmental budgeting. In order to receive the budget award, the entity had to satisfy nationally

recognized guidelines for effective budget presentation. These guidelines are designed to assess how well an entity's budget serves as:

- a policy document
- a financial plan
- an operations guide
- a communications device

Budget documents must be rated "proficient" in all four categories, and the fourteen mandatory criteria within those categories to receive the award.

When a Distinguished Budget Presentation Award is granted to an entity, a Certificate of Recognition for Budget Presentation is also presented to the individual or department designated as being primarily responsible for its having achieved the award. This has been presented to James A. Barham, Manager of Finance.

For budgets including fiscal period 2009, 1,214 entities received the award. Award recipients have pioneered efforts to improve the quality of budgeting and provide an excellent example for other governments throughout North America. The Government Finance Officers Association is a nonprofit professional association serving over 17,600 government finance professionals throughout North America. The GFOA's Distinguished Budget Presentation Awards Program is the only national awards program in governmental budgeting.

(e) **Sterling Agency Award** – LRW was named a 2010 Universal Public Purchasing Certification Council (UPPCC) Sterling Agency for having a fully certified staff for three (3) consecutive years.

This award was created to acknowledge an agency's commitment to the value of certification in the public sector. Norma Hall, Chair of the UPPCC Governing Board states that "this achievement speaks volumes of [this] agency's commitment and dedication to the profession and the skills and expertise that [LRW] bring to the public procurement industry."

LRW is currently the only public organization to have a fully certified purchasing staff in the state. LRW set the bar three (3) years ago by becoming the only public entity in Arkansas to have a 100% certified staff and has now raised the bar by being named a Sterling Agency for its devotion and commitment to public procurement.

(f) **Safety Professional of the Year** - The Arkansas Water Environment Association (AWEA) Safety Professional of the Year Award is given to individuals who have shown dedication and outstanding achievement in promoting safety awareness. In 2010, it was awarded to LRW's Safety Specialist, Richard Kyzer. Since 1931, the common goal of the members of Arkansas Water Works (AWW) & AWEA has been to provide clean water.

For 79 years, attendees have considered the AWW & AWEA Annual Conference, Short School and Expo the premier event for information management in the water and wastewater industries. With more than 2,500 members representing every aspect of the water and wastewater profession, the AWW & WEA is the largest association for water professionals in Arkansas.

5. Trade Associations, Exhibits, Fundraisers, and Community Service – One of the major success elements of our public awareness program in 2010 was our participation in specific trade associations, environmental exhibits, and community events. Participation in selected trade associations has allowed LRW to promote and educate an extensive number of residents and business owners on the importance of reducing grease in the sanitary sewer system, updates on our major projects and water conservation. 2010 event/exhibit participation are as follows:

(a) **Little Rock Central High School Science Fair 2010** - Since 1995, LRW has sponsored the Little Rock Central High (LRCH) School Science Fair by providing materials for protection of the gymnasium floor, the incentive awards, and judges. Central High teachers, PTA, and administration have been most appreciative of LRW's efforts in supporting environmental education and LRW employees have been very responsive in volunteering. On February 5, 2010, the LRCH science fair was conducted and fifteen LRW employees volunteered to judge.

(b) **Green to Go Festival** - On Saturday, April 17, 2010, LRW attended the Green to Go festival with about 25 other displays ranging from electric cars, free seedlings, recycling bins for glass, cardboard and cans, LR Animal Village, local farmers and much more. Captain Sewer attended with other LRW volunteers to hand out information and Can the Grease© kits.

(c) **Neighborhoods USA Conference** – Little Rock Wastewater attended the Neighborhoods USA (NUSA) conference from May 26th through the 28th, which was hosted by the City of Little Rock in 2010. NUSA is a national non-profit organization committed to building and strengthening neighborhood organizations. Created in 1975 to share information and experiences toward building stronger communities, NUSA now continues to encourage networking and information sharing to facilitate the development of partnerships between neighborhood organizations, government and the private sector.

Team NUSA, a volunteer group of neighborhood/community activists, city staff/elected officials, business leaders and federal partners, produced NUSA 2010. The first-time NUSA federal partners included HUD, FEMA, Americorp/City Year, the National Park Service and Clinton Presidential Center. President Bill Clinton was a most welcome keynote speaker who lauded the work of neighborhood groups nationwide. Attendees chose from 62 workshops, 25 of which were presented by the federal partners, 16

Neighborhood Pride Tours on Thursday and five special tours on Friday. LRW's Peak Flow Attenuation Facility was one of the stops on the tour. A mayor's reception was held on Wednesday evening at the Clinton Presidential Library. A poor national economy this year kept attendance down to 480 conferees, but all who attended gave the conference high marks in evaluations. Little Rock's 189 neighborhood associations benefited by learning to work together to produce an outstanding conference. NUSA benefited by gaining new federal partners and national sponsors, several of whom indicated a desire to continue with NUSA at future conferences. At this conference the Who's Who in America's Neighborhoods Award was presented for the first time.

The organizational mission of NUSA has, since its inception, been to build and strengthen neighborhood associations and to promote productive communications and collaborations between those associations and both the public and private sectors. The organization has, for over thirty years, served these broad objectives in part through the conduct of an annual conference. This provides an opportunity for people from all locations, sectors and levels of society to discuss the pressing issues of the times, share experiences and offer encouragement or assistance.

(d) ***Good Shepherd Ecumenical Retirement Center Health Expo*** – The Good Shepherd Retirement Center hosted a Health Expo on May 26, 2010. LRW attended with Captain Sewer who danced to live music with the center's patrons and passed out Can the Grease kits.

(e) ***GIS Day*** - The GIS Day event, held at Verizon Arena on November 17, 2010, focused on GIS data technology as strategic resources for economic development. "GIS - Modeling Your Community" was the theme for PAgis' GIS Day event at the Verizon Arena in North Little Rock. Presenters focused on how GIS is used to manage and maintain community resources.

Mark Drew from Little Rock Wastewater demonstrated how GIS is used to manage the sanitary sewer system, one of which was a mobile Blackberry application.

Another way LRW promoted public awareness programs in 2010 was our participation in the Heart of Arkansas United Way fundraiser campaign, Habitat for Humanity, Little Rock's Adopt-A-Street program where LRW adopted ¼ of a mile of road along Shackelford Road, and the Channel 11 THV Summer Cereal Drive for the Arkansas Foodbank Network.

6. Media – It has been the intent of LRW to continue improved communication with all areas of the media during 2010, but with a smaller budget. That goal was accomplished through regularly issued press releases highlighting special topics of interest. LRW worked closely with the local newspaper to offer information in a timely manner. That effort was found to be positive in the result of most newspaper articles being factual.

Due to 2010 budget restrictions, our ability to place ads in popular publications was limited. LRW advertised in various local publications such as *Arkansas Times*, *Arkansas Democrat-Gazette*, *Arkansas Business*, *Little Rock Family*, *Green Guide*, *Little Rock Regional Business Guide*, and *The Arkansas Trooper*.

In an effort to obtain additional media attention, both earned and bought, for Can the Grease©, a 30-second commercial was aired on the Comcast Cable Network. The commercial featured Captain Sewer offering a family a Can the Grease kit as a solution to not pouring grease down the drain.

7. Publications – LRW’s priority is to keep the public informed as much as possible. One of the many ways we accomplish this is through the information we provide through printed publications. We create, print and distribute quarterly major projects updates called, “The Current Report.” These booklets go to local officials, stakeholders and employees. We also print several informational brochures on a variety of topics from our Can the Grease© and Stay Connected programs to our treatment facilities and construction.

8. Website – LRW continues to maintain the site with the latest news, updates, and information for those who access the site. The user-friendly site allows visitors to view a calendar listing all Sanitary Sewer Committee meeting dates, approved minutes of the Committee, and even biographies of each Committee member. With several interactive displays, general wastewater information, ordinances, rate information, and much more, website traffic continues to grow. One of the most visited areas of the site is the customer information section, which allows visitors to select a topic or department, and then populate a field with a question or comment. They can also look at LRW’s construction schedule to see dates and places of work to be performed.

Under *Community Services*, information is available about the following: Who to Call, Frequently Asked Questions, Residential Services, Commercial Services, LRW Ordinances, Sewer Line Locator, and Information Request Form. Under *Community Awareness*, information is available about the following: Work In Your Neighborhood, Where Does Your Money Go?, LRW Programs, Headlines & Newsroom, Operational Events, Calendar of Events, and Information Request Form. Under *Education*, information is available about the following: Conservation & Environment, Treatment Technology, Innovation in Wastewater, Water Reuse, Pollution Prevention, and Information Request Form. Under *About LRW*, information is available about the following: LRW Business Center, LRW Overview, Sanitary Sewer Committee, Our People, Financials, Capital Improvements, Facilities & Locations, Awards & Recognition, and Information Request Form.

A new feature added to the website was the newly initiated Private Sewer Systems Cleaning Permit, which residents and plumbers can access online free of charge. This was developed to help LRW be aware of large amounts of debris that might dislodge from the larger private sewer systems.

9. Facility Tours – LRW continued to advertise wastewater treatment facility tours at our AFWTF on the LRW website and in *Little Rock Family*. Some of those who toured the facility were The Rotary Club, ADEQ, Episcopal Collegiate School, Mills University Studies High School, and the LRW Leadership Solutions Class. In addition, a special tour was given to the Little Rock Sanitary Sewer Committee at the LMWTF site.

Detailed photos and documentation relating to these activities are shown in Attachment E.

V. SUPPLEMENTAL ENVIRONMENTAL PROJECTS AND ANY OTHER LRW ENVIRONMENTAL EFFORTS

The Settlement Agreement required the LRSSC to establish a Supplemental Environmental Project consisting of the Fourche Plant Wetlands, bike paths (set forth hereinafter in paragraphs A and B):

- A. **Fourche Creek Wastewater Treatment Facility Wetlands:** The 90 acres of wetlands next to the FCWTF have not been disturbed and are available to Little Rock Parks & Recreation Department if it wishes to develop hiking trails on the property. In 2010, the Audubon Society of Arkansas removed the invasive species, Alligator Weed, from this area by laying down tarps to “choke out” the weed. They followed up by replanting species of vegetation native to the area. The Audubon Society also introduced to the area an insect known for only eating the Alligator Weed. They obtained these insects from the Corps of Engineers out of Jacksonville, Florida. The replanting of the native vegetation has been successful but the Audubon Society is still testing the success of the insects.
- B. **Bike Paths:** LRW contractors recently completed a pipeline conveyance project in correlation with the LMWTF where it placed large diameter pipes underneath Pinnacle Valley Road (PVR) and County Farm Road (CFR). The completion of the project entailed a new, asphalt road for PVR and CFR with designated bike paths on both sides of the road. LRW also constructed a walking bridge on top of our conveyance pipe which crosses the Little Maumelle River. When LRW constructed the access road to the LMWTF, it constructed the road wide enough to make room for future bike path endeavors along the road. LRW is continuing communication with Little Rock’s Parks and Recreation Department, the City of Little Rock and Pulaski County officials for future possible bike paths. Mayor Mark Stodola invited LRW to be a part of a bike path task force, which it plans on actively participating in the future.

VI. 2010 NON-CAPACITY RELATED SANITARY SEWER OVERFLOWS

- A. **Compliance Standard:** The Settlement Agreement limits the number of non-capacity related SSOs based on 100 miles of sanitary sewer operated and maintained by LRW in LRSSC’s collection and treatment system. The Settlement Agreement specifies the following “interim schedule” for non-capacity related SSOs:

Calendar Year	Number of Non-Capacity Related SSOs per 100 Miles of Sewer
2002	12
2003	11
2004	10
2005	9
2006	8
2007	7
2008	6

For the calendar year 2002, the Settlement Agreement established the mileage of sewers at 1100 miles; actual mileage according to LRW’s GIS system as of December 31, 2010 is 1,321 miles. The 2010 mileage data establishes a benchmark of 1,321 miles of sewers. Therefore, the 2010 performance requirement for LRW was to limit non-capacity related SSOs to no more than 79 SSOs, according to the interim schedule.

B. Non-Capacity Related SSOs in 2010: There were 49 non-capacity related SSOs reported in 2010. Of the 49 total, six (6) SSOs were related to construction, and four (4) SSOs were related to vandalism. The result was a total of 39 non-capacity related overflows attributed to the operation and maintenance of the LRW collection system. Of the 39 non-capacity related overflows, two (2) SSOs were attributed to debris; zero (0) SSOs were attributed to equipment failure; fifteen (15) SSOs were attributed to grease; twelve (12) SSOs were attributed to line failures; ten (10) SSOs were attributed to roots.* A complete listing of non-capacity related SSOs is provided under Attachment F.

C. Compliance Assessment: Using 1,321 miles of maintained sewers and the “interim schedule” provided in the Settlement Agreement, LRW complied with its 2010 performance requirement to have no more than 79 non-capacity related SSOs, with 39 non-capacity related overflows attributed to the operation and maintenance of the collection system owned and operated by Little Rock Wastewater Utility.

D. Additional Projects Not Covered By SECAP: In addition to the progress made on SECAP projects during 2010, LRW spent approximately \$4,000,000.00 renewing or replacing structurally deteriorated sewer mains. Old deteriorated sewers are sources of infiltration/inflow and are prone to blockage, contributing to both the number of capacity and non-capacity SSOs.

LRW has reduced the number of non-capacity related sanitary sewer overflows attributed to the operation and maintenance of the collection system owned by CLR to below 6 per 100 miles of sewer lines for seven (7) consecutive calendar years, being 2004, with a total of 42, 2005, with a total of 53, 2006 with a total of 42, 2007 with a total of 46, 2008 with a total of 33, 2009 with a total of 38 and 2010 with a total of 39. Therefore, under the Settlement terms in Paragraph No. 5, page 10, LRW is deemed to have complied with all provisions of this Settlement related to non-capacity related SSOs.

* In March 2007, LRW eliminated the combination of “Roots & Grease” as a code in reporting the cause of an overflow. LRW decided to use either “Roots” or “Grease” to improve reporting and tracking of SSOs.

In a continued effort to maximize LRW's rehab dollars, LRW treated 74,561 feet of mainline in 2010 with a contracted chemical root removal company with a total cost of \$120,796. Root removal is an important component of LRW's Plan 66 that targets SSO reduction.

LRW personnel completed work on 223 line segments that were in need of point repairs as well as relocated or replaced 20,626 feet of sewer line.

24,269 feet of sewer line was rehabilitated under maintenance contracts for pipe bursting and cured-in-place-pipe (CIPP).

In 2010, the Cleaning and Inspection Department Televised 766,535 feet, Hand Cleaned 610,852 feet, Hydro Cleaned 2,283,861 feet, and Line Walked 10,447,749 feet of sewer lines.

VII. 2010 CAPACITY RELATED SANITARY SEWER OVERFLOWS

A. Compliance Standard: The Settlement Agreement requires that capacity related SSOs be eliminated, provided that SSOs may occur without a breach of the Settlement Agreement if rainfall amounts exceed a duration-quantity table that essentially defines a two-year storm event ("qualifying event"). A qualifying event shall occur if any of the twelve permanent rain gauges within the collection system record a two-year storm event. More specific, to that end, the agreement required completion of a study recommending and establishing a time line for specific actions to address capacity related SSOs. The study would serve as the foundation for a long-term compliance program.

B. Capacity Related SSOs in 2010: There were 84 capacity related SSOs reported in 2010 at 46 locations, shown on Attachment G. There was one (1) rain event recorded in 2010 measuring above the Design Storm which resulted in 46 capacity related overflows. The remaining 38 capacity related overflows occurring in 2010, resulted from rain events measuring below the Design Storm threshold.

VIII. CONCLUSION

LRW realized continued success in controlling non-capacity related overflows throughout the year of 2010. The established maintenance procedures and schedules continued to provide the desired results by minimizing mainline stoppages within the collection system. In addition, the \$2 million dollars of capital invested through the replacement of the aging collection system continued to reduce stoppages related to structural pipe failures. The year of 2010 could also be described as a year of continued progress towards our goal of eliminating capacity related overflows through the completion of over \$50 million dollars on projects identified in our System Evaluation and Capacity Assurance Plan (SECAP). Significant construction progress was made on the Arch Street Pump Station Upgrade, the Redundant 30" Fourche Creek Force Main and the new Little Maumelle Wastewater Treatment Facility. In addition to the construction projects, LRW received the 2010 Update to the 2001 SECAP, as prepared by The RJN Group, which incorporates the last nine years of improvements and clearly provides direction towards meeting the compliance deadline. LRW is excited when looking forward to 2011 with the construction on several of our major projects reaching completion and the new facilities placed into service.