



March 30, 2012

Director
Arkansas Department of Environmental Quality
NPDES Enforcement Section
5301 Northshore Dr.
Little Rock, AR. 72118



RE: 2011 Annual Pretreatment Program Report
NPDES Permit AR0021806 – Adams Field WWTP
NPDES Permit AR0040177 – Fourche Creek WWTP
NPDES Permit AR0050849 – Little Maumelle WWTP

AR0050849
Complete (compliance)
no further action necessary
JH

Gentlemen:

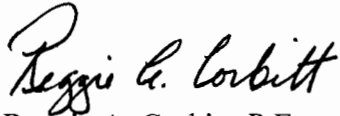
The purpose of this letter is to show compliance with the requirements found in 40 CFR 403.12(i) and the referenced NPDES permits issued to Little Rock Wastewater (LRW). During 2011, LRW continued activities pursuant to maintaining compliance with the General Pretreatment Regulations (40 CFR 403). Enclosed with this letter is the 2011 Annual Pretreatment Program Report.

Contained within Section III of the enclosed report is a summary of the number of industrial users that have been in significant violation or significant noncompliance since 1986. During 2011, no industry was in significant noncompliance with applicable pretreatment requirements according to criteria published in 40 CFR 403 and EPA, Region VI, policy on quarterly reviews of industrial user compliance.

Also included in this report is an update on LRW's industrial user list and LRW's Pretreatment Program Status Report outlining compliance, sampling, and inspection information. The following abbreviations are used in the Pretreatment Program Status Report: C = compliance, NC = noncompliance, SNC = significant noncompliance, RD = received, and NR = not required. LRW is also enclosing information on sampling results for influent and effluent wastewater and biosolids as required by our NPDES permits.

If you have any questions concerning any of the information submitted, or require additional information, do not hesitate to contact Stanley Suel at 688-1486, or me at 376-2903.

Sincerely,
LITTLE ROCK WASTEWATER



Reggie A. Corbitt, P.E.
Chief Executive Officer

cc: Rudy Molina, NPDES Permits and TMDLs Branch 6WQ-PP, US EPA Region 6
Stanley Suel, Director of Environmental Assessment
Stanley Miller, Manager of Operations
Jeff Davis, Pretreatment Supervisor
Susan Samples Ledbetter, Laboratory Supervisor
Walter Collins, Fourche Creek Superintendent

**LITTLE ROCK
WASTEWATER**

**2011 ANNUAL
PRETREATMENT
PROGRAM REPORT**

Submitted March 30, 2012

**LITTLE ROCK WASTEWATER
2011 ANNUAL PRETREATMENT PROGRAM REPORT**

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**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION**

**Industrial Pretreatment Program (IPP)
2011 Accomplishments**

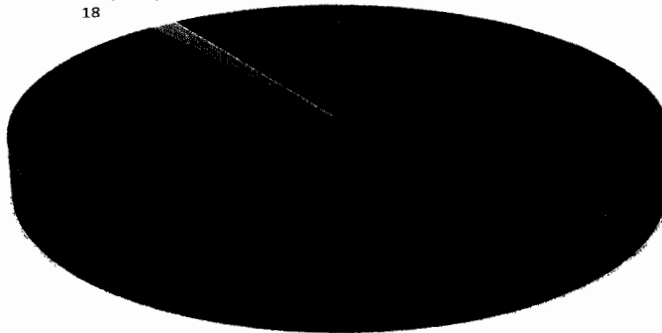
Environmental Assessment Division (EAD) carries out requirements of 40 Code of Federal Regulations Part 403 (40 CFR 403) General Pretreatment Regulations. Objectives of 40 CFR 403 are to prevent introduction of pollutants that interfere with Publicly Owned Treatment Works (POTW) operations and sludge disposal, and prevent introduction of pollutants that may pass through or be incompatible with the POTW system and protect worker safety.

Fifty-five (55) industries, with thirty-six (36) being Significant Industrial User (SIU) status (14 of the 36 were categorical, subject to federal pretreatment standards), held active Industrial Wastewater Discharge Permits. Permits issued by EAD provide a control mechanism for sampling, inspecting, and tracking compliance with applicable Federal, State, and Local regulations. Permit control documents or short term authorizations were also issued to Nineteen (19) non-SIU facilities for controlling and monitoring discharge requirements.

A total of 1226 inspections and investigations were conducted at industrial and commercial facilities. For industries subject to permit requirements, 170 inspections were conducted to evaluate compliance with the EAD Industrial Pretreatment Program. EAD also conducted 924 interceptor/trap program inspections at commercial facilities and 18 collection system investigations as measures to control discharge of prohibited solids and O&G. Sand/Grease Trap Inspections identified 103 items requiring corrective action. EAD conducted 114 inspections of diversion meters, used for non-sewered flow where users are allowed credit on sewer charges.

**Environmental Assessment Division
No. of Inspections Performed in 2011**

Collection System,
18



EAD was successful with addressing industry non-compliance and requiring necessary corrective measures to obtain a return to compliance. During 2011, twenty (20) Violation Reports were completed to track industry numeric violations for a return to compliance.

Whole effluent toxicity tests were conducted on final effluents at Adams Field (AFWTP), Fourche Creek FCWTP, and Little Maumelle (LMWTP) Wastewater Treatment Plants. No lethal or sub-lethal toxic effects were observed for either AFWTP or FCWTP final effluent at any required NPDES effluent test dilutions. There were no lethal toxic effects observed for LMWTP.

Extra strength surcharges for BOD/COD, TSS, O&G, and pH billed during the year totaled approximately \$1,158,683. The City of Little Rock Sanitary Sewer Committee's adoption of the Consolidated Fee Schedule allowed EAD to administer Industrial Pretreatment Program fees totaling \$96,296 (permits/inspection fees, special discharge fees, Trap Control Program). Additionally, Landfill Leachate billing was \$318,533 and hauled domestic liquid waste revenues totaled \$1,040 (Funding/Expenditure Report - end of this section).

During 2011, Little Rock Wastewater implemented and accomplished several pretreatment program activities:

Program Development

- The new Little Maumelle Wastewater Treatment Plant commenced wastewater treatment in the third quarter of 2011. This report includes required influent and effluent test data (NPDES AR 0050849 Part II.11.c.).
- Jeff Davis, Pretreatment Supervisor, attended the EPA Region VI Pretreatment Workshop August 1-4 as Past Chair for the Association Board. Jeff also served as Acting Chair at the Association Board Meetings and for point of contact for Hotel Management and finalized his tenure in the Association officer rotation on October 1, 2011. Jeff provided a presentation on Forms and Data Tracking at the Workshop.
- IPP Staff attended Pretreatment 101 webinars hosted by EPA:
 1. POTW's Procedures for Conducting Compliance Monitoring.
 2. Introduction to the National Pretreatment Program EPA.
 3. Overview of Pretreatment Standards and Local Limits Development.
 4. Biosolids Odor Control Webinar- Reducing Odors and Reliably Indicating Pathogen Levels.
- IPP Staff attended in house safety training classes for Right to Know, Confined Space Entry and RCRA-Hazardous Waste.
- IPP Staff completed preliminary 2011 Rate Survey Comparison for review. The rate survey compares four local industries sewer bill with eight (8) other cities in the region: Huntsville AL, St. Louis MO, Nashville TN, Memphis TN, Louisville TN, Austin TX, Jackson TN, and Oklahoma City OK:

- EAD drafted an Industrial Wastewater Discharge Permit Application to place on the LRW website. This version allows data to be input on the form online with cell locks providing integrity of the application.
- IPP Staff responded to Allen Gilliam, ADEQ, email question concerning classification of I-30 Tank Wash. Reference to 40 CFR 442, Transportation Equipment Cleaning and non-applicability was provided to Mr. Gilliam.
- LRW Pretreatment Ordinance on Right of Entry was provided to Mr. Gilliam, ADEQ. ADEQ was planning to conduct mercury monitoring, to establish background data, at the Arkansas Mission of Mercy, a free dental mission.
- IPP staff began evaluating all local industry/commercial facilities for ammonia chillers bulk storage and assessing spill control measures. Ammonia is toxic to aquatic life and un-neutralized discharges may result in a pH slug to the POTW.
- Cornelius Jones, Industrial Inspector, was chosen for the LRW Work Force Planning Program and attended Leadership Solution training functions. Allen Gatlin, Industrial Inspector, graduated from Leadership Solutions Program.
- IPP staff attended the 2011 AWW & WEA Conference, Short School, and Expo held May 2nd and 3rd in Hot Springs.
- Jeff Davis, Pretreatment Supervisor, made a presentation on the history of the LRW Pretreatment Program “then and now” at the Central District monthly meeting.
- IPP staff met LRW Instrumentation Supervisor to review information on annual sewer meter calibration statements and confirm EAD procedures for conducting on site meter verifications. Inspections can be scheduled with LRW Instrumentation to evaluate sewer meters and calibration/verification procedures.
- IPP staff provided annual biosolids lagoon sample collection and delivery and custody records. Biosolids disposed in 2011 were Class A Exceptional Quality. (see Section VIII).
- IPP Staff reviewed the EPA Guidance Documents on Permitting “Zero Discharge” facilities. Based on review EAD is currently permitting “Zero Discharge” facilities appropriately.
- Water Quality Standards for Little Maumelle WWTP were requested from Allen Gilliam, ADEQ. It was agreed WQS can be calculated once an average flow value is obtained from LMWWTP after March 2012.
- Notification of an update to Spill Notification Procedures of Industrial Wastewater Discharge Permits was provided to 51 Permitted IU's. The update removed a beeper number and added cell numbers for after normal working hour's notification.
- IPP Staff replenished Emergency Spill Kits for each of the treatment plants should an adverse or unknown pollutant enter the treatment plant during off hours or holidays. EAD supplies sampling bottles and preservation materials to Operations so samples can be collected of slug discharges to the plants. A new kit was established for Maumelle WWTP.

Industrial Relations

- In 2011, EAD mailed out Excellence Certificates to 42 permitted industrial users for perfect compliance.

- Special permitting in 2011:
 1. **Little Rock Powder Coating**, Industrial Wastewater Discharge Permit C-49 was closed. Little Rock Powder Coating is a zero discharge facility and is no longer conducting categorical processes.
 3. **Sage V Foods** Consent Compliance Schedule (issued 2010) to install heat exchangers to lower heat levels of the wastewater and reclaim heat for process water was completed. A new “Process Wastewater Lift Station” and High Strength Force Main to FCTP has been installed in accordance to Agreement between IU and LRW. The Wastewater Discharge Permit was renewed and includes an additional outfall for the high strength force main.
 4. As resolution to resolve non compliance, LRW obtained signatures from Douglas and Richard Blume, **I-30 Truck Wash**, on the Agreement to comply with Industrial Wastewater Discharge Permit N-42 Best Management Practices (BMP) and Interior Tank Washing Procedures. LRW goal is to remedy the chronic violations associated with the discharge of excessive solids to the sanitary sewer collection system. Frequent inspection indicates the IU is complying with permit management practices.
 5. **Welspun Tubular** submitted BMR for high pressure stripping operation for rework of the poly coated pipe. Sampling of permitted constituents showed compliance with all requirements. Operation is used on an intermittent basis using treatment and recirculated water. The high pressure water is baffle screened, roto screened, runs through a centrifuge and sock filters, cooling tower and stored in a 2000 gallon tank. The wastewater discharge connects to current permitted outfall for 40 CFR 433 approved wastewater.
 6. During permit renewal inspection at **Porocel Corporation**, review of the varying processes conducted at the facility raised concerns of metallic constituents used in products requested by customers. Permit now includes Chromium_(t), Copper_(t), Nickel_(t), Zinc_(t), Mercury_(t) and Arsenic_(t) effluent limitations.
 7. Permit modification for **Two Pines Landfill** permit to reflect changes in leachate storage and discharge was issued. The landfill has installed a final leachate tank farm that collects leachate from all cells prior to connecting to sewer force main to Jacksonville. A bypass valve was installed prior to the force main to allow transport trucks to haul to LRW AFTP as a secondary disposal option.
 8. Restricted Short Term Authorization (RSTA) was issued to **Delta Plastics** for batch discharge of 25,693 gallons of contact cooling tower water. FCTP Operations approved the RSTA, including a fee at \$0.10 per gallon based on EAD test data and inspection. The discharge was completed and the RSTA is closed.
 9. EAD drafted and mailed BMR requirement letter for the new **Accessories Marketing (Slime)** plant at 7511 Scott Hamilton. Accessories Marketing has submitted initial Industrial Wastewater Discharge Permit Application and will be a Federal Categorical Industry regulated under 40 CFR 414 Subpart K. The IU is storing wastewater in totes until approved for discharge.
 10. Restricted Short Term Authorization (RSTA) was issued **Ark Portable Toilets**, to haul portable toilet waste from Riverfest, May 27-29. The Authorization included HLW acceptance procedures to Adams Field WWTP. Project completed.
 11. **Dusty Mop and Mat** permit reclassified as nonsignificant user in June 2011.

- For 2011, no industry was in Significant Noncompliance (SNC) as defined by 40CFR403. Compliance Enforcement Action requiring corrective measures and return to compliance monitoring was conducted for all pretreatment standards and local limit violations listed in the table below:

Reported Pretreatment Violations

| IU | Sample Date | Monitoring Type | | Test Parameter | Reported Value | Violation of Max. Limit | |
|------------------------|-------------|-----------------|------|----------------|----------------|-------------------------|---------|
| | | LRW | Self | | | Daily | Monthly |
| Sage V Foods | 1/5/2011 | X | | pH | 4.48 S.U. | 5.0-12.0 S.U. | |
| Sage V Foods | 6/23/11 | X | | Temperature | 58° C | 54.4° C | |
| Sage V Foods | 7/12/11 | X | | Temperature | 60° C | 54.4° C | |
| Sage V Foods | 7/13/11 | X | | Temperature | 59° C | 54.4° C | |
| Sage V Foods | 7/14/11 | X | | Temperature | 62° C | 54.4° C | |
| Sage V Foods | 7/15/11 | X | | Temperature | 64° C | 55.4° C | |
| Sage V Foods | 7/19/11 | X | | Temperature | 65° C | 55.4° C | |
| Sage V Foods | 7/20/11 | X | | Temperature | 68° C | 55.4° C | |
| Sage V Foods | 7/21/11 | X | | Temperature | 58° C | 55.4° C | |
| Sage V Foods | 8/24/11 | X | | pH | 4.28 S.U. | 5.0-12.0 S.U. | |
| Sage V Foods | 11/22/11 | X | | pH | 4.43 S.U. | 5.0-12.0 S.U. | |
| Sage V Foods | 11/23/11 | X | | pH | 4.29 S.U. | 5.0-12.0 S.U. | |
| Sage V Foods | 11/29/11 | X | | pH | 4.44 S.U. | 5.0-12.0 S.U. | |
| Sage V Foods | 11/30/11 | X | | pH | 4.43 S.U. | 5.0-12.0 S.U. | |
| Sage V Foods | 12/1/11 | X | | pH | 4.83 S.U. | 5.0-12.0 S.U. | |
| Unilever | 6/1/2011 | X | | pH | 3.68 S.U. | 5.0-12.0 S.U. | |
| Odom's Tennessee Pride | 6-9-11 | X | | pH | 4.56 S.U. | 5.0-12-0 S.U. | |
| Porocel Corporation | 9/8/11 | X | | pH | 2.63 SU | 5.0-12.0 S.U. | |
| 1-30 Truck Wash | 9/15/11 | X | | pH | 4.67 S.U. | 5.0-12.0 S.U. | |
| Good Old Day's Foods | 11/29/11 | X | | pH | 3.96 S.U. | 5.0-12.0 S.U. | |

1. **Sage V Foods** pH violation 4.48 S.U (1/5/11). The chemical pump dispensing neutralization chemical was unable to maintain a pumping rate sufficient to accommodate the flow. The low pH duration was short based on in plant SCADA trend. IU returned to compliance.
2. **Sage V Foods** temperature violation (6/23/11) at the total point outfall. The facility has installed heat exchangers to assist in temperature regulation of process waste stream. Heat exchangers not in operation pending completion of the high strength waste line. In July temperature violations continued. Pretreatment room pit piping kept clogging around check valve locations. Repairs corrected the problem and allowed flow through the heat exchangers.

3. August sampling at **Sage V Foods** revealed a pH value of 4.28 S.U. at process. A pH was then tested from the total outfall point, and the value was 4.77 S.U. Contact was made to verify the IU neutralization was working. IU checked the pretreatment waste stream and found it at compliance levels.
4. **Sage V Foods**, a pH violation occurred at Outfall 172P-2 with reading 4.43 S.U. on November 22, 2011. Total point pH reading at 3.12 S.U. was obtained. A sample was taken at the Port Pump Station and showed a pH at 6.82 S.U. A site visit was conducted to discuss ongoing pH violations (5) occurring at the total point. New equipment was installed on the instant line for application of citric acid (powder). Operators were mixing the powder with water in a mixer and applied in the blancher. The overflow/catch basin connected to a floor drain. The concentration of the acid caused the violations. A Notice of Violation was mailed to the IU for 5 pH violations. IU has returned to compliance.
5. A pH violation 3.68 S.U. occurred at **Unilever** on 6-1-11. An investigation into the cause of the violation did not reveal a source. Return to compliance achieved.
6. **Odom's Tennessee Pride** had a pH violation on 6-9-11 with reported value of 4.56 S.U. Contacted to IU indicated the line feeding liquid caustic soda into the pretreatment system clogged preventing pH neutralization. Line cleaned and new pump installed. IU returned to compliance.
7. **Porocel Corporation** pH violation at 2.63 S.U. reported on 9/8/11. IU was contacted to investigate the incident. At LRW request IU checked pH of the two holding tanks (3,000 gallon each, in series serving as a sand/oil interceptor) for the Tri-Mer NO_x system. The pH of the east tank was 1.7 S.U. and west tank was 1.8 S.U. The entire Tri-Mer NO_x process was then shut down to prevent further discharge pending investigation. LRW check at downstream LRW Jameson pump station resulted with pH at 7.27 S.U. A grab sample was obtained from Porocel west holding tank and submitted for COD, Cr(t), Cu(t), Ni(t), Zn(t), and As(t) testing. Total flow pH returned to compliance at 5.51 S.U. Notice of Violation was sent to Porocel Corporation for discharging waste below permit parameters (pH) and for failure to notify LRW of the upset occurrence. LRW re-inspection of the Tri-Mer NO_x system showed corrective actions completed. EAD testing of metals showed compliance with permit limits. Porocel Corporation was given permission to resume operation and discharge.
8. LRW sampling (9/15/12) at I-30 Truck Wash revealed pH violation at 4.67 S.U. An old drum of acid used to clean chrome wheels started to leak to the wash bay. The drum was removed from the bay IU has returned to compliance.
9. EAD notified Mr. Rector, Production Supervisor, **Good Old Days Foods** of a pH violation that occurred during the take off of the sampling event. The pH reading was 3.96 S.U. at the time. Baking soda was not added at normal interval to allow time for pH adjustment. Follow up shows a return to compliance.

Inspection, IU Surveys, and Investigations

- Permitted facility investigations and corrective actions for compliance:
 1. Clay/chalk substance were removed in the line segments downstream of **Interstate 30 Tank Wash** by LRW vac truck. Due to magnitude and reoccurring

problem an NOV letter for violation of permit was mailed with corrective actions due on 1-10-11. A meeting was held with representatives from I-30 Tank Wash & Scales to discuss history and recent activities causing prohibitive discharges to the sanitary sewer. An Agreement was provided to state the IU will permanently discontinue tank interior wash operations if found to be in non compliance with prohibited discharges. LRW agreed to allow one final opportunity to operate in compliance if they sign the agreement.

2. **Porocel Corporation** reported trouble with their sewer meter for three consecutive months. Because of the continued problems, IU was advised the facility was in violation of Permit #N-71 Part II, Section C: Operation and Maintenance of Pollution Controls. The meter and pipe insert (trapezoidal flume) was sent back to the factory and repaired.
3. **Allied Waste Landfill** (BFI) notified LRW they were in an emergency situation with the leachate trunk line; it appeared blocked or frozen. Allied Waste was storing leachate in an emergency tank pending solution. Permission was granted to haul leachate to AFTP for disposal while a correction to the problem could be completed. Pollution Management Inc. (PMI) delivered nine (9) truck loads totaling 3,400 gallons of leachate and discharged the waste into the equalization basin at Operations request. LRW checked the IU connection point to the LRW system and LRW system was clear. The IU is permitted for direct discharge. Cyanide monitoring data was missing for the IUSM report. A resample was collected and submitted showing compliance.
4. **Arkansas Children's Hospital** requested approval to use glutaraldehyde in their disinfection system which cleans examination probes. They will purchase a neutralization system to reduce the glutaraldehyde concentration before discharge of 8 gallon batches 3 times per month. MSDS and product information was reviewed. Neutralization is an approved method for discharge of glutaraldehyde. Medivators Reprocessing System neutralization is conducted in accordance with instructions provided.
5. EAD conducted a collection system investigation to determine source of grease substance found in the AFTP grit removal hopper. Several industries were visited but no evidence of grease discharge was found. The investigation included facilities I-30 Tank Wash, Good Old Days Foods, Griffin Industries, and Odom's Tennessee Pride Sausage.
6. Due to Monday morning low pH fluctuations causing FCTP influent auto pH alarms, pumping cycles on SCDA were reviewed to investigate cause. Fluctuations were parallel to the Sage V HSW force main discharges. A sample was obtained at **Sage V** Outfall 01 and tested for pH, with a result of 7.11 S.U. A sample at the high strength waste line discharge into the head works showed pH at 3.19 S.U. Sage V Foods has altered their production schedule to not operate on weekends. The wastewater then goes septic in the LRW HSW line during weekend and is discharged Monday during start up. FCTP equalized the HSW by segregating and bleeding back to head works with alkalinity from lagoon decant until the IU resumed 7 day a week production.
7. An overflow at **Coleman Dairy** occurred from their pretreatment system. The facility has an EQ tank followed by a private pit where waste is pumped to a

private manhole, designated Outfall 01 by their permit. Due to a float failure, the pit overflowed. Contact was made with the Plant Manager. IU manually activated the pump and stopped the overflow. The overflow matter did not leave plant grounds and was cleaned up by the IU. While onsite regarding the overflow, stormwater inflow was noted in Outfall 01 through cracks in wall. A requirement was made to the Plant Manager to provide corrective actions to prevent further storm water inflow. Corrective actions completed.

8. AFTP experienced an elevated pH in influent Saturday, 3/26/2011. EAD Industrial Inspector, was called in to investigate. The influent pH began an upswing starting at 6.68s.u. The influent pH peaked at 8.76s.u. Samples collected by operator were tested for pH to confirm the inline meter had not drifted. Additional sampling/testing showed the pH level to recede to normal levels. Ordinance states discharges that may cause POTW influent to exceed 9.0s.u. is prohibited. Samples were collected for COD and ammonia. Calls were placed to Odom's Tennessee Pride and Ameripride Linen, two IUs on the North 40" main. Both industry were not operating.
9. **Odom's Tennessee Pride**, was contacted to enquire about operations conducted to resolve the slug pH discharge at Adam's Field Treatment plant on March 26, 2011. It was revealed that an ammonia chiller were serviced. IU claimed there was no discharge. The contractor, Cat Refrigeration, doing the service work was also contacted by EAD. Contractor reported no discharge occurred during work on chiller.
10. **Coca-Cola Bottling of Little Rock**, notified LRW of a 300 gallon slug load of Sprite Syrup released inadvertently during production. Typically, when a specific blend in put into production, the amount of syrup is made to create an exact amount of cans necessary to fill the order requested. It was determined the production line had run out of syrup and still had several cans remaining to be filled. Inspection was conducted and revealed a valve was inadvertently left slightly open, releasing small amounts of syrup into a floor drain during production run. IU estimated syrup discharge of 300 gallons based on remaining cans to be filled. Corrective actions included review of operator on subsequent production runs to verify the valve is checked. There was no known disruption of treatment at FCTP.
11. EAD visited LMWWTP to investigated a reported influent pH spike that occurred on 10/9/11 at 7:30 p.m. The pH made a direct drop from 6.6 to 4.8 stayed steady for 6 minutes then rose back up to 6.4. The characteristics of the spike indicate the source to be of close proximity. During the weekend the plant is unmanned. The spike effected the plant denitrification capability.
12. **Ozark Point Water Treatment Plant** installed a Hypochlorite Building to inject sodium hypochlorite for disinfection instead of using chlorine gas. A connection was made to the sanitary sewer to discharge waste in the event of a spill in the hypochlorite building. LRW required the valve to be locked closed until approval was given for discharge should a spill occur in the building. CAW has since disconnected this outfall to the sanitary sewer.

- Pretreatment staff surveyed industrial users during 2011 with some noted below:
 1. 2011 Industrial User Survey was conducted by staff. Possible candidates were screened from the following sources: A copy of the 2010 LR Business License printout, CAW water purchase report, ADEQ Hazardous Waste generators list, Chamber of Commerce 2011 Directory and Assets, and ATT&T Telephone Directory.
 2. Linko CTS was queried to determine IU facilities surveyed in 2005 to be added to the 2011 IU survey list.
 3. EAD conducted IU survey concerning Jewelry Manufacturing in response to construction plans showing electroplating equipment. EAD research indicates that this process for jewelry repair and retail shop manufacturing is very small (shot glass) and the (rhodium) solution and not discarded
 4. Stone (marble/granite) wet saw cutting inspections revealed this water is generally recirculated with cutting fines filtered or slug pressed. No discharge to sanitary sewer.
 - a. House of Marble 1010 Jessie Road
 - b. All Natural Stone 2225 Cottondale Lane
 - c. Inside Effects 4205 S Shackelford
 - d. Bedrock International 10 Clearwater Drive
 - e. Norwood Stone 13641 Cantrell Road
 5. EAD conducted survey review of the Little Maumelle Subbasin in preparation for the LMTP start-up. No industrial facilities were noted as a concern for the treatment plant.
 6. Slime facility construction plans were reviewed and rejected due to floor and trench drain in mix rooms and vat storage areas. Bryan Smith, Grover Beach California, requested the drains to remain so clean up of process and product vat storage rooms can be water cleaned. Plans remain rejected. EAD conducted inspection. IU proposed to sump pump all cleaning wastewater to the sanitary sewer. Two items were requested during inspection: Analytical data on the wastewater from the California plant and written procedures on spill slug/control. A survey form was forwarded to IU. EAD has reviewed submitted MSDS-Chemicals spill are to be contained and not disposed to sanitary sewer. Test data for cleaning wastewater will be necessary to evaluate pollutants of concern. EAD received IU survey screening form from Accessories Marketing (Slime Tire Sealant). Review 40 CFR 414 Organic Chemicals, Plastics, and Synthetic Fibers category indicates that based on the SIC Code provided, wastewater discharges will be subject to 40 CFR 414 subpart K. EAD met with IU representatives to discuss reviewed 40 CFR 414 (K) and explored issues related to permitting. The SIC code is the primary determining factor in permitting the industry under 40 CFR 414 (K). Allen Gilliam, ADEQ agreed to classification. EAD delivered a letter to IU Operations Manager which outlined requirements before discharge to the sanitary sewer could be authorized. Construction plans approved. IU stated that production would begin on Friday December 2, 2011 and that the proper piping and a holding tote would be in place- no process discharge. Inspections confirm IU is in operation but wastewater is routed by valve to holding tanks. A

- Permit Application has been received and a BMR is pending. Issuance of a Permit for wastewater subject to pretreatment standards is pending.
7. Novus International 7920 Sloane Drive- new process zero discharge.
 8. 3M. LRW met with representatives of 3M and FTN Associates for the purpose of the inspection of operations, confirm discharges to the Little Rock Wastewater collection system and inspect sewer meter operations and readings.
 9. QLL Equipment 3210 Baseline Rd- LRW conducted a site visit at QLL Equipment. QLL rebuilds and repairs cardboard and trash compactors and other related compacting bailing equipment at this facility. At this time there are no discharges other than domestic to the LRW collection system.
 10. Entergy 5001 Thibault Rd – LRW conducted survey inspection. This facility test and repair transformers, and clean and test the rubber PPE used by the linemen. Entergy operates a paint booth that utilizes a water curtain and holding tank which is batch discharged quarterly. Entergy received permission from LRW by letter dated April 23, 1996 to discharge this water providing the pH is neutralized.
 11. TGC, Inc. contacted EAD requesting conditions for a discharge permit. TGC cleans oil/water separators in many states, and are currently looking at getting the Wal Mart contract in Arkansas. Wal Mart requires full interceptor to be evacuated. In cities allowed TGC will put oils in one compartment, sludges in another, and return “grey water to sanitary sewer. TGC was informed this is not allowed in Little Rock. TGC plans to centralize the treatment of this grey water. I explained that such a system will be categorical under a Central Waste Treatment Rule (40CFR437).
 12. Industrial Oils Unlimited 5705 Patterson Rd. sale and distribute lubes of various kinds to local industries. On site are multiple silo containers and totes where lubes are stored. This facility did not appear in the Linko as being surveyed in the past. A wastewater survey form was delivered and returned to LRW.
 13. Hotfoot Xpress 4300 W. 65th St. storage and maintenance on the trucks is the principle business here. This is a new facility that did not appear in Linko database but will need to be added.
 14. Premier Fabrication, Inc 10224 Sibley Hole, Mabelvale, AR 72103. The facility conducts cutting, welding, and threads piping for various industrial uses and discharges domestic only.
 15. Westrock Engineered Products 3400 Old Shackelford Road –conducted survey inspection of the facility with no industrial concerns noted. Facility is a distribution location for brake and clutch plates manufactured out of state.
 16. EAD send IU Survey Form to Pratt Industries. IU is in the process of restarting a box forming and printing facility at 11610 Vimy Ridge formerly the site for Wes Pak.
 17. The Watkins Company, review of the MSDS revealed some chemicals of concern (ethylene glycol, naphtha, naphthalene, hydrogen peroxide); however, these chemicals are not stored in large quantities or near open floor drains. Use of chemicals is typically in small quantities near or around the presses. Inks are primarily soy oil and/or mineral oil with no metals content noted. Two (2) Regenerative Thermal Oxidizers (RTO) were noted in operation. Inspection of a manhole located behind the facility revealed odors not typical of domestic or

- commercial waste. EAD conducted Gas Detector readings. No limits were exceeded or explosive conditions detected. Site inspections - RTO in operation to remove VOC from the atmosphere within the facility typically found in print shop operations. The facility has eight (8) print presses each with four lines for a total of thirty two (32) print lines. The facility runs twenty four (24) hours a day, seven (7) days a week. Water consumption records less than SIU criteria
18. LRW survey inspection Vestcom Retail Solutions, 7304 Kanis Rd. Vestcom printing process does not consist of using wet inks, but dry toner only.
 19. Custom Direct, Inc 11501 Otter Creek South –abandoned printing operations in 2009. All equipment has been removed and the facility is only a call center.
 20. Other commercial survey and site visits that were added to the Linko FOG database:
 - a. Buster-Nathans 14710 Cantrell Rd.
 - b. All Aboard Café 6813 Cantrell Rd.
 - c. Ottenheimer Therapeutic 7201 Dahlia Dr.
 - d. Papa John’s Pizza 2000 S. University
 - e. Boulevard Bread Bakery 1417 S. Main St.
 - f. Kids Smart Educational Service 3516 Baseline Rd.
 - g. Independent Hotel 6100 S. University
 - h. Flash Mart 26213 Interstate 30
 - i. SJP Pit Stop (Valero) 3300 Bankhead Dr – EAD performed fixture count at SJP Pit Stop for determination if current grease interceptor sufficient for connection to the LRW Sanitary Sewer. The facility is currently on private septic tank. It was determined the existing grease interceptor was sufficient.
 21. The following are new installations approved by LRW Engineering and entered into the EAD data base:
 - a. North Point Nissan 1 Colonel Glenn Plaza
 - b. Cuisine of China 7316 Geyer Springs Road
 - c. Juanita’s 617 President Clinton Avenue
 - d. Flint Corner Shack 5405 Geyer Springs Road
 - e. Chick –fil-A 12610 Chenal Parkway
 - f. Arkansas Baptist College 1600 Martin Luther King Jr. Boulevard
 - g. Browning Restaurant 5805 Kavanaugh Boulevard
 - h. Love Fish Market 1401 John Barrow Road
 - i. Chipotle Mexican Grill 11525 Cantrell Road
 - j. AEDD Multi-Purpose Bldg 105 E. Roosevelt Road
 - k. Dempsey Bakery 323 Cross Street
 - l. Subway 8201 Ranch Boulevard
 - m. The Box 1023 W. 7th
 - n. HUDA Academy Gym 3221 Anna Street
 - o. Porter’s Café 315 Main Street
 - p. LR Healthcare & Rehab 5720 W. Markham
 - q. Andina Café 3rd & River Market Avenue
 - r. Wing City 1407 John Barrow Road
 - s. Cheddar’s Casual Café 400 S. University Avenue
 - t. Breckenridge Village Suite E3 10301 N. Rodney Parham Road

- u. Wolf Street Foundation 1015 S. Louisiana Street
 - v. Jimmy John's Gourmet Sandwiches 700 Broadway Street
 - w. Child Health Management Services 5 Remington Cove
 - x. Sims Fish & Chicken 2601 Confederate Boulevard
 - y. Sweet Things 315 N. Bowman Road
 - z. Sun Mart 3525 John Barrow Road
 - aa. Loves Country Store 11700 Interstate 30
 - bb. Oriental Supermarket 3901 S. University Avenue
 - cc. The Pizza Cafe' 1517 Rebsamen Park Road
 - dd. First Missionary Baptist Church 701 S. Gains Street
 - ee. TMS Properties Restaurant 221 2nd Street (Your Mama's Good Food)
 - ff. Taziki's Mediterranean Cafe' 12800 Chenal Pkwy Suite 18
- Grease related Sanitary Sewer Overflows (SSO) Collection System Investigations
 1. Grease related SSO Investigations revealed contributions are residential only:
 - a. LRW Manhole 6F072, 614 Palm Street 2011
 - b. LRW Manhole (-1E064) 11 Cherry Valley Dr.
 - c. The Berkley Apartment complex experienced an SSO in private manhole - 2E820.
 - d. LRW Manhole (6F020, 7E123) 4509 N. Lockout Rd.
 - e. LRW Manhole (9I010) 1622 Dennison St.
 - f. LRW Manhole 6E074/6E075 1923 N. Jackson St.
 - g. LRW Manhole 5N004 1 Sunnydale Dr.
 - h. 2415 S. Ringo St. LRW Manholes (11J173/11J176)
 - i. 8424 Crystal Valley CV. LRW Manholes (-4R060/-4R059) Area upstream of SSO was The Links of Eagle Hill Apartment Complex. The management staff was informed of the SSO and encouraged to participate in the Can the Grease program.
 - j. 11073 Bainbridge Dr. LRW Manholes (-2A060 - 2A059) 7911 Eagle Drive
 - k. LRW Manhole (2S030-2S029)
 - l. LRW Manhole (4J025) 63 Belmont Drive
 - m. LRW Manholes (-7I034—7I020) Hartford and Capitol Hill Blvd
 - n. 10800 Mara Lynn LRW Manholes (-2F057 / -1F001) - Upstream of the SSO is Terry Elementary School. There are two small grease traps in the floor located under the three compartment sinks.
 - o. LRW Manholes (1U011-1U012) 8516 Shiloh Dr. - SSO initial reported as a grease related overflow but the investigation and maintenance crews revealed the cause to be a maintenance item.

LRW Trap/Interceptor Program

LRW's Trap/Interceptor Program works to reduce the discharge of fats, oils, grease, and solids to the sanitary sewer. The types of facilities inspected perform food preparation and automotive maintenance. A summary of the activities performed for this program is included at the end of this section.

EAD conducted 950 inspections of some type of interceptor or trap. Of those inspections 11% (107) corrective action items were required to clean or repair the interceptor or trap.

A total of 136 Construction Plans were reviewed with fifty-five (55) Grease or Sand Interceptor Sizing Approvals Forms issued in 2011. This is an increase of 18% over 2010 plan reviews. EAD reviews all commercial construction plans for new facilities which may require a sand, grease, or lint interceptor.

**LITTLE ROCK WASTEWATER
 TRAP CONTROL SUMMARY**

| I. General Information | | | |
|-------------------------------|---|------------|----------------|
| Control Authority Name: | Little Rock Wastewater | | |
| Address: | 11 Clearwater Drive | | |
| City: | Little Rock | State/Zip: | Arkansas 72204 |
| Contact Person/Title: | Stanley Suel, EAD Director | | |
| Contact Telephone Number: | (501) 688-1486 | | |
| Reporting Period | January 1, 2011 through December 31, 2011 | | |

| II. Trap Control Compliance Monitoring | | |
|---|--|-----|
| 1. | Number of Trap Inspections Performed | 950 |
| 2. | Number of Traps Requiring Cleaning | 64 |
| 3. | Number of Traps Requiring Cleanout Replacement or Repair | 43 |
| 4. | Number of Traps Requiring Repair | 0 |
| 5. | Number of Facilities Requiring Trap Installation | 3 |

| III. Enforcement Actions | | |
|---------------------------------|--|---------|
| 1. | Number of Notice of Violations (NOV) Issued | 0 |
| 2. | Number of Compliance Orders and Schedules Issued | 0 |
| 3. | Number of Administrative Orders Issued | 0 |
| 4. | Number of Civil Suits Filed | 0 |
| 5. | Amount of Penalties Collected (Total Dollars) | 0 |
| 6. | Other Actions (occurrence fees) | \$3,005 |

**LITTLE ROCK WASTEWATER
PRETREATMENT PROGRAM
FUNDING/EXPENDITURE REPORT**

| | 2011 Actual | 2012 Estimated |
|--|--------------------|--------------------|
| Funding | | |
| Surcharge Program | \$1,158,683 | \$1,164,000 |
| Landfill Leachate Program | \$318,533 | \$324,904 |
| Permitted Industrial Wastewater Discharge Fees | \$58,989 | \$60,169 |
| Trap/Interceptor Control Program Fees | \$3,005 | \$3,065 |
| Domestic Septage Waste Hauler Fees | \$1,040 | \$1,061 |
| Landfill Permit Fees | \$2,550 | \$2,601 |
| Diversion / Sewer Meter Fees | \$16,548 | \$16,879 |
| HLW/Special Discharge-Restricted Short Term Fees | \$4,164 | \$4,247 |
| Total Funding | \$1,563,512 | \$1,576,926 |
| O&M Expenditures | | |
| Salary | | |
| Employee Salaries | \$547,501 | \$565,274 |
| Employee Benefits | \$220,197 | \$312,938 |
| Supplies/Maintenance | | |
| Supplies/Equipment Maintenance | \$31,617 | \$48,329 |
| Vehicle Maintenance | \$14,118 | \$17,182 |
| Other | | |
| Auto Liability | \$713 | \$900 |
| Training and Development | \$7,098 | \$2,675 |
| Contract Services | \$23,498 | \$19,960 |
| Telephone | \$4,825 | \$6,490 |
| Total O&M Expenditures | \$849,567 | \$973,748 |
| Capital Expenditures | | |
| Analytical Balance for EAD laboratory | \$1,709 | |
| Water Purification System | \$3,273 | |
| Total Capital Expenditures | \$4,982 | \$0 |
| Total Expenditures | \$854,549 | \$973,748 |

PRETREATMENT PERFORMANCE SUMMARY (PPS)

NOTE: ALL QUESTIONS REFER TO THE INDUSTRIAL PRETREATMENT PROGRAM AS APPROVED BY THE EPA. THE PERMITTEE SHOULD NOT ANSWER THE QUESTIONS BASED ON CHANGES MADE TO THE APPROVED PROGRAM WITHOUT EPA AUTHORIZATION.

I. General Information

| | | | |
|---|--|-----------|--------------|
| Control Authority Name | Little Rock Wastewater | | |
| Address | 11 Clearwater Drive | | |
| City | Little Rock | State/Zip | AR 72204 |
| Contact Person | Stanley Suel | Position | Director EAD |
| Contact Telephone Number | (501) 688-1486 | | |
| NPDES Permit No's. | AR 0040177, AR 0021806 and AR 0050849 | | |
| Reporting Period | January 1, 2011 through December 31, 2011 | | |
| Total Number of Categorical IUs | 14 | | |
| Total Number of Significant Non-categorical IUs | 22 | | |

II. Significant Industrial User Compliance

| | | Significant Industrial Users | |
|----|---|------------------------------|----------------|
| | | Categorical | Noncategorical |
| 1 | No. of SIUs Submitting BMRs/Total No. Required | 1 / 1 | 0 / 0 |
| 2 | No. of SIUs Submitting 90-Day Compliance Reports/No. Required | 0 / 0 | 0 / 0 |
| 3 | No. of SIUs Submitting Semiannual Reports/Total No. Required | 4 / 4 | 0 / 0 |
| 4 | No. of SIUs Meeting Compliance Schedule/Total No. Required to Meet Schedule | 1 / 1 | 0 / 0 |
| 5. | No. of SIUs in Significant Noncompliance/Total No. of SIUs | 0 / 14 | 0 / 22 |
| 6 | Rate of Significant Noncompliance for all SIUs | 0 / 36 | |

| III. Compliance Monitoring Program | | | |
|------------------------------------|--|------------------------------|----------------|
| | | Significant Industrial Users | |
| | | Categorical | Noncategorical |
| 2 | No. of Non-sampling Inspections Conducted | 15 | 41 |
| 3 | No. of Sampling Visits Conducted | 60 | 461 |
| 4 | No. of Facilities Inspected (non-sampling) | 14 | 22 |
| 5 | No. of Facilities Sampled | 9* | 22 |

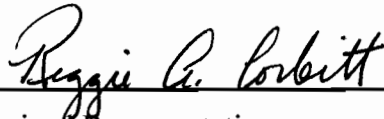
| IV. Enforcement Actions | | | |
|-------------------------|---|------------------------------|----------------|
| | | Significant Industrial Users | |
| | | Categorical | Noncategorical |
| 1 | No. of Compliance Schedules Issued/No. of Schedules Required | 0 / 0 | 0 / 0 |
| 2 | No. of Notices of Violations issued to SIUs | 0 | 2 |
| 3 | No. of Administrative Orders Issued to SIUs | 0 | 0 |
| 4 | No. of Civil Suits Filed | 0 | 0 |
| 5 | No. of Criminal Suits Filed | 0 | 0 |
| 6 | No. of Significant Violators (attach newspaper publication) | 0 | 0 |
| 7 | Amount of Penalties Collected (total dollars/IUs assessed) ** | \$0 | \$2,430/4 |
| 8 | Other Actions (sewer bans, etc.) | 0 | 0 |

* Categorical IU's: No regulated discharge, five (5) Not Sampled– Arkansas Painting and Specialty, Hillcrest Camshaft, Progress Rail Service, PPG (no flow) and LR Powder Coating. Sampled domestic/unregulated only four (4)- Cameron Valve, Dassault Falcon Jet, Central Jet Flying Service, and St. Vincent Hospital.

** LRW Consolidate Fee Schedule allows for non-compliance fees based on sampling, testing and inspection costs.

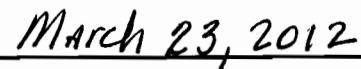
The following certification must be signed in order for this form to be considered complete:

In accordance with the certification statement found in the NPDES Permits issued to Little Rock Wastewater (Part II D. 11. c.): I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Authorized Representative

Reggie A. Corbitt, Chief Executive Officer



Date

**LITTLE ROCK WASTEWATER
SUMMARY OF INDUSTRIAL USER NONCOMPLIANCE
1986 THROUGH 2011**

| <u>Year</u> | <u>Number of IUs In Significant Violation or Significant Noncompliance</u> |
|-------------|--|
| 1986 | 18 – Significant Violation |
| 1987 | 9 – Significant Violation |
| 1988 | 8 – Significant Violation |
| 1989 | 4 – Significant Violation |
| 1990 | 4 – Significant Noncompliance |
| 1991 | 1 – Significant Noncompliance |
| 1992 | 2 – Significant Noncompliance |
| 1993 | 1 – Significant Noncompliance |
| 1994 | 3 – Significant Noncompliance |
| 1995 | 0 – Significant Noncompliance |
| 1996 | 0 – Significant Noncompliance |
| 1997 | 4 – Significant Noncompliance |
| 1998 | 1 – Significant Noncompliance |
| 1999 | 2 – Significant Noncompliance |
| 2000 | 3 – Significant Noncompliance |
| 2001 | 1 – Significant Noncompliance |
| 2002 | 2 – Significant Noncompliance |
| 2003 | 3 – Significant Noncompliance |
| 2004 | 1 – Significant Noncompliance |
| 2005 | 1 – Significant Noncompliance |
| 2006 | 1 – Significant Noncompliance |
| 2007 | 0 – Significant Noncompliance |
| 2008 | 1 – Significant Noncompliance |
| 2009 | 1 – Significant Noncompliance |
| 2010 | 0 – Significant Noncompliance |
| 2011 | 0 – Significant Noncompliance |

LITTLE ROCK WASTEWATER 2011 PRETREATMENT PROGRAM STATUS REPORT

| Facility Name | SIC | Categorical Determination | Control Document | | New User | Times Inspected | Times Sampled | Compliance Status | | | |
|--|--------------|---------------------------|-----------------------|-------------|----------|-----------------|---------------|-------------------|-----------------|-----------------|---------------------|
| | | | Last Action | Y/N | | | | 90 Day Compliance | Self Monitoring | Effluent Limits | |
| | | | BMR | Semi-Annual | | | | | | | |
| Arkansas Painting and Specialties | 3429 | 40 CFR 433 | RENEWED 01/01/2012 | Y | N | 1 | 0 | N/A | RD | RD | C-NO DISCHARGE |
| Central Flying Service | 4581 | 40 CFR 433 | RENEWED 9/1/2010 | Y | N | 1 | 4 | N/A | N/A | NR | NO 433 DISCHARGE |
| CertainTeed Corp. | 2952 | 40 CFR 443 | RENEWED 4/1/2010 | Y | N | 1 | 2 | N/A | RD | RD | C |
| Dassault Falcon Jet Corp. | 3728 | 40 CFR 433 | RENEWED 12/01/2010 | Y | N | 1 | 11 | N/A | RD | NR | NO 433 DISCHARGE |
| Millerest Camshaft Service, Inc. | 3714 | 40 CFR 433 | RENEWED 9/1/2010 | Y | N | 1 | 0 | N/A | RD | NR | NO 433 DISCHARGE |
| Interstate Highway Sign | 3993 | 40 CFR 433 | RENEWED 2/01/2012 | Y | N | 1 | 16 | N/A | RD | RD | C |
| Cameron Valve | 3544 | 40 CFR 433 | REVISED 10/1/2010 | Y | N | 1 | 13 | N/A | N/A | NR | NO 433 DISCHARGE |
| Progress Rail Services | 3562 3471 | 40 CFR 433 | RENEWED 5/01/2011 | Y | N | 1 | 0 | N/A | N/A | NR | NO 433 DISCHARGE |
| Hawker Beechcraft | 3721 | 40 CFR 433 | RENEWED 3/1/2010 | Y | N | 1 | 0 | N/A | N/A | NR | NO 433 DISCHARGE |
| L.R Powder Coating | 33281 | 40 CFR 433 | Closed 2-1-11 | N | Y | 1 | 0 | N/A | N/A | NR | Closed |
| PPG | 2851 | 40 CFR 446 | RENEWED 7/1/2010 | N | Y | 1 | 0 | N/A | N/A | NR | NO 446 DISCHARGE |
| St. Vincent Hospital | 8062 2834 | 40 CFR 439 | RENEWED 3/1/2008 | Y | N | 1 | 6 | N/A | RD | NR | NO 439 DISCHARGE |
| Tire Curing Bladders LLC | 3011 | 40 CFR 428 | RENEWED 1/1/2010 | Y | N | 1 | 3 | N/A | N/A | NR | NO 428 DISCHARGE |
| Welspun Tubular | 3317 | 40 CFR 433 | RENEWED 6/1/2010 | N | Y | 2 | 15 | RD 10/20/08 | RD | RD | C |

LITTLE ROCK WASTEWATER 2011 PRETREATMENT PROGRAM STATUS REPORT

| Facility Name | SIC | Categorical Determination | Control Document | | New User | Times Inspected | Times Sampled | Compliance Status | | | | |
|--|--------------|---------------------------|--------------------|-----|----------|-----------------|---------------|-------------------|-------------------|-----------------|-------------|-----------------|
| | | | Last Action | Y/N | | | | BMR | 90 Day Compliance | Reports | | Effluent Limits |
| | | | | | | | | | | Self Monitoring | Semi-Annual | |
| Ameripride Zinen and Apparel Services | 7218 | N/A | RENEWED 1/1/2012 | Y | N | 1 | 27 | | | By POTW | | C |
| Arkansas Childrens Hospital | 8062 | N/A | RENEWED 2/1/09 | Y | N | 1 | 29 | | | By POTW | | C |
| Arkansas Heart Hospital | 8062 | N/A | RENEWED 2/1/11 | Y | N | 21 | 24 | | | By POTW | | C |
| Arkansas Mental Health Services | 8063 | N/A | RENEWED 5/1/08 | Y | N | 1 | 25 | | | By POTW | | C |
| Baptist Med Center | 8062 | N/A | RENEWED 7/01/2010 | Y | N | 1 | 36 | | | By POTW | | C |
| Griffin Industries Thibault | 2077 4214 | N/A | REVISED 5/28/2010 | Y | N | 4 | 4 | | | By POTW | | C |
| Coca-Cola Bottling | 2086 | N/A | RENEWED 2/01/2011 | Y | N | 2 | 23 | | | By POTW | | C |
| Farmer Coleman Dairy | 2026 | N/A | RENEWED 10/01/2011 | Y | N | 2 | 49 | | | By POTW | | C |
| Dusty Mop and Mat | 7218 | N/A | RENEWED 6/1/2011 | Y | N | 1 | 8 | | | By POTW | | C |
| George Fischer Sloane | 3084 | N/A | RENEWED 11/1/2010 | Y | N | 1 | 3 | | | By POTW | | C |
| Jack Wilson WTP | 4941 | N/A | RENEWED 2/01/2010 | Y | N | 2 | 24 | | | By POTW | | C |
| Little Rock Central Laundry | 7218 | N/A | RENEWED 6/1/2011 | Y | N | 1 | 4 | | | By POTW | | C |
| Little Rock City Landfill | 4953 | N/A | RENEWED 4/01/2010 | Y | N | 1 | 4 | | | By POTW | | C |
| McChellan V/A Medical Hospital | 8062 | N/A | RENEWED 6/01/2011 | Y | N | 1 | 4 | | | By POTW | | C |
| Mountain Pure Holdings, L.L.C. | 5149 | N/A | RENEWED 1/1/2010 | Y | N | 2 | 8 | | | By POTW | | C |
| Odom's Tennessee Pride Sausage | 2013 | N/A | RENEWED 10/01/2010 | Y | N | 3 | 46 | | | By POTW | | NC-pH |
| Ozark Point WTP | 4941 | N/A | RENEWED 12/1/2011 | Y | N | 2 | 24 | | | By POTW | | C |

**LITTLE ROCK WASTEWATER
2011 PRETREATMENT PROGRAM STATUS REPORT**

| Facility Name | SIC | Categorical Determination | Control Document | | New User | Times Inspected | Times Sampled | Compliance Status | | | | |
|---|--------------|---------------------------|-----------------------|-----|----------|-----------------|---------------|-------------------|-------------------|-------------|-----------------|--------------------------|
| | | | Last Action | Y/N | | | | BMR | 90 Day Compliance | Reports | | Effluent Limits |
| | | | | | | | | | | Semi-Annual | Self Monitoring | |
| Petocel Corporation | 2819 | N/A | RENEWED 7/1/11 | Y | N | 2 | 9 | | | By POTW | | NC-pH |
| Sage V-Foods | 2038 2044 | N/A | RENEWED 9/1/11 | Y | N | 10 | 92 | | | By POTW | | NC - pH, Temp |
| St. Vincent/Doctors Hospital | 8062 | N/A | RENEWED 6/01/2011 | Y | N | 1 | 2 | | | By POTW | | C |
| Unilever | 2009 | N/A | RENEWED 12/01/2010 | Y | N | 1 | 14 | | | By POTW | | NC-pH |
| Univ. of Ark Med Center | 8062 | N/A | RENEWED 2/01/2008 | Y | N | 1 | 4 | | | By POTW | | e |

**LITTLE ROCK WASTEWATER
2011 INDUSTRIAL USER LIST**

| | |
|---|-----------|
| No. of Permitted IU's Classified as Federal Categorical | 14 |
| No. of Permitted IU's Classified as Significant Industrial Users | 22 |
| No. of Permitted IU's Classified as Non-Significant Industrial Users | 13 |
| No. of Special Permits for Landfill Leachate or RSTA | 6 |
| Total No. of IU's Permitted by LRW | 55 |

Categorical Industries

| Facility Name | Classification | Federal Cat. Standard No. | Manufacturing Process | Total Flow (gpd)avg | Work Days/Month | Routine Pollutant Monitoring/Other |
|--------------------------------------|-----------------------|----------------------------------|-----------------------------------|----------------------------|------------------------|--|
| Arkansas Painting and Specialties | Federal Categorical | 40 CFR 433 | Phosphate Coating | 734 | 22 | pH, Zn, CN, Ni, Cu, Pb, Cd, Cr, Ag |
| Cameron Valve | Federal Categorical | 40 CFR 433 | Steel Oil Field Valves | 36,105 | 22 | Zn, Pb, pH, Ni, Permit to discharge nonregulated wastewater |
| Central Flying Service - Little Rock | Federal Categorical | 40 CFR 433 | Aircraft Refurbishing | 3,590 | 30 | pH, Permit to discharge nonregulated wastewater |
| CertainTeed Corporation | Federal Categorical | 40 CFR 443 | Asphalt Rolled Roofing Production | 22,785 | 30 | TSS, O&G, pH |
| Dassault Falcon Jet Corp | Federal Categorical | 40 CFR 433 | Custom Jet Aircraft | 18,317 | 22 | BOD, COD, pH, Permit to discharge domestic wastewater |
| Hillcrest Camshaft Service, Inc. | Federal Categorical | 40 CFR 433 | Electroplating New Source | 783 | 22 | Permit to discharge domestic wastewater only |
| Interstate SignWays | Federal Categorical | 40 CFR 433 | Highway Signs | 5,174 | 22 | Cr, pH, Cu, Zn, Pb, Cd, Ni, Ag, CN(t) TTO |
| LR Powder Coating | Federal Categorical | 40 CFR 433 | Powder Coating | 0 | 22 | Permit to discharge domestic wastewater closed 2-1-11 |
| PPG | Federal Categorical | 40 CFR 446 | Paint and Coating | 4,330 | 22 | BOD, COD, TSS, O&G, pH, Permit to discharge domestic wastewater only |
| Progress Rail Services | Federal Categorical | 40 CFR 433 | Chrome Plating | 1,600 | 22 | Permit to discharge domestic wastewater only |
| Raytheon Hawker Beechcraft | Federal Categorical | 40 CFR 433 | Custom Jet Aircraft | 6,200 | 30 | Permit to discharge domestic wastewater only |
| St Vincent Hospital | Federal Categorical | 40 CFR 439 | Hospital/PETNET | 111,061 | 30 | COD, O&G, pH, Hg, BOD, TSS, |
| Tire Cure Bladders, LLC | Federal Categorical | 40 CFR 428 | Rubber Tire Curing Bladders | 20,564 | 30 | pH, Zn, Ni, CU, O&G, Permit to discharge nonregulated wastewater |
| Welspun Tubular | Federal Categorical | 40 CFR 433 | Spiral Pipe and Coating | 75,710 | 22 | Zn, Cr, Pb, pH, Cd, CN(t), Ni, Cu, Ag, BOD, COD, TSS, O&G, TTO |

**LITTLE ROCK WASTEWATER
2011 INDUSTRIAL USER LIST**

Significant Non-Categorical Industries

| Facility Name | Classification | Federal Cat. Standard No. | Manufacturing Process | Total Flow (gpd)avg | Work Days/Month | Routine Pollutant Monitoring/Other |
|---------------------------------|----------------|---------------------------|--------------------------------|---------------------|-----------------|---|
| Ameripride Linen and Apparel | SIU | | Laundry | 50,626 | 22 | BOD, COD, TSS, O&G, pH |
| Arkansas Children's Hospital | SIU | | Hospital | 68,776 | 30 | East: COD, TSS, pH, BOD, West: BOD, TSS, O&G, pH, Hg, Ag, COD |
| Arkansas Heart Hospital | SIU | | Hospital | 27,564 | 30 | BOD, TSS, O&G, pH, Hg, COD |
| Arkansas Mental Health Services | SIU | | Hospital | 15,317 | 30 | BOD, COD, TSS, pH |
| Baptist Med Center | SIU | | Hospital | 232,850 | 30 | BOD, COD, TSS, O&G, pH, Hg |
| Coca-Cola Bottling | SIU | | Soft Drink Bottling | 119,997 | 22 | BOD, COD, TSS, O&G, pH |
| Coleman Dairy | SIU | | Dairy Products & Bottled Water | 112,057 | 30 | BOD, COD, TSS, O&G, pH |
| Dusty Mop and Mat | SIU | | Industrial Laundry | 16,573 | 16 | BOD, COD, TSS, O&G, pH |
| George F. Sloane, Inc. | SIU | | Plastic Molding | 43,505 | 30 | BOD, COD, TSS, O&G, pH |
| Jack Wilson WTP | SIU | | Water Treatment Plant | 102,330 | 30 | BOD, COD, TSS, O&G, pH |
| Little Rock Central Laundry | SIU | | Industrial Laundry | 17,361 | 26 | BOD, COD, TSS, O&G, pH |
| Little Rock Landfill | SIU | | Municipal Landfill | 22,508 | 26 | As, Cd, Cu, Cr, Pb, Ni, Mo, Hg, Ag, Se, Zn, B, Mn, pH, CN (t), volatiles, pesticides, BOD, TSS, O&G |
| McClellan VA Hospital | SIU | | Hospital | 195,994 | 30 | COD, O&G, pH, Hg, Ag, BOD, TSS |
| Mountain Pure Holding | SIU | | Fruit Juice and Water Bottling | 33,572 | 30 | BOD, COD, TSS, O&G, pH |
| Griffin Industries Thibault Rd. | SIU | | Grease Recycling | 817 | 22 | BOD, COD, TSS, O&G, pH |
| Odom's Tennessee Pride Sausage | SIU | | Slaughter & Package Pork | 213,928 | 22 | BOD, COD, TSS, O&G, pH |
| Ozark Point WTP | SIU | | Water Treatment Plant | 48,435 | 30 | BOD, COD, TSS, O&G, pH |
| St. Vincent/Doctors Hospital | SIU | | Hospital | 39,394 | 30 | COD, pH, Ag, Hg, BOD, TSS, O&G |
| Unilever | SIU | | Peanut Butter | 31,436 | 22 | BOD, COD, TSS, O&G, pH |
| Porocel Corporation | SIU | | Mineral Milling | 1,702 | 30 | BOD, COD, TSS, Zn, As, Cu, Cr, Ni, Hg, pH, BOD |
| Sage V Foods | SIU | | Rice Cooking | 203,832 | 30 | BOD, TSS, O&G, pH, COD |
| Univ. of Ark Med Center | SIU | | Hospital | 373,626 | 30 | BOD, TSS, O&G, pH, Hg, Ag, COD |

**LITTLE ROCK WASTEWATER
2011 INDUSTRIAL USER LIST**

Non-Significant Industries

| Facility Name | Classification | Federal Cat. Standard No. | Manufacturing Process | Total Flow (gpd)avg | Work Days/Month | Routine Pollutant Monitoring/Other |
|---------------------------------------|----------------|---------------------------|-----------------------------|---------------------|-----------------|---|
| Arkansas Electric Cooperative | Non-SIU | | Electrical Equipment Repair | 250/Batch | 22 | PCB's, O&G, pH, Cu, Pb, Zn, Cd |
| Arkansas Dust Control & Linen Service | Non-SIU | | Industrial Laundry | 3,346 | 22 | BOD, COD, TSS, O&G, pH |
| BHMC- LR South Campus | Non-SIU | | Hospital | 779 | 30 | BOD, COD, TSS, O&G, pH, Ag, Hg |
| BFI Landfill | Non-SIU | | Landfill | 8,847 | 30 | As, Cd, Cu, Cr, Pb, Ni, Mo, Ba, Hg, Ag, Se, Zn, B, Mn, pH, CN ⁻ (t), 122 D |
| Clark Machinery | Non-SIU | | Construction Equipment | 1,125 | 22 | BOD, COD, TSS, O&G, pH |
| Democrat Printing and Litho | Non-SIU | | Printing Company | 4,037 | 22 | COD, BOD, pH, TSS, O&G |
| Diamond Bear Brewing | Non-SIU | | Beer Brewery | 2,366 | 24 | BOD, COD, TSS, O&G, pH |
| Good Old Days Foods | Non-SIU | | Frozen Fruit Cobbler | 5,335 | 22 | BOD, COD, TSS, O&G, pH |
| Griffin Industries | Non-SIU | | Pork Hide Drying | 371 | 22 | BOD, COD, TSS, O&G, pH |
| I-30 Tank Wash | Non-SIU | | Truck Wash | 1,689 | 22 | BOD, COD, TSS, O&G, pH |
| Martinous Oriental Rug | Non-SIU | | Retail Rug Sales & Cleaning | 145 | 22 | pH 1/6 Month |
| Phelps Fan | Non-SIU | | Fan Manufacturer | 5400 / Batch | 22 | pH, Cr, Ni, Cu |
| Ryerson | Non-SIU | | Metal Fabrication | 156 | 30 | pH, Cu, Zn |

Landfill Leachate and Restricted Short Term Authorizations

| Facility Name | Classification | Federal Cat. Standard No. | Manufacturing Process | Total gal/2011 | Work Days/Month | Routine Pollutant Monitoring/Other |
|-----------------------------------|-----------------|---------------------------|-------------------------------|------------------|-----------------|--|
| Two Pine Landfill | Special Non-SIU | | Landfill -HLW | 0 | 30 | As, Cd, Cu, Cr, Pb, Ni, Mo, Hg, Ag, Se, Zn, B, Mn, pH, CN ⁻ (t), O&G, Vol Pest TCLP |
| Jefferson County Landfill | Special Non-SIU | | Landfill -HLW | 0 | 30 | As, Cd, Cu, Cr, Pb, Ni, Mo, Hg, Ag, Se, Zn, B, Mn, pH, CN ⁻ (t), O&G, Vol Pest TCLP |
| Ozark Ridge Landfill | Special Non-SIU | | Landfill -HLW | 0 | 30 | As, Cd, Cu, Cr, Pb, Ni, Mo, Hg, Ag, Se, Zn, B, Mn, pH, CN ⁻ (t), O&G, Vol Pest TCLP |
| Arkansas Port Toilets | RSTA | | Portable | 6000 / Truck | N/A | Approved domestic Only |
| Jones & Sons Mobile Pressure Wash | RSTA | | Pressure Washer | 500 gal Tank | N/A | Approved Wash Water Only |
| Delta Plastics | RSTA | | Plastic Field Irrigation Pipe | 25,693 gal batch | N/A | COD |

SUMMARY OF ANALYTICAL RESULTS

INFLUENT AND EFFLUENT ANALYSES OF TREATMENT PLANTS

Priority Pollutant Scans were conducted on the Adams Field, Fourche Creek, Little Maumelle Wastewater Treatment Plant influent and effluent flows in accordance with our NPDES permit requirements. Compounds analyzed include metals, cyanide, phenols, volatile organics, base/neutral and acid extractable organics, and Pesticides/PCBs. Results of the analyses are organized in tables in the following order:

- AFWTP 2011 Sample Results - This Section includes required test data for parameters from 40 CFR Part 122, Appendix D, Table III. Sampling and testing frequency requirements for Table III parameters are quarterly (NPDES Permit AR 0021806 Part III). Influent and effluent samples were collected with respect to the detention time across the treatment plant for the sampling events. Table III parameters include total arsenic, cadmium, copper, chromium, lead, mercury, nickel, silver, selenium, zinc, antimony, thallium, beryllium, cyanide and phenols. Other parameters collected quarterly include molybdenum and oil and grease.
- FCWTP 2011 Sample Results - This Section includes required test data for parameters from 40 CFR Part 122, Appendix D, Table III. Sampling and testing frequency requirements for Table III parameters are quarterly (NPDES Permit AR 0040177 Part II). Influent and effluent samples were collected with respect to the detention time across the treatment plant for the sampling events. Table III parameters include total arsenic, cadmium, copper, chromium, lead, mercury, nickel, silver, selenium, zinc, antimony, thallium, beryllium, cyanide and phenols. Other parameters collected quarterly include molybdenum and oil and grease.
- LMWTP 2011 Sample Results - Little Maumelle began operations in the third quarter of 2011. This section includes required test data for parameters from 40 CFR Part 122, Appendix D, Table III. Sampling and testing frequency requirements for Table III parameters are quarterly (NPDES Permit AR 0050849 Part II). Influent and effluent samples were collected with respect to the detention time across the treatment plant for the sampling events. Table III parameters include total arsenic, cadmium, copper, chromium, lead, mercury, nickel, silver, selenium, zinc, antimony, thallium, beryllium, cyanide and phenols. Other parameters collected quarterly include molybdenum and oil and grease.
- Treatment Plant Removal Efficiencies - Includes the metals removal rates for the Adams Field, Fourche Creek and Little Maumelle Wastewater Treatment Plants.
- LRWU 2011 Priority Pollutant Scan - Organic Fractions - Includes required test data from 40 CFR Part 122, Appendix D, Table II divided into two parts. The first part identifies the positive measurements of organic compounds in the influent and effluent from all three treatment plants from 2011. Part II includes a summary of positive measurements from 1991 through 2011 for Fourche Creek and Adams Field Plants. Table II monitoring frequency for 2011 is once per year for all three Plant

influent and effluent in accordance with the NPDES permit (NPDES Permits AR 0021806, AR 0040177, and AR 0050849). Organic fraction charts trend detections for 1991 through 2011 for the Adams Field and Fourche Creek Plants.

- Treatment Plant 1994-2011 Concentration Trends – This section includes graphs showing Adams Field and Fourche Creek influent and effluent concentration trends for the past eighteen years. Some peaks may be due to changes in test methods and detection limits. There are no charts for Little Maumelle data with no past years data to trend.

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2011 TO DECEMBER 31, 2011

TREATMENT PLANT: CITY OF LITTLE ROCK - ADAMS FIELD WASTEWATER TREATMENT PLANT

NPDES PERMIT NO.: AR0021806

AVERAGE POTW FLOW: 27.00 MGD PERCENT (%) IU FLOW: 5.7 %

| PLANT INFLUENT | Flow MGD | O&G mg/L | CN mg/L | Zn mg/L | Cd µg/L | Cr µg/L | Ag µg/L | Cu µg/L | Mo µg/L | Ni µg/L | Pb µg/L | As µg/L | Se µg/L | Hg µg/L | Phenol µg/L | Sb mg/L | Be mg/L | Tl mg/L | Mn mg/L | Ba mg/L | B mg/l |
|--|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|----------|----------|----------|----------|--------|
| | | | | | | | | | | | | | | | | | | | | | |
| <small>SEWERAGE</small> <small>EPA Test Method Used</small> | | | | | | | | | | | | | | | | | | | | | |
| <small>Detection Level Achieved</small> | | | | | | | | | | | | | | | | | | | | | |
| 1/12-13/2011 | 21.93 | 5 | 0.0014 | 0.069 | < 0.5 | 10 | 0.6 | 19 | 8 | 0.9 | 1.4 | 0.5 | 5 | 16311 | 4201 | 0.08 | 0.0005 | 0.0005 | 0.002 | 0.002 | 0.1 |
| 2/22-23/2011 | 22.63 | 35.0 | < 0.0014 | 0.069 | < 0.5 | 10 | 0.6 | 19 | 8 | 0.9 | 1.4 | 0.5 | 5 | 0.07770 | 45 | < 0.060 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.13 |
| 4/5-6/2011 | 36.28 | 12.0 | < 0.0014 | 0.170 | 1.6 | 10 | 1.8 | 40 | 8 | 4.9 | 5.9 | 1.5 | 5 | 0.08077 | 23 | < 0.060 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.13 |
| 4/19-20/2011 | 24.18 | | | 0.180 | < 0.5 | 15 | 2.8 | 54 | 8 | 6.5 | 5.5 | 2.7 | 5 | | | < 0.060 | < 0.0005 | < 0.0005 | < 0.0005 | 0.76 | 0.05 |
| 7/19-20/2011 | 18.41 | | | 0.160 | < 0.5 | 11 | 2.7 | 63 | 8 | 6.0 | 4.9 | 4.2 | 5 | 0.15700 | 21 | < 0.060 | < 0.0005 | < 0.0005 | < 0.0005 | 0.76 | 0.05 |
| 8/31-9/1/2011 | 17.12 | 35.0 | < 0.0014 | | | | | | | | | | | | | | | | | | |
| 10/11-12/2011 | 15.86 | 55.0 | < 0.0014 | | | | | | | | | | | | | | | | | | |
| 12/12-13/2011 | 18.25 | 55.0 | < 0.0014 | | | | | | | | | | | 0.05020 | 26 | < 0.060 | < 0.0005 | < 0.0005 | < 0.0005 | 0.76 | 0.05 |
| Average | 21.83 | 34.3 | < 0.0014 | 0.145 | 0.8 | 12 | 2.0 | 44 | 8 | 4.6 | 4.4 | 2.2 | 5 | 0.09142 | 29 | < 0.060 | < 0.0005 | < 0.0005 | 0.76 | 0.05 | 0.13 |
| Maximum | 36.28 | 55.0 | < 0.0014 | 0.180 | 1.6 | 15 | 2.8 | 63 | 8 | 6.5 | 5.9 | 4.2 | 5 | 0.15700 | 45 | < 0.060 | < 0.0005 | < 0.0005 | 0.76 | 0.05 | 0.13 |
| Minimum | 15.86 | 12.0 | < 0.0014 | 0.069 | < 0.5 | 10 | 0.6 | 19 | 8 | 0.9 | 1.4 | 0.5 | 5 | 0.05020 | 21 | < 0.060 | < 0.0005 | < 0.0005 | 0.76 | 0.05 | 0.13 |
| Headworks limit | | 0.09 | | 0.36 | 9.0 | 260.0 | 180.0 | 270 | 160 | 50 | 14 | 10 | | 0.2 | | | | | | | |

Comments: None

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2011 TO DECEMBER 31, 2011

TREATMENT PLANT: CITY OF LITTLE ROCK - ADAMS FIELD WASTEWATER TREATMENT PLANT

NPDES PERMIT NO.: AR0021806

AVERAGE POTW FLOW: 27.00 MGD

PERCENT (%) IU FLOW: 5.7 %

| FINAL EFFLUENT | Flow MGD | O&G mg/L | CN- mg/L | Zn mg/L | Cd µg/L | Cr µg/L | Ag µg/L | Cu µg/L | Mn µg/L | Ni µg/L | Pb µg/L | As µg/L | Se µg/L | Hg µg/L | Phenol µg/L | Sb mg/L | Be mg/L | Tl mg/L | Mn mg/L | Ba mg/L | B mg/L |
|--|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|---------|---------|---------|---------|---------|--------|
| <small>EPA Test Method Used</small> <small>1064A</small> <small>1064A</small> <small>8230b-156a</small> <small>Cd-1</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> <small>2008</small> | | | | | | | | | | | | | | | | | | | | | |
| <small>Detection Level Achieved</small> <small>5</small> <small>0.0014</small> <small>0.02</small> <small>0.5</small> <small>0.5</small> <small>10</small> <small>0.5</small> <small>0.5</small> <small>0.5</small> <small>8</small> <small>0.5</small> <small>0.5</small> <small>0.5</small> <small>5</small> <small>0.0002</small> <small>5</small> <small>0.06</small> <small>0.0005</small> <small>0.0005</small> <small>0.0002</small> <small>0.002</small> <small>0.1</small> | | | | | | | | | | | | | | | | | | | | | |
| 1/12-13/2011 | 17.02 | < | 0.020 | < | 0.5 | < | 10 | < | 8 | 2.3 | 0.6 | < | 5 | 0.00371 | < | 0.060 | < | 0.0005 | < | 0.0005 | < |
| 2/22-23/2011 | 17.96 | < | 5.0 | < | 0.0014 | | | | | | | | | 0.00371 | 13 | | | | | | |
| 4/5-6/2011 | 26.93 | < | 5.0 | < | 0.0015 | | | | | | | | | 0.00381 | 7 | | | | | | |
| 4/19-20/2011 | 20.83 | < | 0.020 | < | 0.5 | < | 10 | < | 8 | 2.1 | 0.5 | < | 5 | < | 0.060 | < | 0.0005 | < | 0.0005 | < | 0.12 |
| 7/19-20/2011 | 16.58 | < | 0.025 | < | 0.5 | < | 10 | < | 8 | 2.9 | 0.8 | 0.8 | < | 5 | < | 0.060 | < | 0.0005 | < | 0.0005 | 0.47 |
| 8/31-9/1/2011 | 14.17 | < | 5.0 | < | 0.0016 | | | | | | | | | 0.00577 | 9 | | | | | | 0.14 |
| 10/11-12/2011 | 11.94 | < | 5.0 | < | 0.0014 | | | | | | | | | 0.00585 | 19 | | | | | | 0.12 |
| 12/11-12/2011 | 21.03 | < | 5.0 | < | 0.0014 | | | | | | | | | 0.00585 | 19 | | | | | | 0.12 |
| Average | 18.31 | < | 5.0 | < | 0.0015 | | | | 8 | 2.7 | 0.7 | 0.8 | < | 5 | 0.00479 | 12 | < | 0.060 | < | 0.0005 | 0.47 |
| Maximum | 26.93 | < | 5.0 | < | 0.0016 | | | | 8 | 3.5 | 0.76 | 1.2 | < | 5 | 0.00585 | 19 | < | 0.060 | < | 0.0005 | 0.47 |
| Minimum | 11.94 | < | 5.0 | < | 0.0014 | | | | 8 | 2.1 | 0.5 | 0.5 | < | 5 | 0.00371 | 7 | < | 0.060 | < | 0.0005 | 0.47 |
| WQS Effluent Level | | | | | | | | | | | | | | | | | | | | | |
| Day Max. | | 0.058 | 1.700 | 54.0 | 11200.0 | 57.0 | 214 | 4990 | 198 | 2380 | 56 | 0.1 | | | | | | | | | |
| Month. Avg. | | 0.029 | 0.850 | 27.0 | 5590.0 | 28.0 | 106 | 2490 | 98 | 1190 | 28 | 0.07 | | | | | | | | | |

Comments: None

**MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2011 TO DECEMBER 31, 2011**

TREATMENT PLANT: CITY OF LITTLE ROCK - FOURCHE CREEK WASTEWATER TREATMENT PLANT

NPDES PERMIT NO.: AR0040177

AVERAGE POTW FLOW: 9.53 MGD

PERCENT (%) IU FLOW: 8.1 %

| PLANT | Flow | O&G | CN- | Zn | Cd | Cr | Ag | Cu | Mo | Ni | Pb | As | Se | Hg | Phenol | Sb | Be | Tl | Mn | Ba | B | |
|------------------------|------|--------|-------------|---------|--------|--------|-------|--------|-------|-------|--------|--------|-------|---------|--------|-------|---------|----------|--------|-------------|-------|-------|
| INFLUENT | MGD | mg/L | mg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| | | 1664A | SM/300-4500 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 16511 | 420.1 | 200.8 | 200.8 | 200.8 | 200.8 | 200.7/200.8 | 200.8 | 200.8 |
| | | 5 | 0.0014 | 0.002 | 0.5 | 10 | 0.5 | 0.5 | 8 | 0.5 | 0.5 | 0.5 | 5 | 0.0002 | 5 | 0.06 | 0.0005 | 0.0005 | 0.002 | 0.002 | 0.002 | 0.1 |
| | | 5 | 0.0014 | 0.002 | 0.5 | 10 | 0.5 | 0.5 | 8 | 0.5 | 0.5 | 0.5 | 5 | 0.0002 | 5 | 0.06 | 0.0005 | 0.0005 | 0.002 | 0.002 | 0.002 | 0.1 |
| | | 5 | 0.0014 | 0.002 | 0.5 | 10 | 0.5 | 0.5 | 8 | 0.5 | 0.5 | 0.5 | 5 | 0.0002 | 5 | 0.06 | 0.0005 | 0.0005 | 0.002 | 0.002 | 0.002 | 0.1 |
| 1/12-13/2011 | 6.20 | | | 0.110 < | 0.50 < | 10 < | 0.5 | 23.0 < | 8 | 1.2 | 5.60 < | 0.50 < | 5 | 0.04350 | | < | 0.060 < | 0.0005 < | 0.0005 | | | |
| 2/22-23/2011 | 8.74 | 45.0 < | 0.0014 | | | | | | | | | | | | 89 | | | | | | | |
| 4/5-6/2011 | 8.94 | 8.6 | 0.0017 | | | | | | | | | | | 0.03715 | 71.2 | | | | | | | |
| 4/19-20/2011 | 8.57 | | | 0.480 < | 0.50 | 11 | 1.2 | 47.0 < | 8 | 11.0 | 5.90 | 0.83 < | 5 | | | < | 0.060 < | 0.0005 < | 0.0005 | | | |
| 7/20-21/2011 | 6.98 | | | 0.230 < | 0.50 | 12 | 0.9 | 58.0 < | 8 | 8.8 | 5.70 | 2.50 < | 5 | | | < | 0.060 < | 0.0005 < | 0.0005 | 0.490 | 0.054 | 0.14 |
| 8/31-9/1/2011 | 7.40 | 59.0 < | 0.0014 | | | | | | | | | | | 0.18600 | 158 | | | | | | | |
| 10/11-12/2011 | 6.75 | | | 0.220 < | 0.50 | 14 | 2.2 | 64.0 < | 8 | 7.9 | 9.40 | 2.60 < | 5 | | | < | 0.060 < | 0.0005 < | 0.0005 | | | |
| 12/12-13/2011 | 9.76 | 26.0 < | 0.0014 | | | | | | | | | | | 0.02610 | 50 | | | | | | | |
| Average | 7.92 | 34.7 | 0.0015 | 0.260 < | 0.50 | 11.8 | 1.2 | 48.0 < | 8 | 7.2 | 6.65 | 1.61 < | 5 | 0.07319 | 92 | < | 0.060 < | 0.0005 < | 0.0005 | 0.490 | 0.054 | 0.14 |
| Maximum | 9.76 | 59.0 | 0.0017 | 0.480 < | 0.50 | 14.0 | 2.2 | 64.0 < | 8 | 11.0 | 9.40 | 2.60 < | 5 | 0.18600 | 158 | < | 0.060 < | 0.0005 < | 0.0005 | 0.490 | 0.054 | 0.14 |
| Minimum | 6.20 | 8.6 < | 0.0014 | 0.110 < | 0.50 < | 10.0 < | 0.5 | 23.0 < | 8 | 1.2 | 5.60 < | 0.50 < | 5 | 0.02610 | 50 | < | 0.060 < | 0.0005 < | 0.0005 | 0.490 | 0.054 | 0.14 |
| Headworks limit | | 0.09 | | 0.360 | 9.0 | 260.0 | 180.0 | 270 | 160 | 50 | 14 | 10 | | 0.2 | | | | | | | | |

Comments: None

**MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2011 TO DECEMBER 31, 2011**

TREATMENT PLANT: CITY OF LITTLE ROCK - FOURCHE CREEK WASTEWATER TREATMENT PLANT

NPDES PERMIT NO.: AR0040177

AVERAGE POTW FLOW: 9.53 MGD PERCENT (%) IU FLOW: 8.1 %

| FINAL EFFLUENT | Flow MGD | O&G mg/L | C:N- mg/L | Zn mg/L | Cd mg/L | Cr mg/L | Ag mg/L | Cu mg/L | Mo mg/L | Ni mg/L | Pb mg/L | As mg/L | Se mg/L | Hg mg/L | Phenol µg/L | Sb mg/L | Be mg/L | Tl mg/L | Mn mg/L | Ba mg/L | B mg/L | | |
|---------------------------|-----------------------------|----------|-----------------|---------------|-------------|----------|---------|---------|---------|---------|---------|---------|---------|-----------------|-------------|---------|---------------------|-----------------|---------------|---------------|--------|--------|---------|
| | EPA Test Method Used | 1664A | SM2001-2000 C&I | 200.7200 X | 7191A/200 X | 200 X | 200 X | 200 X | 200 X | 200 X | 200 X | 200 X | 200 X | 16311 / 245.7 | 420.1 | 200 X | 1118773031A / 200 X | 200 X | 200.7 / 200 X | 200.7 / 200 X | 200 X | | |
| | Detection Level of Achieved | 5 | 0.0014 | 0.0025 / 0.02 | 0.5 | 1.0 / 10 | 0.5 | 0.5 | X | 0.5 | 0.5 | 0.5 | 5 | 0.0002 / 0.0018 | 3 | 0.06 | 0.0005 | 0.0001 / 0.0005 | 0.002 | 0.002 | 0.1 | | |
| 1/12-13/2011 | 7.63 | < | < | 0.020 | < | 10 | < | 0.5 | 1.7 | < | 8 | 3.2 | < | 0.50 | < | 0.060 | < | 0.0005 | < | 0.0005 | | | |
| 2/22-23/2011 | 9.56 | < | 5.0 | 0.0038 | | | | | | | | | | | 13.6 | | | | | | | | |
| 4/5-6/2011 | 10.11 | < | 5.0 | 0.0034 | | | | | | | | | | | 5.3 | | | | | | | | |
| 4/20-21/2011 | 10.90 | < | < | 0.020 | < | 10 | < | 0.5 | 3.2 | < | 8 | 4 | 0.66 | < | 0.50 | < | 0.060 | < | 0.0005 | < | 0.0005 | | |
| 7/19-20/2011 | lost | | | | | | | | | | | | | | | | | | | | lost | | |
| 8/31-9/1/2011 | 8.91 | 7.0 | 0.0017 | 0.023 | < | 10 | < | 0.5 | 3.3 | < | 8 | 4.3 | 3.00 | 1.10 | < | 5 | 0.00315 | 11.4 | < | 0.060 | < | 0.0005 | 0.00081 |
| 10/12-13/2011 | 8.84 | < | < | 0.020 | < | 10 | < | 0.5 | 2.7 | < | 8 | 3.8 | 0.86 | 1.30 | < | 5 | < | 0.060 | < | 0.0005 | < | 0.0005 | |
| 12/12-13/2011 | 12.26 | < | 5.0 | < | 0.0014 | | | | | | | | | | 24 | | | | | | | | |
| Average | 9.74 | 5.5 | 0.0026 | 0.021 | < | 10 | < | 0.5 | 2.7 | < | 8 | 3.8 | 1.26 | 0.85 | < | 5 | 0.00266 | 14 | < | 0.060 | < | 0.0005 | 0.0006 |
| Maximum | 12.26 | 7.0 | 0.0038 | 0.023 | < | 10 | < | 0.5 | 3.3 | < | 8 | 4.3 | 3.00 | 1.30 | < | 5 | 0.00315 | 24 | < | 0.060 | < | 0.0005 | 0.0008 |
| Minimum | 7.63 | < | 5.0 | < | 0.0014 | < | 10 | < | 0.5 | < | 8 | 3.2 | < | 0.50 | < | 5 | 0.00238 | 5 | < | 0.060 | < | 0.0005 | 0.0005 |
| WQS Effluent Level | | | | | | | | | | | | | | | | | | | | | | | |
| Day Max. | | 0.116 | 4.94 | 107 | 23500 | 165 | 619 | 9980 | 395 | 6900 | 112 | 0.27 | | | | | | | | | | | |
| Month Avg. | | 0.058 | 2.46 | 53 | 11700 | 82 | 309 | 4980 | 197 | 3440 | 56 | 0.14 | | | | | | | | | | | |

Comments: None

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2011 TO DECEMBER 31, 2011

TREATMENT PLANT: CITY OF LITTLE ROCK -LITTLE MAUMELLE WASTEWATER TREATMENT PLANT

NPDES PERMIT NO.: AR0050849

AVERAGE POTW FLOW: 2.42 MGD PERCENT (%) IU FLOW: 0 %

| PLANT | Flow | O&G | CN | Zn | Cd | Cr | Ag | Cu | Mo | Ni | Pb | As | Se | Hg | Phenol | Sb | Bc | TI |
|--------------------------|------|---------------|--------|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|---------|---------|----------|----------|
| INFLUENT | MGD | mg/L | mg/L | mg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | mg/L | mg/L |
| EPA Test Method Used | | 1964A | 1964A | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 16311 | 420.1 | 200.8 | 200.8 | 200.8 |
| Detection Level Achieved | | 5 | 0.0014 | 0.02 | 0.5 | 10 | 0.5 | 0.5 | 8 | 0.5 | 0.5 | 0.5 | 5 | 0.0002 | 5 | 0.06 | 0.0005 | 0.0005 |
| 8/31-9/1/2011 | 1.81 | 51.0 < 0.0014 | | | | | | | | | | | | 0.13300 | 109.0 | | | |
| 9/6-7/2011 | 1.82 | | | 0.750 < | 0.5 < | 10 | 0.6 | 35 < | 8 | 4.5 | 1.30 | 1.20 < | 5 | | | | | |
| 10/10-11/2011 | 1.68 | | | 0.870 < | 0.5 < | 10 | 0.9 | 42 < | 8 | 3.8 | 1.40 | 0.90 < | 5 | | | | | |
| 12/12-13/2011 | 2.98 | 89.0 < 0.0014 | | | | | | | | | | | | 0.04555 | 26.0 | | | |
| Average | 2.07 | 70.0 < 0.0014 | | 0.810 < | 0.5 < | 10 | 0.8 | 39 < | 8 | 4.2 | 1.35 | 1.05 < | 5 | 0.08928 | 67.5 < | 0.060 < | 0.0005 < | 0.0005 < |
| Maximum | 2.98 | 89.0 < 0.0014 | | 0.870 < | 0.5 < | 10 | 0.9 | 42 < | 8 | 4.5 | 1.40 | 1.20 < | 5 | 0.13300 | 109.0 < | 0.060 < | 0.0005 < | 0.0005 < |
| Minimum | 1.68 | 51.0 < 0.0014 | | 0.750 < | 0.5 < | 10 | 0.6 | 35 < | 8 | 3.8 | 1.30 | 0.90 < | 5 | 0.04555 | 26.0 < | 0.060 < | 0.0005 < | 0.0005 < |
| Headworks limit | | 0.09 | | 0.36 | 9.0 | 260.0 | 180.0 | 270 | | 160 | 50 | 14 | | 10 | | | | |

Comments: None

**MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2011 TO DECEMBER 31, 2011**

TREATMENT PLANT: CITY OF LITTLE ROCK - LITTLE MAUMELLE WASTEWATER TREATMENT PLANT

NPDES PERMIT NO.: AR0050849

AVERAGE POTW FLOW: 2.42 MGD PERCENT (%) IU FLOW: 0 %

| FINAL EFFLUENT | Flow MGD | O&G mg/L | CN- mg/L | Zn mg/L | Cd μg/L | Cr μg/L | Ag μg/L | Cu μg/L | Mo μg/L | Ni μg/L | Pb μg/L | As μg/L | Se μg/L | Hg μg/L | Phenol μg/L | Sb mg/L | Be mg/L | Tl mg/L |
|----------------|----------|----------|--------------------|--------------|-----------|---------|-----------|------------|---------|-----------|-------------|-------------|---------|---------|-------------|---------|----------|----------|
| | | 1664A | 5 | 200.8 | 0.5 | 10 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 200.8 | 1631E | 420.1 | 200.8 | 200.8 | 200.8 |
| | | | 0.0014 | 0.02 | 0.5 | 10 | 0.5 | 0.5 | 8 | 0.5 | 0.5 | 0.5 | 5 | 0.0002 | 5 | 0.06 | 0.0005 | 0.0005 |
| | | | SM20H-4500 C&I | | | | | | | | | | | | | | | |
| | | | 5.0 < 0.0014 | 5.0 < 0.0014 | 0.5 < 0.5 | 10 < 10 | 0.5 < 0.5 | 9.2 < 12.0 | 8 < 8 | 3.5 < 3.8 | 0.50 < 0.88 | 1.10 < 0.72 | 5 < 5 | 0.00971 | 13.3 | < 0.060 | < 0.0005 | < 0.0005 |
| | | | 1.88 | 0.051 | 0.160 | 0.106 | 0.106 | 10.6 | 8 | 3.7 | 0.69 | 0.91 | 5 | 0.00714 | 11.1 | < 0.060 | < 0.0005 | < 0.0005 |
| | | | 1.34 | 0.160 | 0.160 | 0.160 | 0.160 | 12 | 8 | 3.8 | 0.88 | 1.10 | 5 | 0.00971 | 13.3 | < 0.060 | < 0.0005 | < 0.0005 |
| | | | 1.69 | 0.051 | 0.051 | 0.051 | 0.051 | 9.2 | 8 | 3.5 | 0.50 | 0.72 | 5 | 0.00457 | 8.9 | < 0.060 | < 0.0005 | < 0.0005 |
| | | | 3.05 | 0.106 | 0.106 | 0.106 | 0.106 | 10.6 | 8 | 3.7 | 0.69 | 0.91 | 5 | 0.00714 | 11.1 | < 0.060 | < 0.0005 | < 0.0005 |
| | | | 1.99 | 0.160 | 0.160 | 0.160 | 0.160 | 12 | 8 | 3.8 | 0.88 | 1.10 | 5 | 0.00971 | 13.3 | < 0.060 | < 0.0005 | < 0.0005 |
| | | | 3.05 | 0.051 | 0.051 | 0.051 | 0.051 | 9.2 | 8 | 3.5 | 0.50 | 0.72 | 5 | 0.00457 | 8.9 | < 0.060 | < 0.0005 | < 0.0005 |
| | | | 1.34 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | | WQS Effluent Level | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | | Day Max. | | | | | | | | | | | | | | | |
| | | | Month Avg. | | | | | | | | | | | | | | | |

Comments: None

**MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
TREATMENT PLANT PERCENT REMOVAL EFFICIENCIES
REPORTING YEAR: JANUARY 1, 2011 TO DECEMBER 31, 2011**

Adams Field Wastewater Treatment Plant - NPDES Permit No. AR0021806

| | O&G | CN- | Zn | Cd | Cr | Ag | Cu | Mo | Ni | Pb | As | Se | Hg | Phenol | Sb | Bc | Tl | Mn | Ba | B |
|---------------|-------|--------|-------|-------|-------|-------|-------|------|---------|-------|-------|------|-------|--------|------|------|------|-------|-------|------|
| 1/12-13/2011 | | | 71.0% | 0.0% | 0.0% | 16.7% | 47.4% | 0.0% | -161.4% | 56.4% | 0.0% | 0.0% | 95.2% | 70.7% | 0.0% | 0.0% | 0.0% | | | |
| 2/22-23/2011 | 85.7% | 0.0% | | | | | | | | | | | | | | | | | | |
| 4/5-6/2011 | 58.3% | -7.1% | | | | | | | | | | | 95.3% | 71.9% | | | | | | |
| 4/19-20/2011 | | | 88.2% | 68.8% | 0.0% | 72.2% | 89.5% | 0.0% | 57.1% | 91.5% | 66.7% | 0.0% | | | 0.0% | 0.0% | 0.0% | | | |
| 7/19-20/2011 | | | 86.1% | 0.0% | 33.3% | 82.1% | 91.7% | 0.0% | 55.4% | 86.2% | 70.0% | 0.0% | | | 0.0% | 0.0% | 0.0% | 38.2% | 72.0% | 7.7% |
| 8/31-9/1/2011 | 85.7% | -14.3% | | | | | | | | | | | 96.3% | 57.1% | | | | | | |
| 10/11-12/2011 | | | 41.3% | 0.0% | 9.1% | 81.5% | 84.4% | 4.8% | 41.7% | 84.9% | 71.4% | 0.0% | | | 0.0% | 0.0% | 0.0% | | | |
| 12/11-12/2011 | 90.9% | 0.0% | | | | | | | | | | | 88.3% | 28.0% | | | | | | |
| Average | 80.2% | -5.4% | 71.7% | 17.2% | 10.6% | 63.1% | 78.2% | 1.2% | -1.8% | 79.8% | 52.0% | 0.0% | 93.8% | 56.9% | 0.0% | 0.0% | 0.0% | 38.2% | 72.0% | 7.7% |

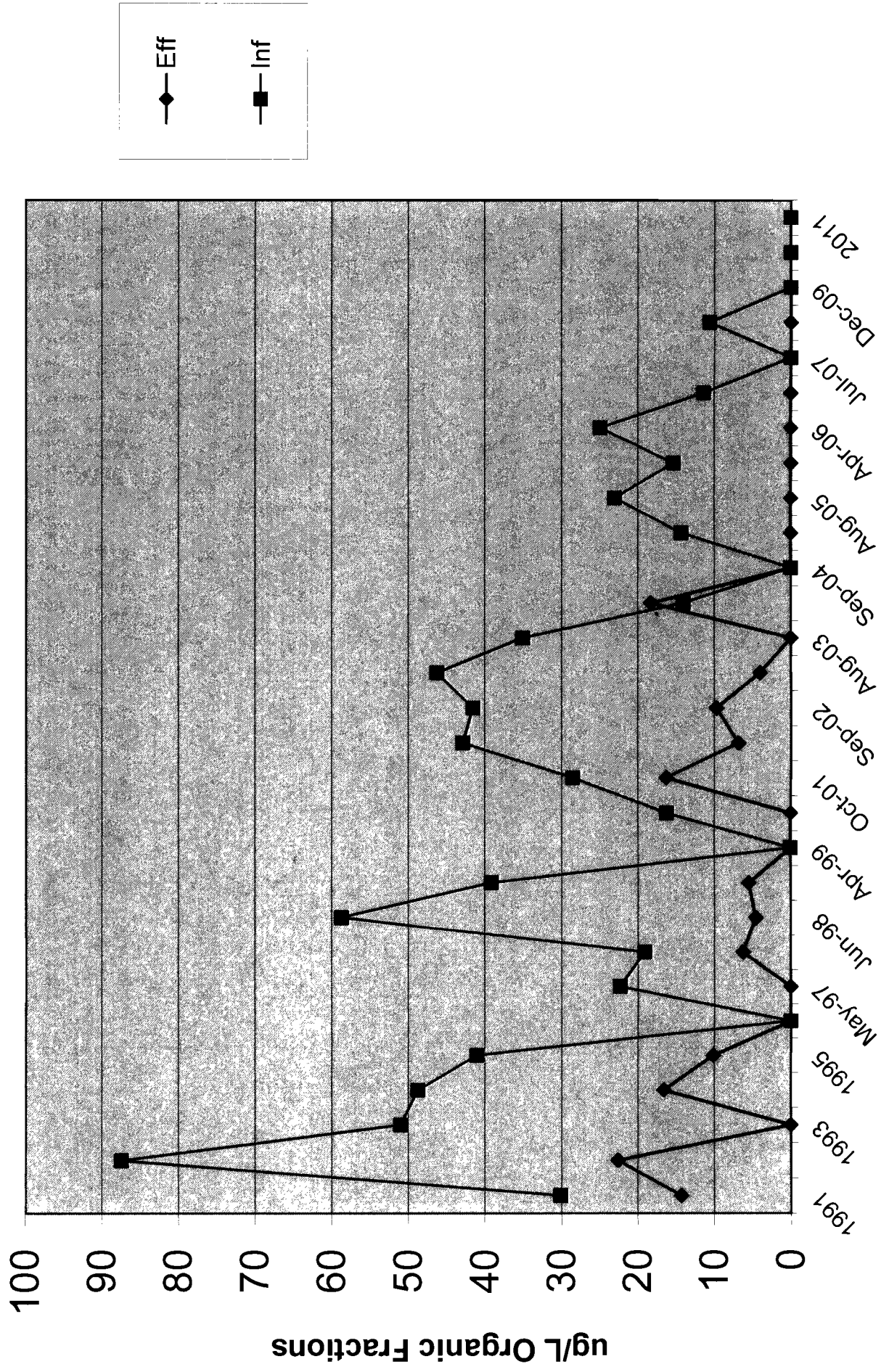
Fourche Creek Wastewater Treatment Plant - NPDES Permit No. AR0040177

| | O&G | CN- | Zn | Cd | Cr | Ag | Cu | Mo | Ni | Pb | As | Se | Hg | Phenol | Sb | Bc | Tl | Mn | Ba | B |
|---------------|-------|---------|-------|------|-------|-------|-------|------|---------|-------|-------|------|-------|--------|------|------|------|-------|-------|------|
| 1/12-13/2011 | | | 81.8% | 0.0% | 0.0% | 0.0% | 92.6% | 0.0% | -166.7% | 91.1% | 0.0% | 0.0% | | | 0.0% | 0.0% | 0.0% | | | |
| 2/22-23/2011 | 88.9% | -171.4% | | | | | | | | | | | | 84.7% | | | | | | |
| 4/5-6/2011 | 41.9% | -100.0% | | | | | | | | | | | 93.6% | 92.6% | | | | | | |
| 4/19-20/2011 | | | 95.8% | 0.0% | 9.1% | 58.3% | 93.2% | 0.0% | 63.6% | 88.8% | 39.8% | 0.0% | | | 0.0% | 0.0% | 0.0% | | | |
| 7/20-21/2011 | | | | | | | | | | | | | | | | | | | | |
| 8/31-9/1/2011 | 88.1% | -21.4% | | | | | | | | | | | 98.3% | 92.8% | | | | | | |
| 10/11-12/2011 | | | 90.9% | 0.0% | 28.6% | 77.3% | 95.8% | 0.0% | 51.9% | 90.9% | 50.0% | 0.0% | | | 0.0% | 0.0% | 0.0% | | | |
| 12/12-13/2011 | 80.8% | 0.0% | | | | | | | | | | | 90.4% | 52.0% | | | | | | |
| Average | 74.9% | -73.2% | 93.4% | 0.0% | 12.6% | 45.2% | 93.9% | 0.0% | -17.0% | 90.2% | 29.9% | 0.0% | 94.1% | 80.5% | 0.0% | 0.0% | 0.0% | 38.2% | 72.0% | 7.7% |

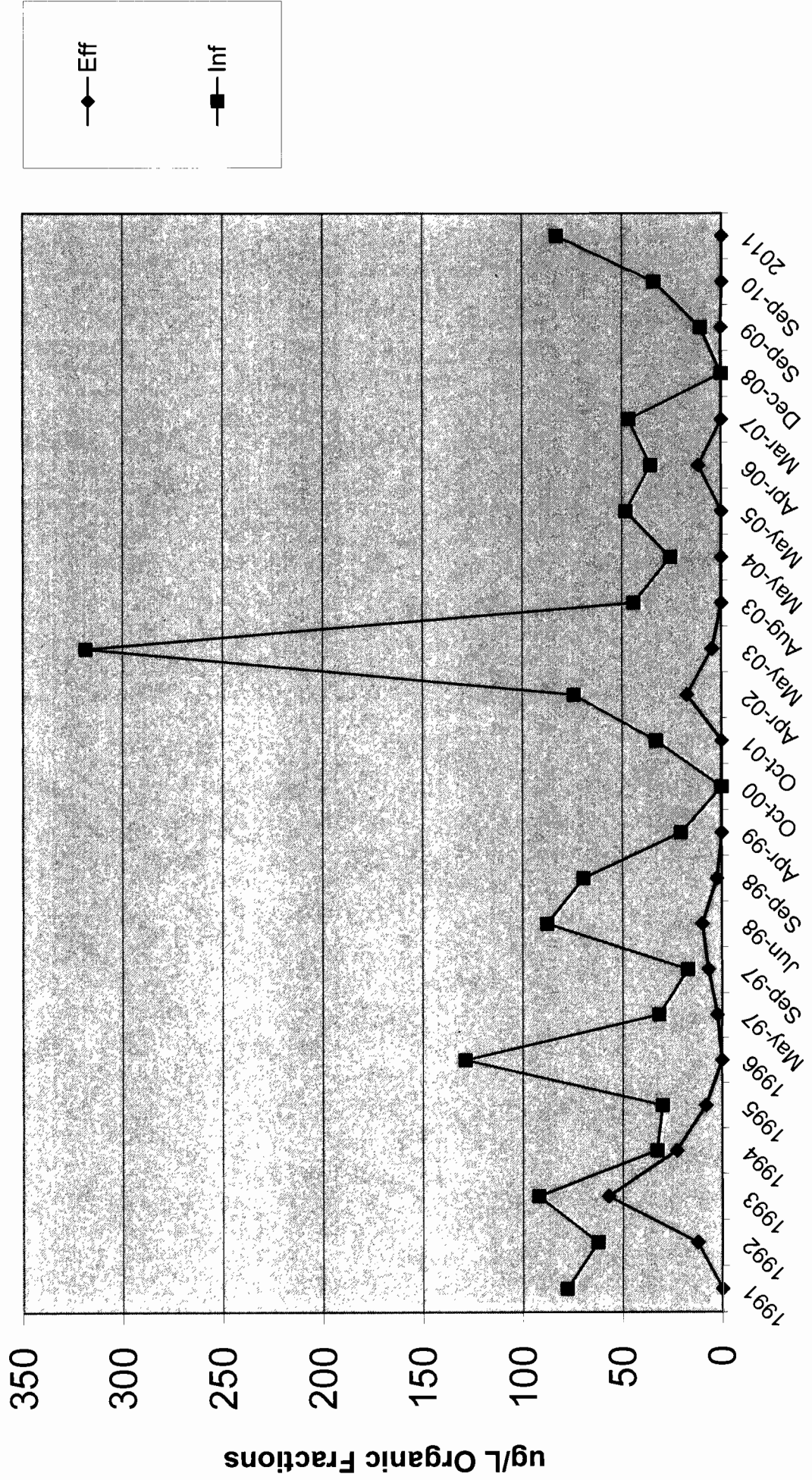
Little Maumelle Wastewater Treatment Plant - NPDES Permit No. AR0050849

| | O&G | CN- | Zn | Cd | Cr | Ag | Cu | Mo | Ni | Pb | As | Se | Hg | Phenol | Sb | Bc | Tl | Mn | Ba | B |
|---------------|-------|------|-------|------|------|-------|-------|------|-------|-------|-------|------|--------|--------|------|------|------|-------|-------|------|
| 8/31-9/1/2011 | 90.2% | 0.0% | | | | | | | | | | | 92.7% | 87.8% | | | | | | |
| 9/6-7/2011 | | | 93.2% | 0.0% | 0.0% | 13.8% | 73.7% | 0.0% | 22.2% | 61.5% | 8.3% | 0.0% | | | 0.0% | 0.0% | 0.0% | | | |
| 10/10-11/2011 | | | 81.6% | 0.0% | 0.0% | 45.7% | 71.4% | 0.0% | 0.0% | 37.1% | 20.0% | 0.0% | | | 0.0% | 0.0% | 0.0% | | | |
| 12/12-13/2011 | 94.4% | 0.0% | | | | | | | | | | | -10.0% | 65.8% | | | | | | |
| Average | 92.3% | 0.0% | 81.6% | 0.0% | 0.0% | 29.7% | 72.6% | 0.0% | 11.1% | 49.3% | 14.2% | 0.0% | 41.3% | 76.8% | 0.0% | 0.0% | 0.0% | 38.2% | 72.0% | 7.7% |

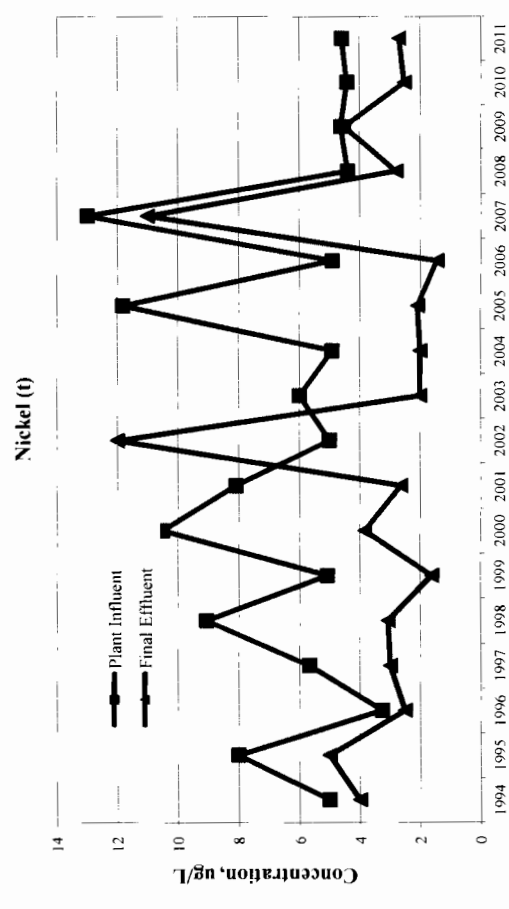
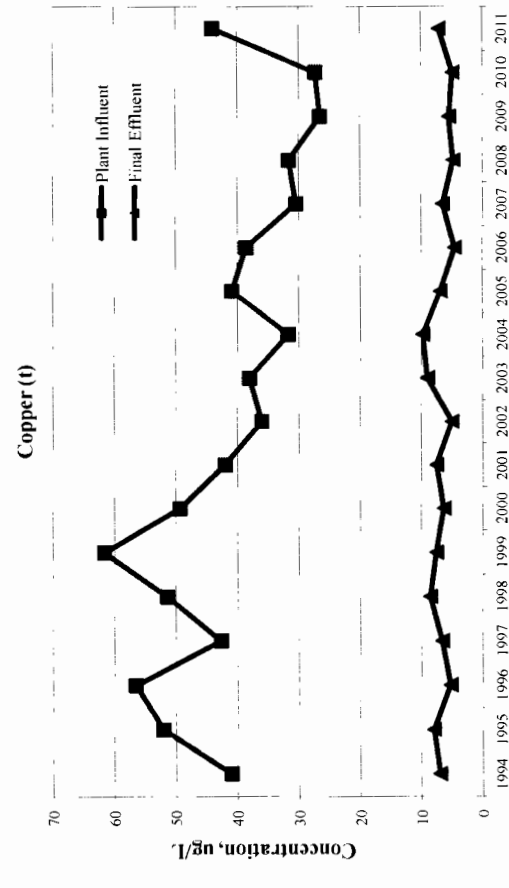
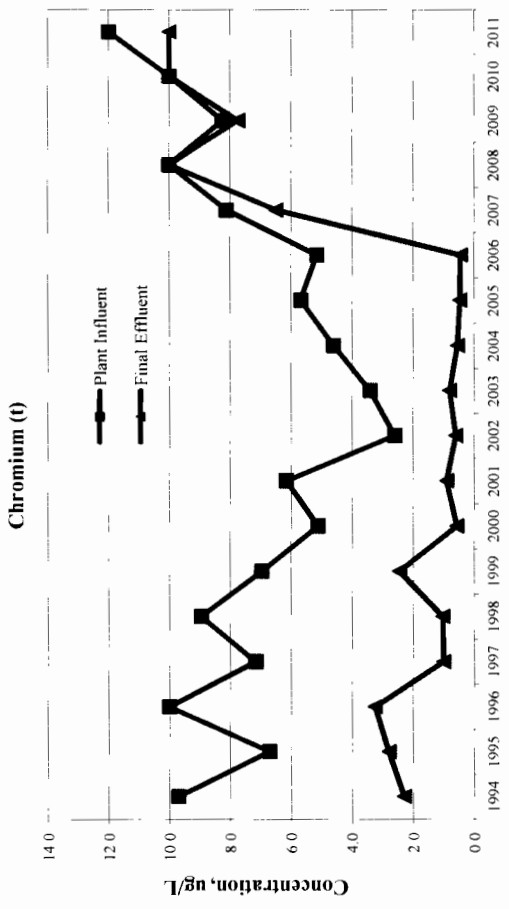
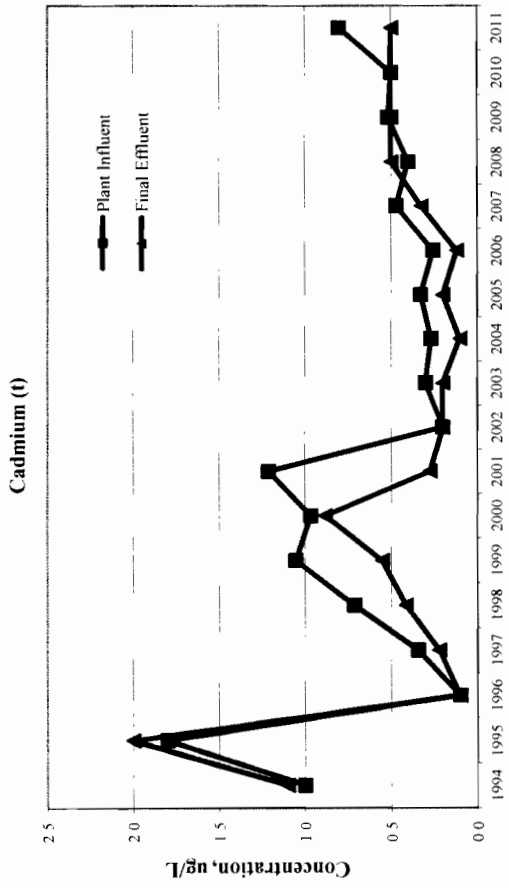
Adams Field WWTP



Fourche Creek WWTP

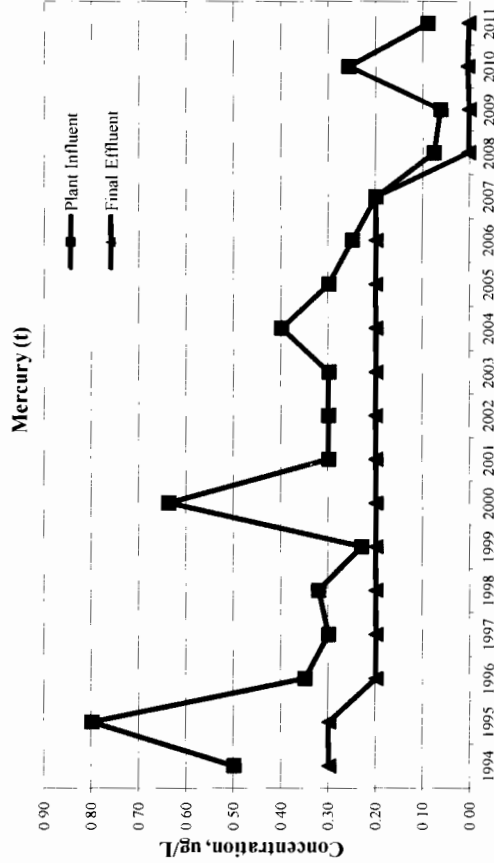
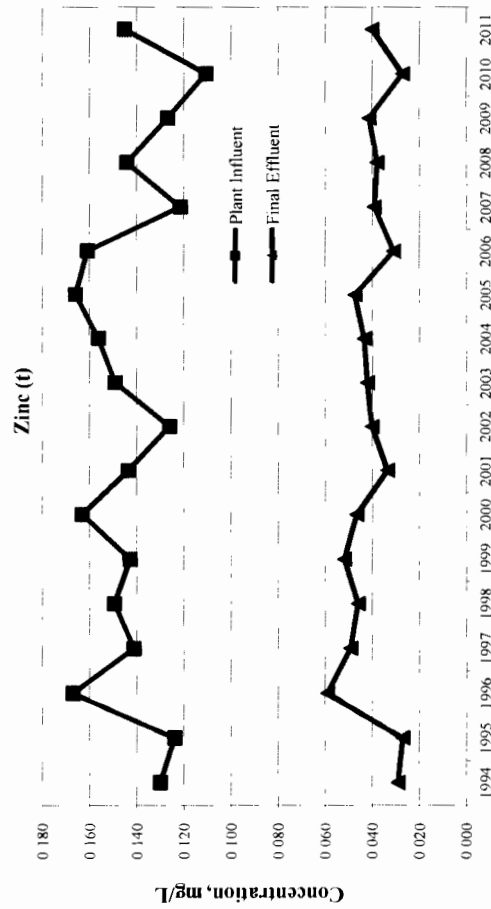
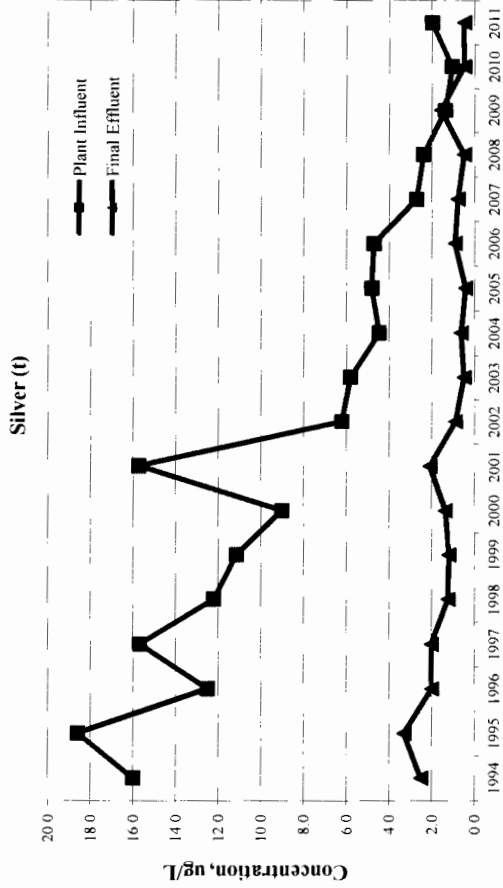
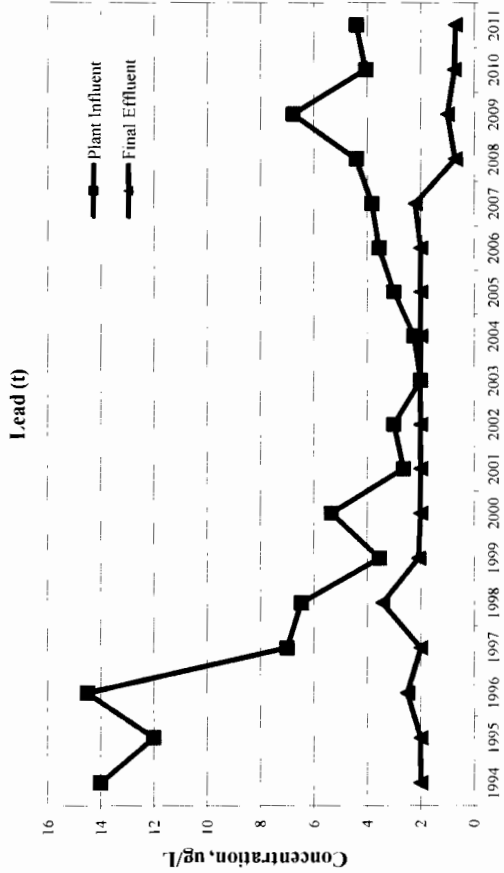


**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
ADAMS FIELD TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2011**



| | Cadmium(t) | Copper (t) | Chromium (t) | Nickel(t) |
|---|------------|------------|--------------|------------|
| Influent Headworks Limit | 9 ug/L | 270 ug/L | 260 ug/L | 160 ug/L |
| Effluent Water Quality Criteria (Acute) | 27 ug/L | 106 ug/L | 5,590 ug/L | 2,490 ug/L |

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
ADAMS FIELD TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2011**



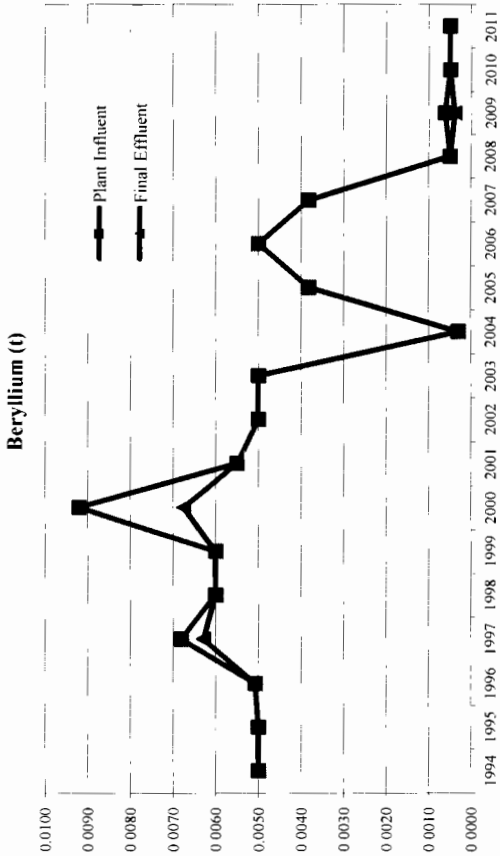
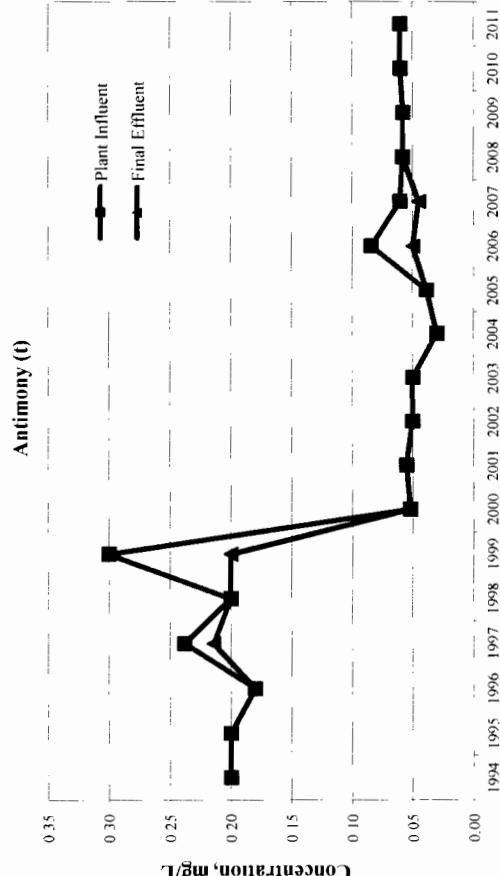
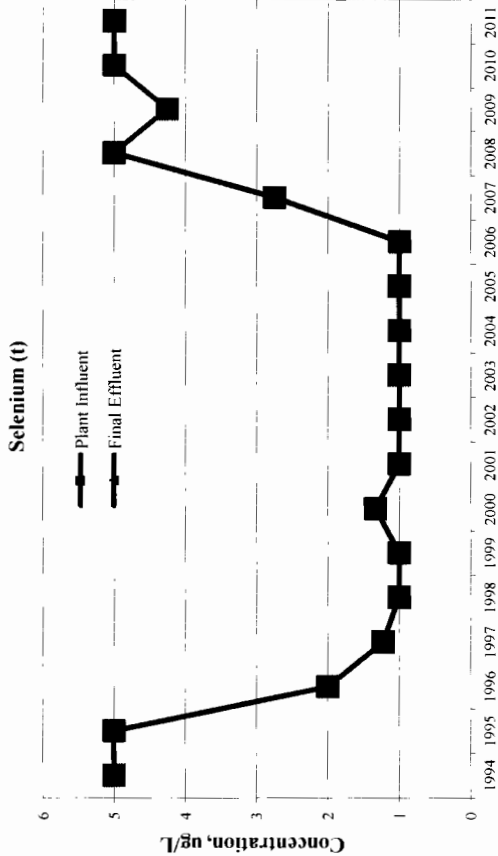
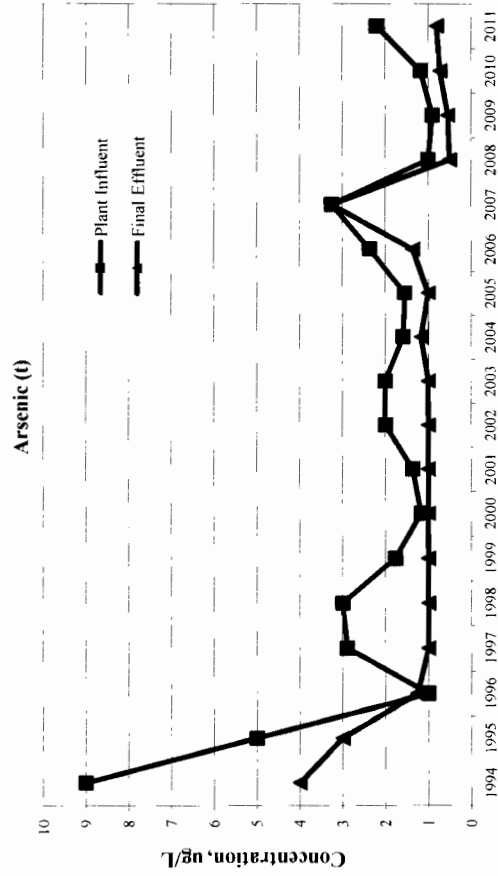
Lead (t)
Influent Headworks Limit 50 ug/L
Effluent Water Quality Criteria (Acute) 98 ug/L

Zinc(t)
0.36 mg/L
0.85 mg/L

Silver(t)
180 ug/L
28 ug/L

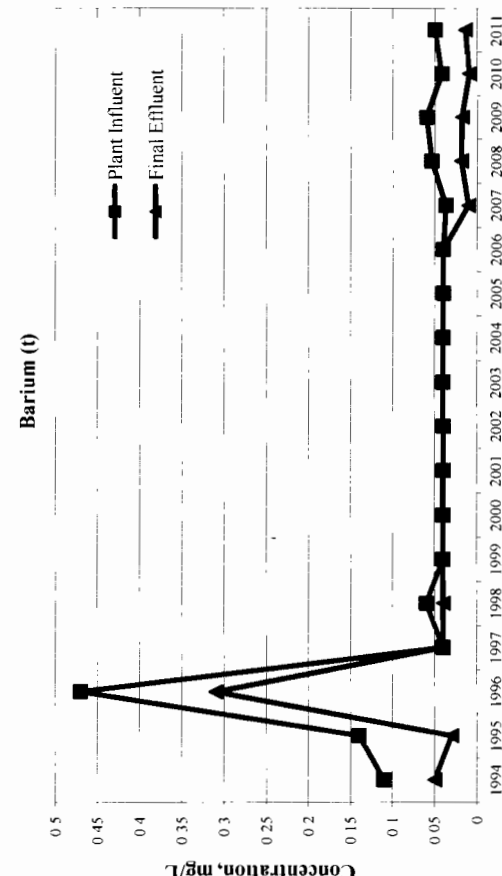
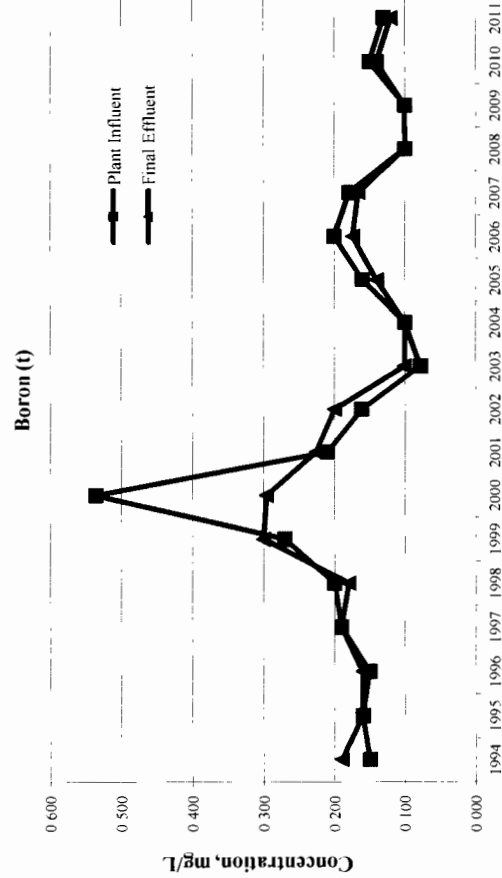
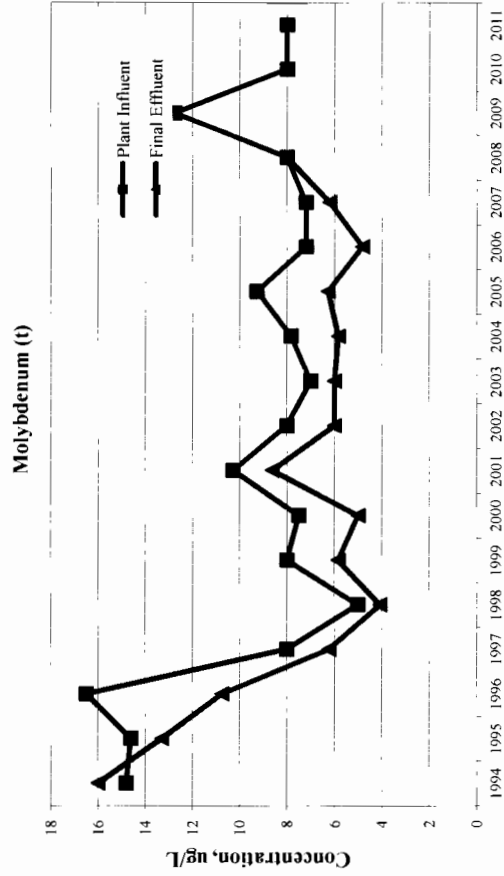
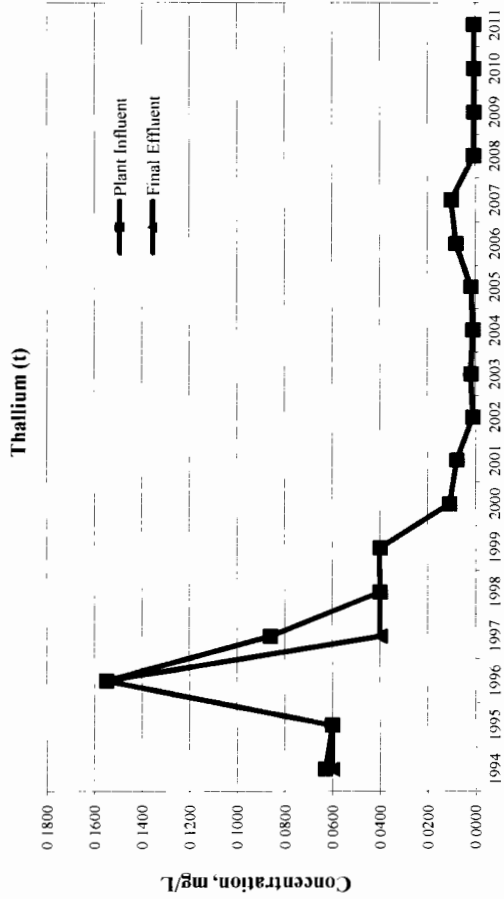
Mercury(t)
0.2 ug/L
0.07 ug/L

LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
ADAMS FIELD TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2011



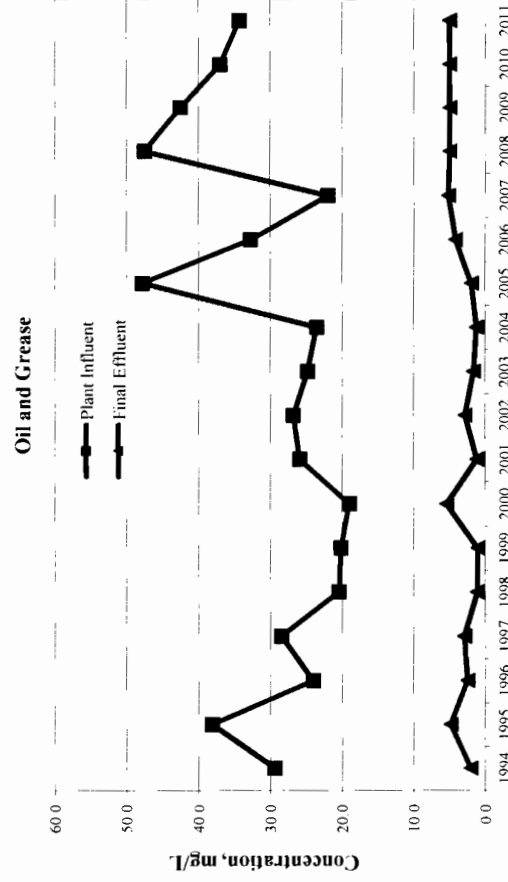
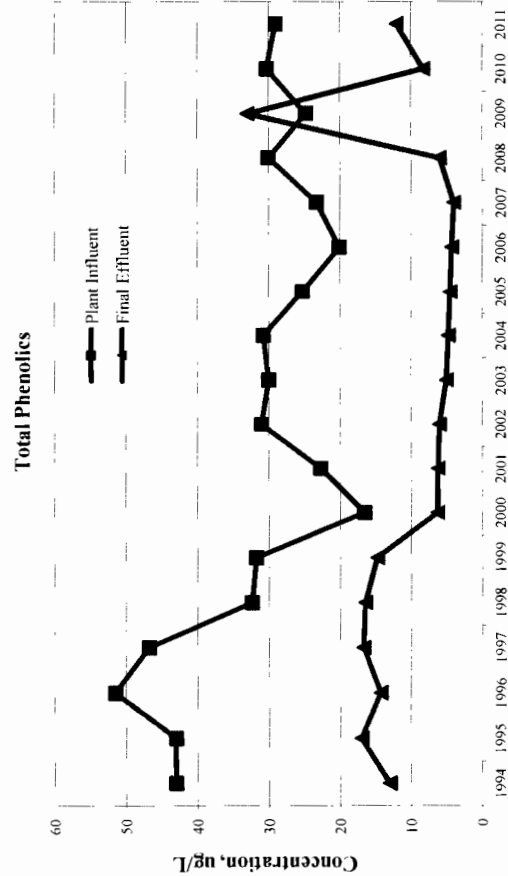
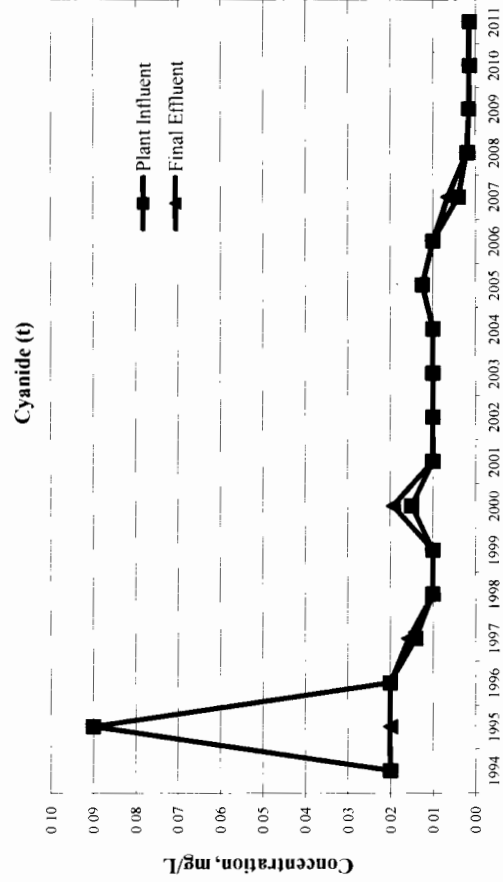
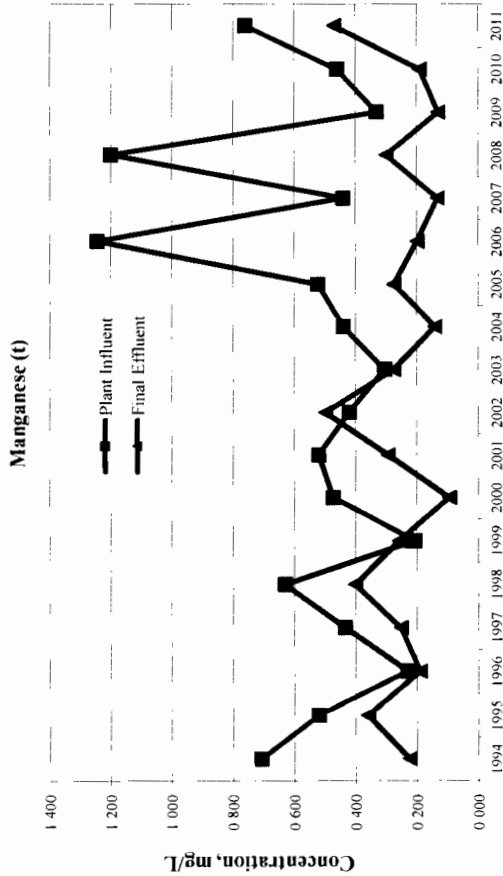
| | Arsenic(t) | Antimony (t) | Selenium (t) | Beryllium (t) |
|---|------------|--------------|--------------|---------------|
| Influent Headworks Limit | 14 ug/L | None | 10 ug/L | None |
| Effluent Water Quality Criteria (Acute) | 1,190 ug/L | None | 28 ug/L | None |

**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 ADAMS FIELD TREATMENT PLANT CONCENTRATION TRENDS
 1994 THROUGH 2011**



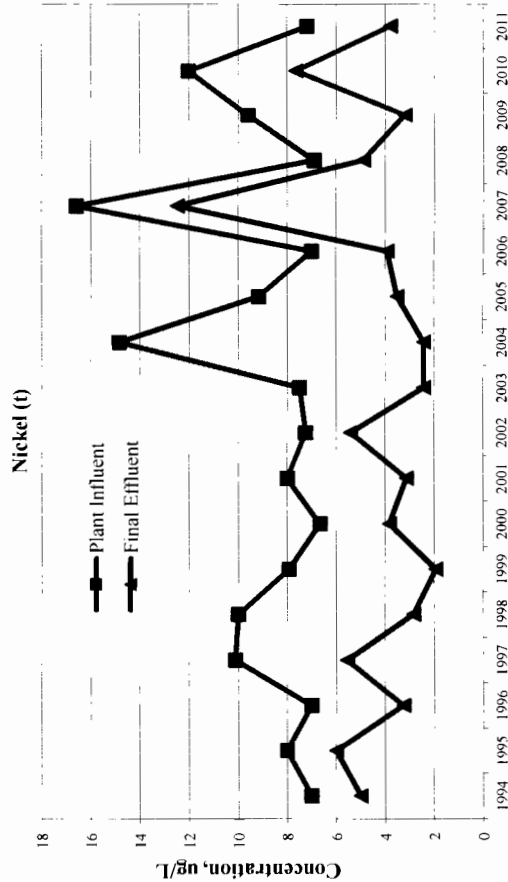
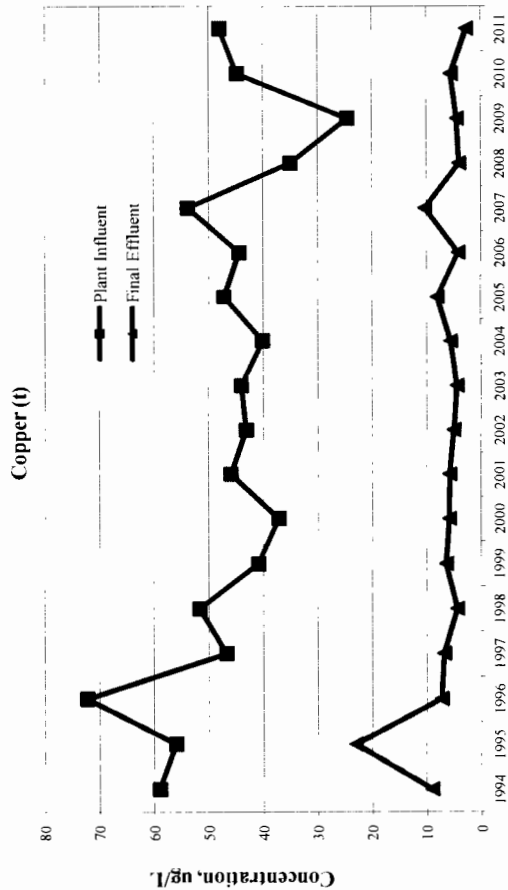
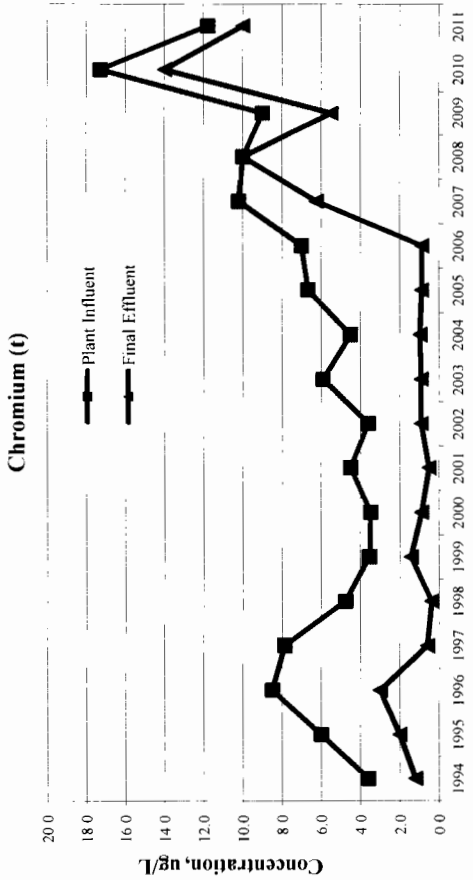
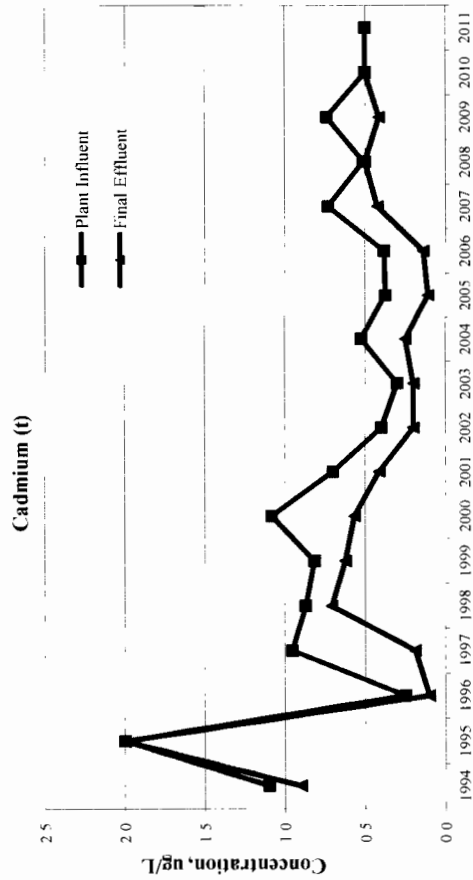
| | Thallium (t) | Boron (t) | Molybdenum(t) | Barium(t) |
|---|--------------|-----------|---------------|-----------|
| Influent Headworks Limit | None | None | None | None |
| Effluent Water Quality Criteria (Acute) | None | None | None | None |

**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 ADAMS FIELD TREATMENT PLANT CONCENTRATION TRENDS
 1994 THROUGH 2011**



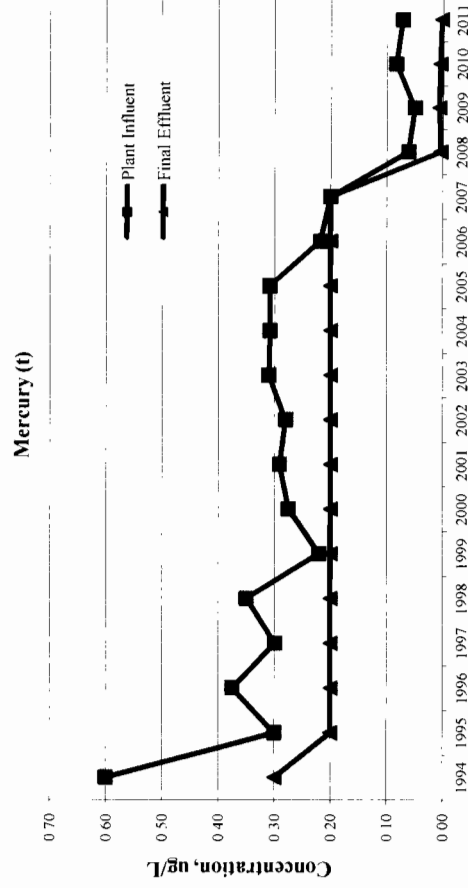
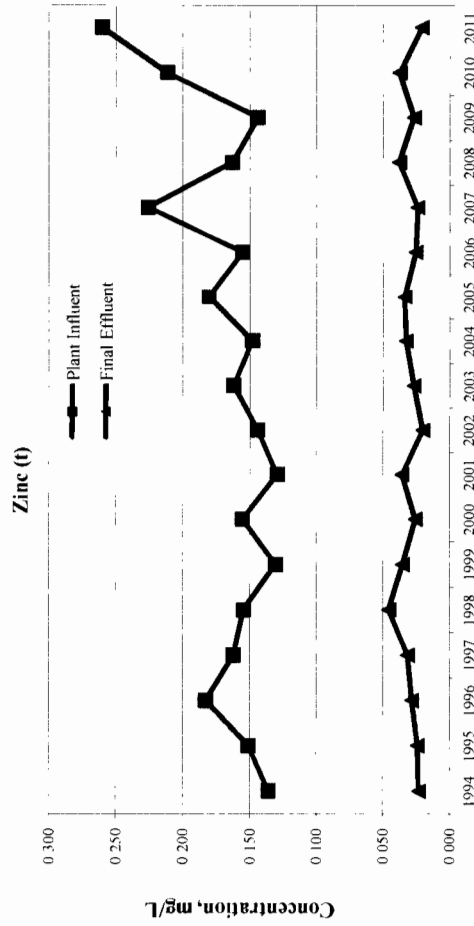
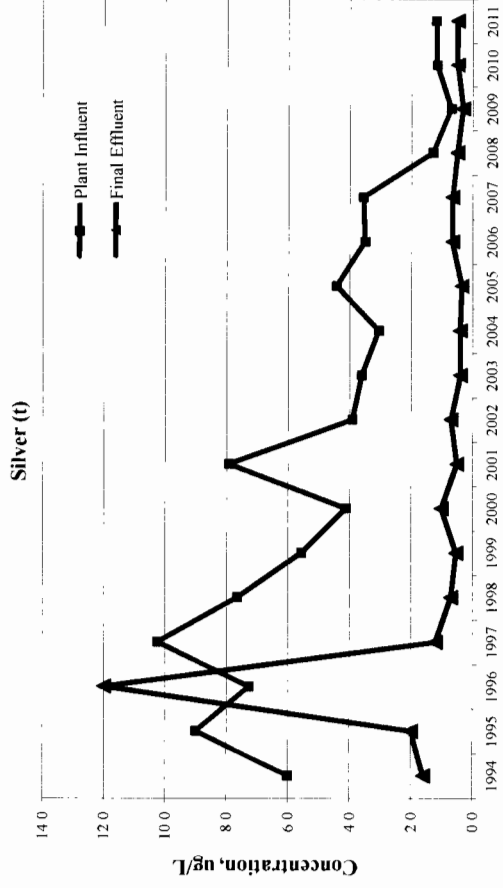
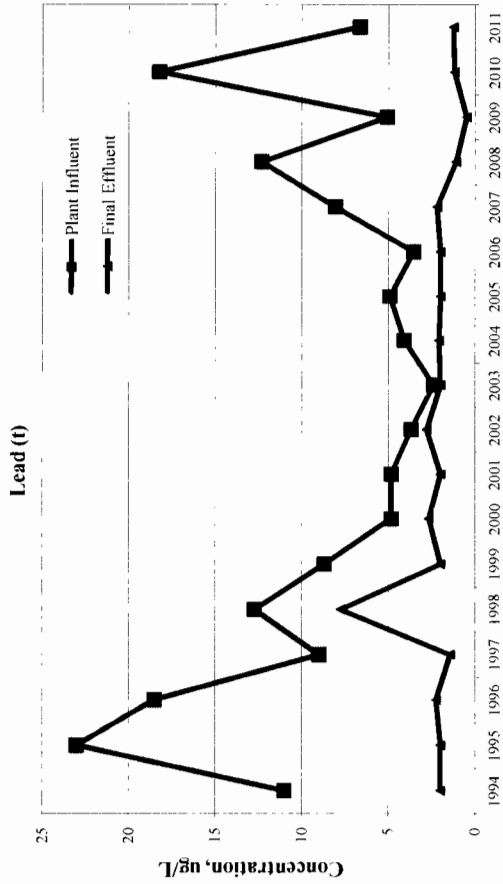
| | Manganese (t) | Total Phenols | Cyanide (t) | Oil & Grease |
|---|---------------|---------------|-------------|--------------|
| Influent Headworks Limit | None | None | 0.09 mg/L | None |
| Effluent Water Quality Criteria (Acute) | None | None | 0.29 mg/L | None |

**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
 1994 THROUGH 2011**



| | Copper (t) | Chromium (t) | Nickel (t) |
|---------------------------------|------------|--------------|------------|
| Influent Headworks Limit | 270 ug/L | 260 ug/L | 160 ug/L |
| Effluent Water Quality Criteria | 395 ug/L | 11,700 ug/L | 4,980 ug/L |

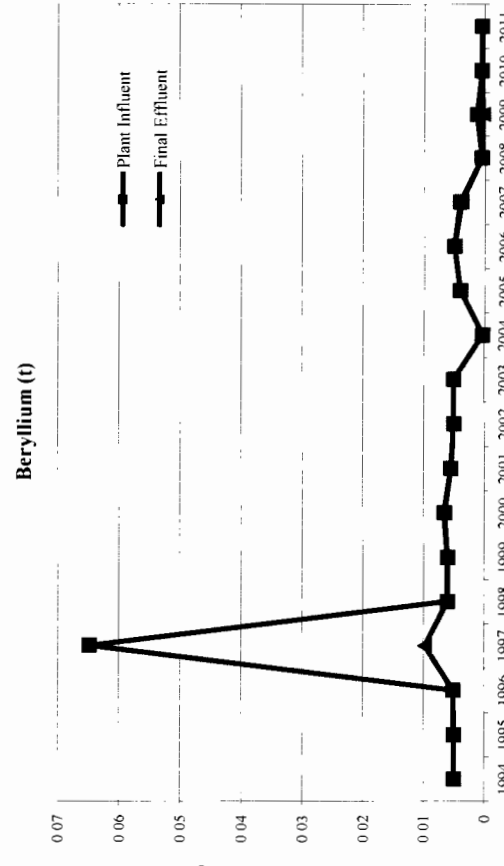
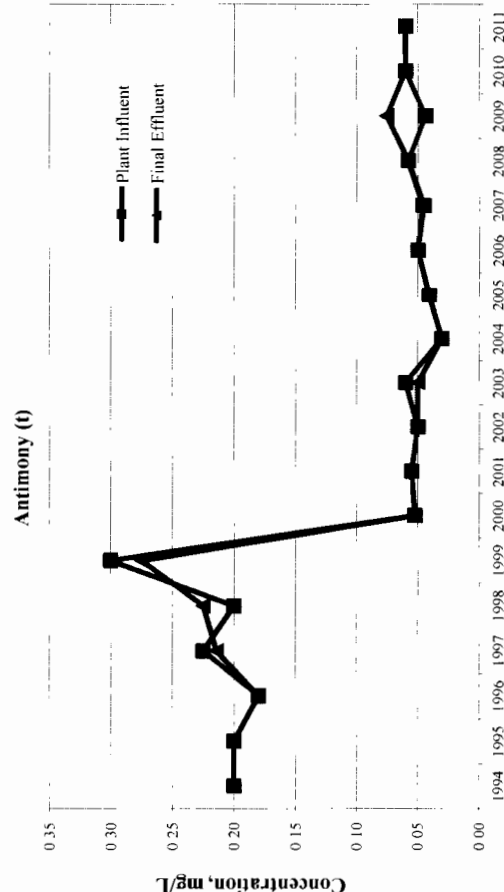
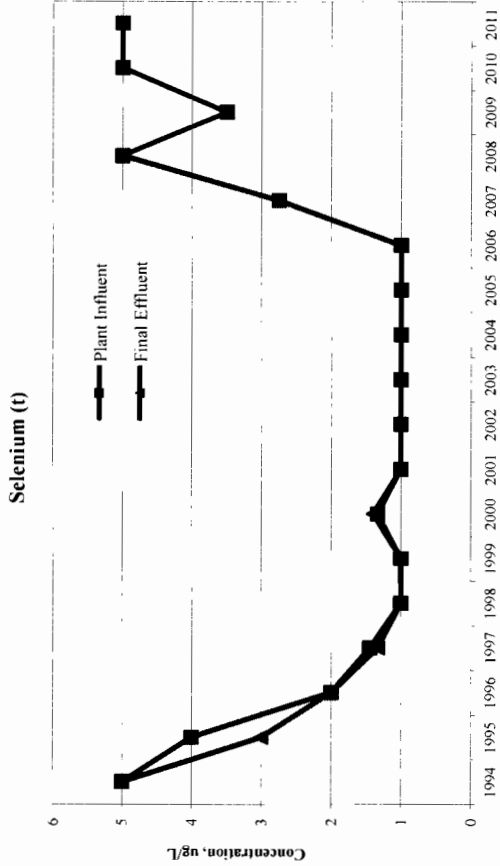
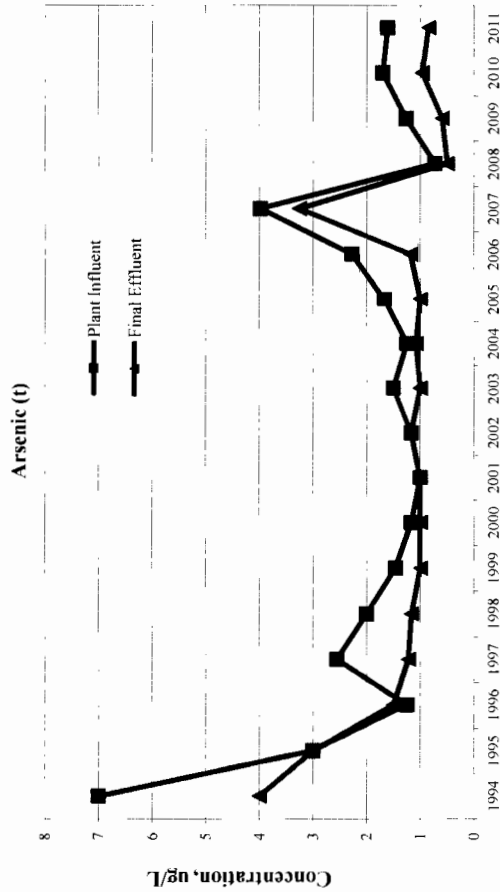
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2011**



| | Zinc(t) | Silver(t) | Mercury(t) |
|---------------------------------|-----------|-----------|------------|
| Influent Headworks Limit | 0.36 mg/L | 180 ug/L | 0.2 ug/L |
| Effluent Water Quality Criteria | 2.46 mg/L | 56 ug/L | 0.14 ug/L |

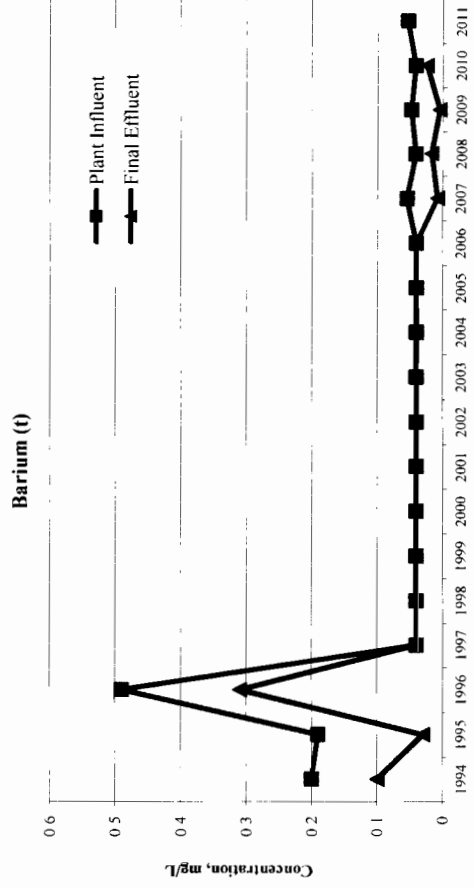
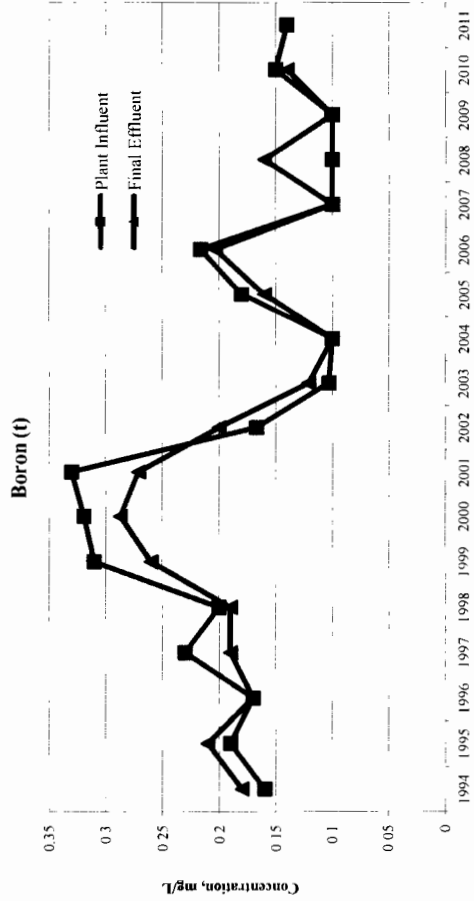
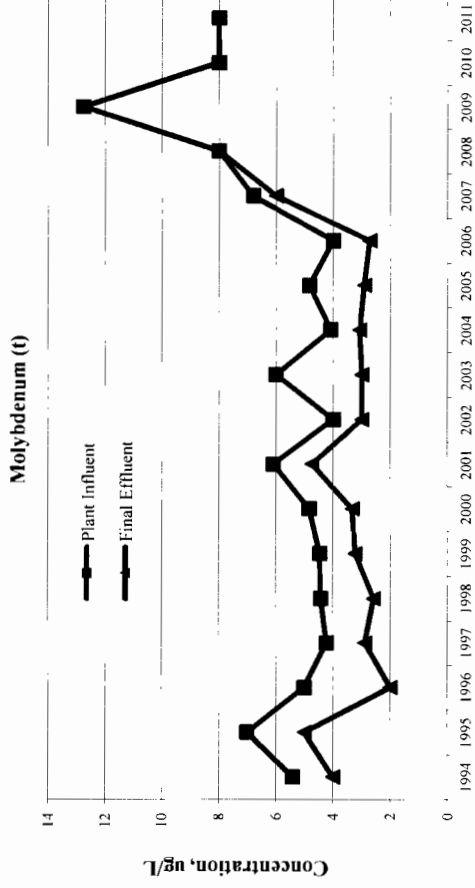
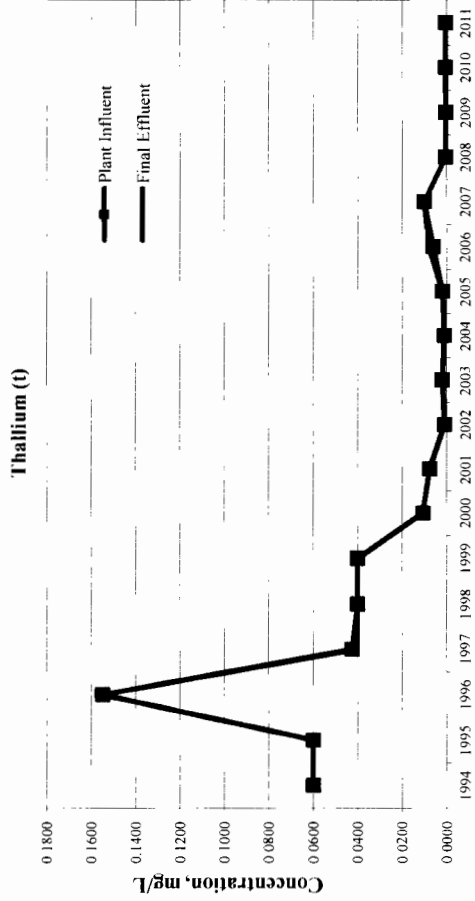
Lead (t)
50 ug/L
197 ug/L

**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
 1994 THROUGH 2011**



| | Arsenic (t) | Antimony (t) | Selenium (t) | Beryllium (t) |
|---------------------------------|-------------|--------------|--------------|---------------|
| Influent Headworks Limit | 14 ug/L | None | 10 ug/L | None |
| Effluent Water Quality Criteria | 3,440 ug/L | None | 56 ug/L | None |

**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
 1994 THROUGH 2011**



Thallium (t)
 None
 None

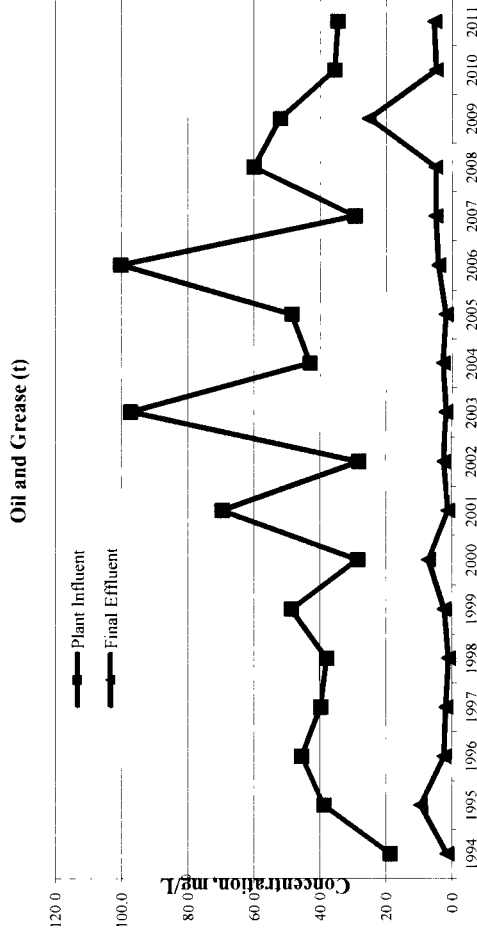
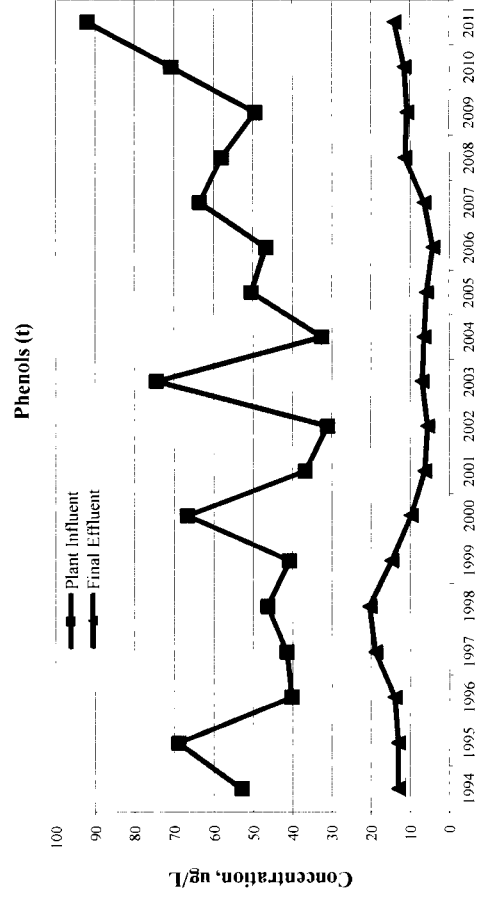
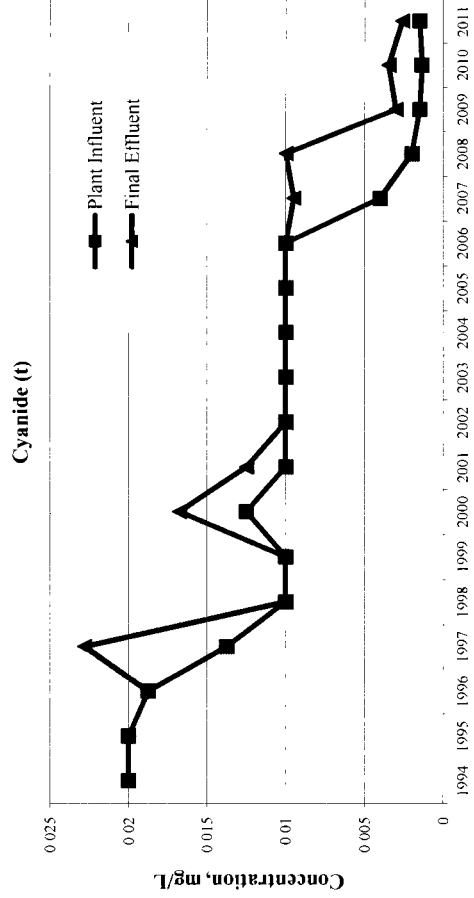
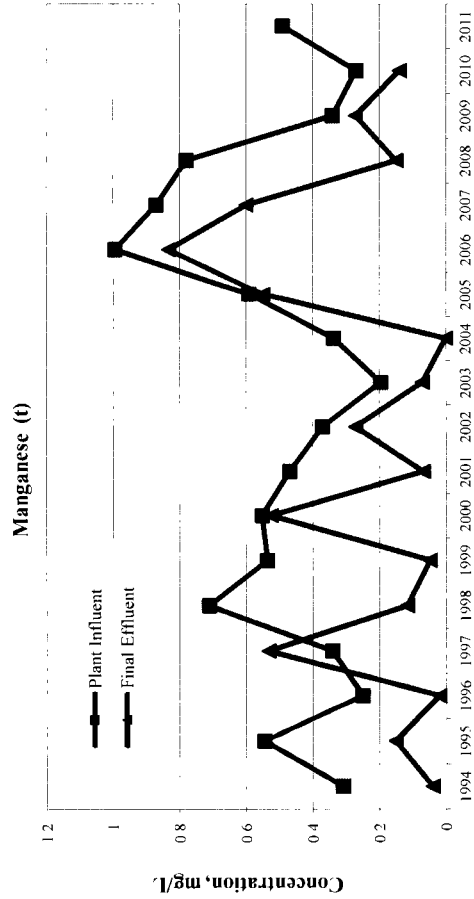
Boron (t)
 None
 None

Molybdenum(t)
 None
 None

Barium(t)
 None
 None

**Influent Headworks Limit
 Effluent Water Quality Criteria**

**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
 1994 THROUGH 2011**



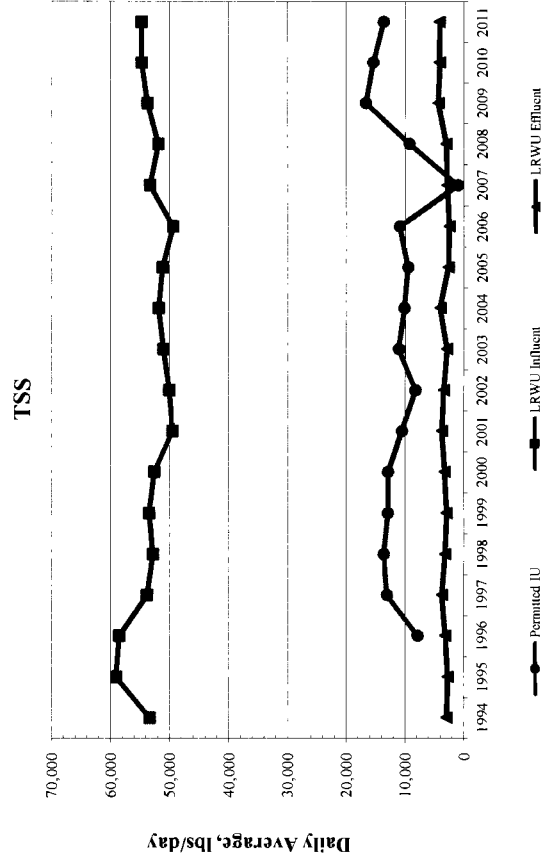
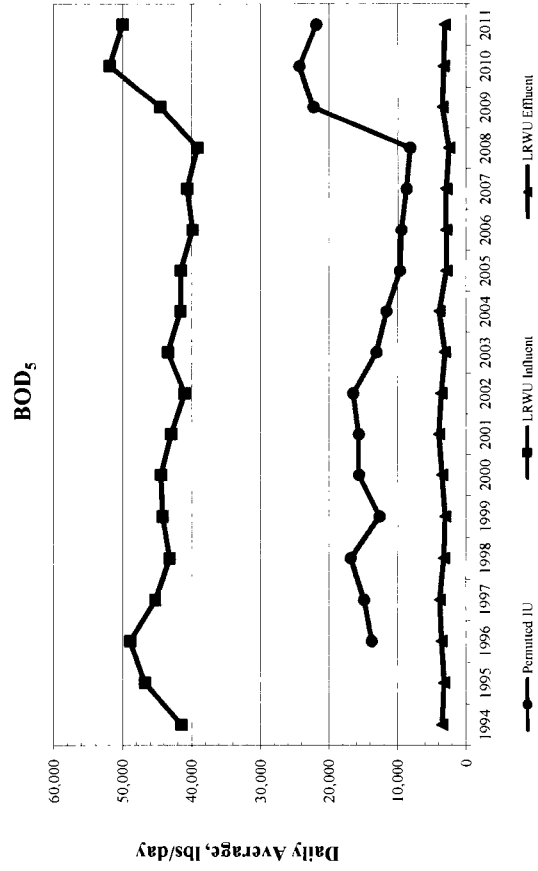
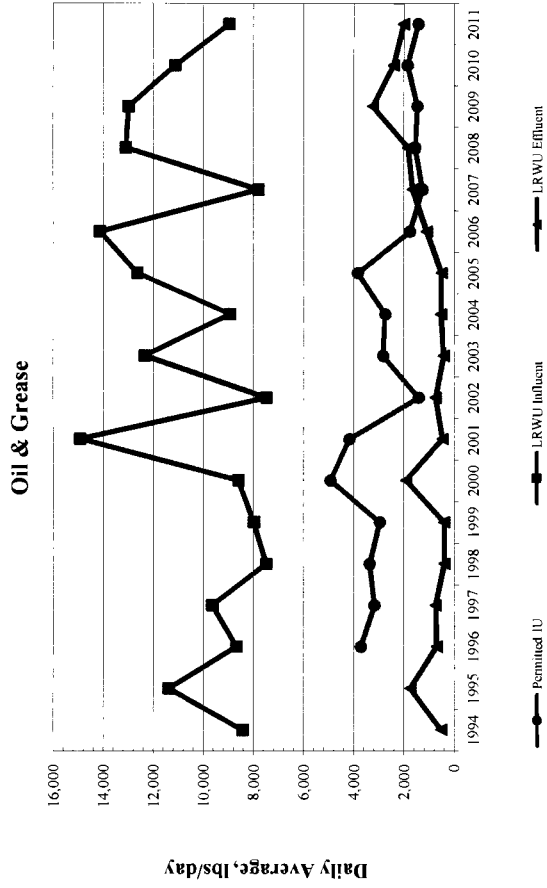
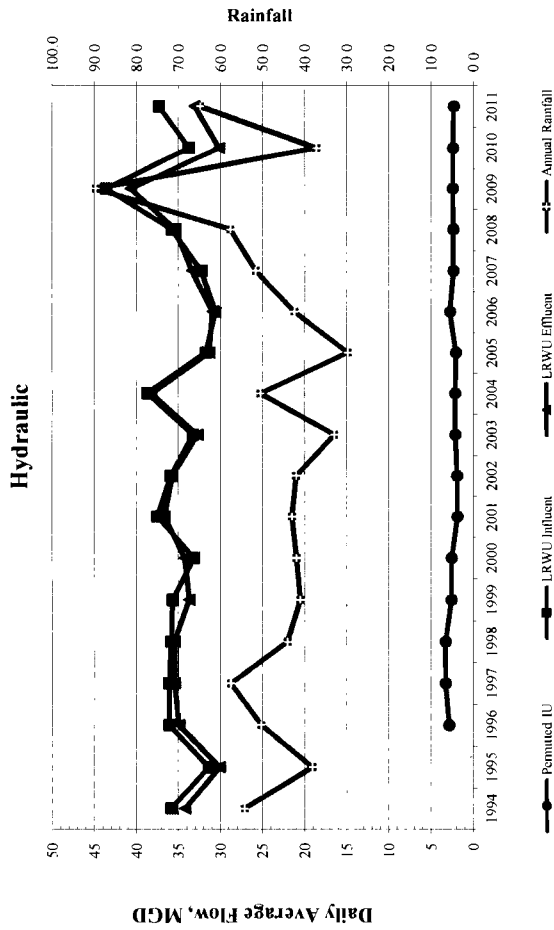
| | Manganese (t) | Total Phenols | Cyanide (t) | Oil & Grease |
|---------------------------------|---------------|---------------|-------------|--------------|
| Influent Headworks Limit | None | None | 0.09 mg/L | None |
| Effluent Water Quality Criteria | None | None | 0.058 mg/L | None |

SUMMARY OF LOADING TRENDS

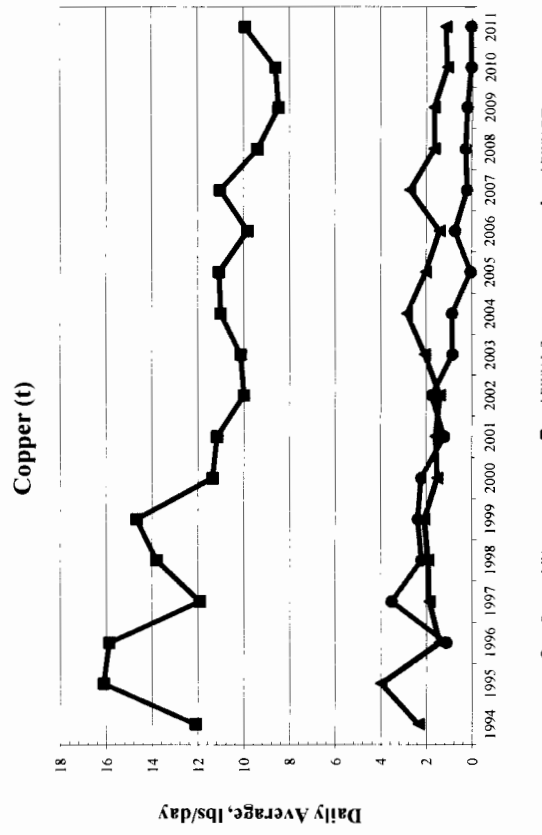
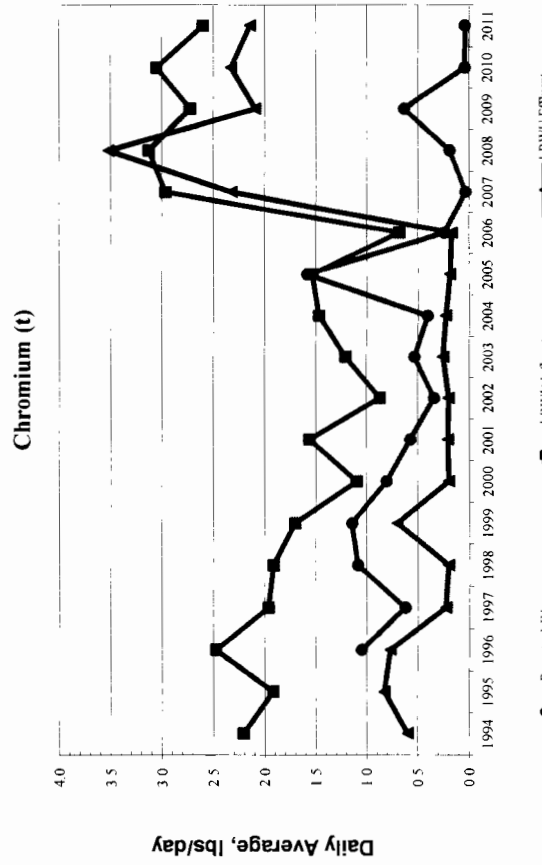
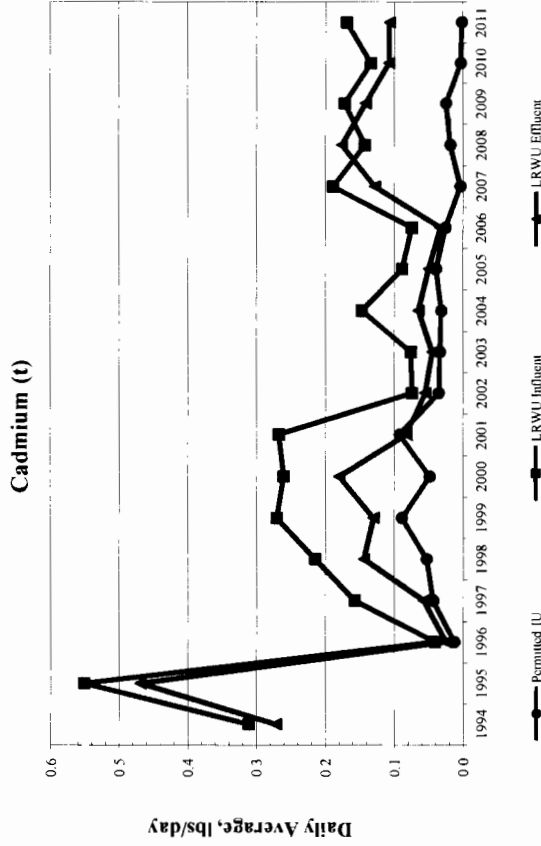
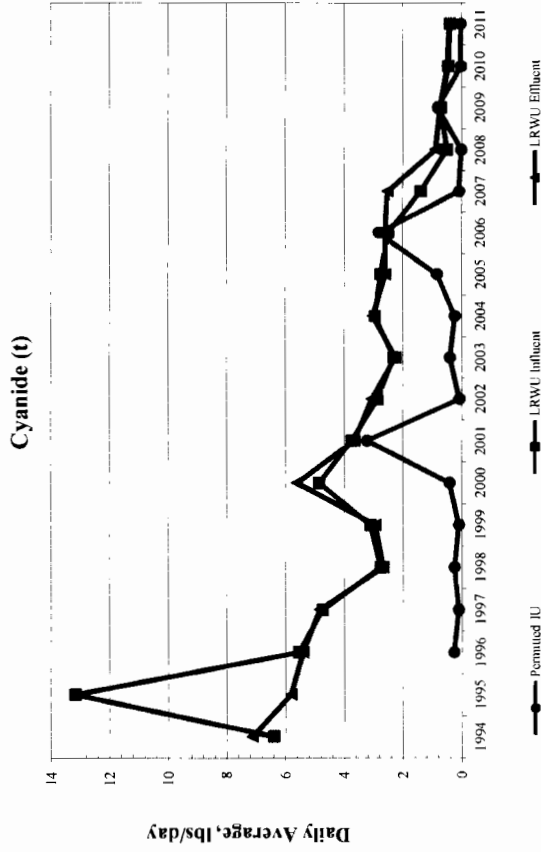
Trend charts are used to evaluate pollutant loading for the Little Rock Wastewater (LRW) system and to evaluate Industrial User (IU) contributions. Little Maumelle Treatment Plant came on online in 2011. Since there are no known industrial contributions to Little Maumelle only data for Adams Field and Fourche Creek Wastewater Treatment Plants is shown. The charts are organized in the following order:

- Total System Loading Trends – Charts were developed showing 1994 - 2011 loading, lbs/day, to Adams Field and Fourche Creek for flow, BOD, TSS, O&G and local limit pollutant parameters. For each individual analytical point the lbs/day is calculated using the flow for each sample date. In cases where the concentration is reported as less than the detection limit the detection limit number was used to calculate the lbs/day. This causes the loading (lbs/day) to be higher than what it would be if zero values were used in those instances.
- IU Percent Contributions 1996 - 2011– Charts were developed showing IU percent contributions starting 1996 to date. In 1997 permit renewal pollutant scans were implemented and are used to identify pollutants of concern and determine permit limits. Values, less than the detection limits or below levels of concern, are included in calculating total lbs of IU contribution.
- POTW Loading Trends - Influent/Effluent Loading, lbs/day, comparison charts were developed for the Adams Field and Fourche Creek Wastewater Treatment Plants for 1994 - 2011. These charts reveal trends in loading for each treatment plant. (% removal efficiencies, based on influent/effluent concentration values, can be found in Section VI of this report.)

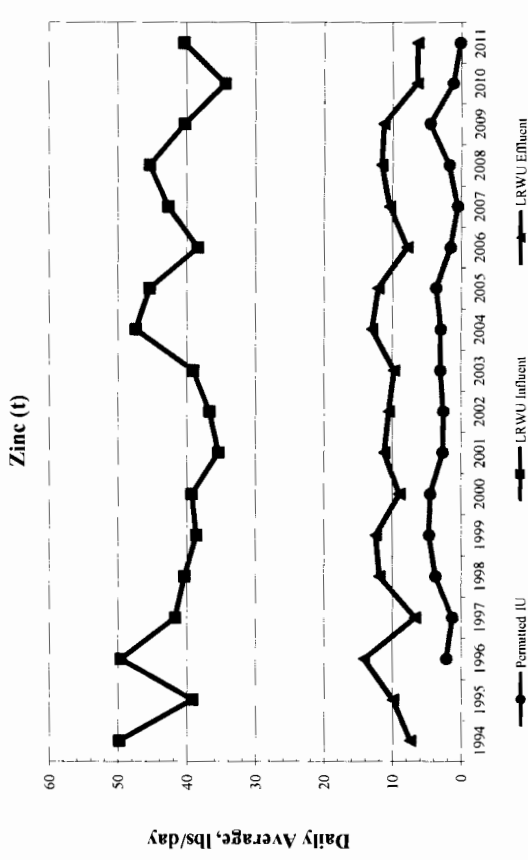
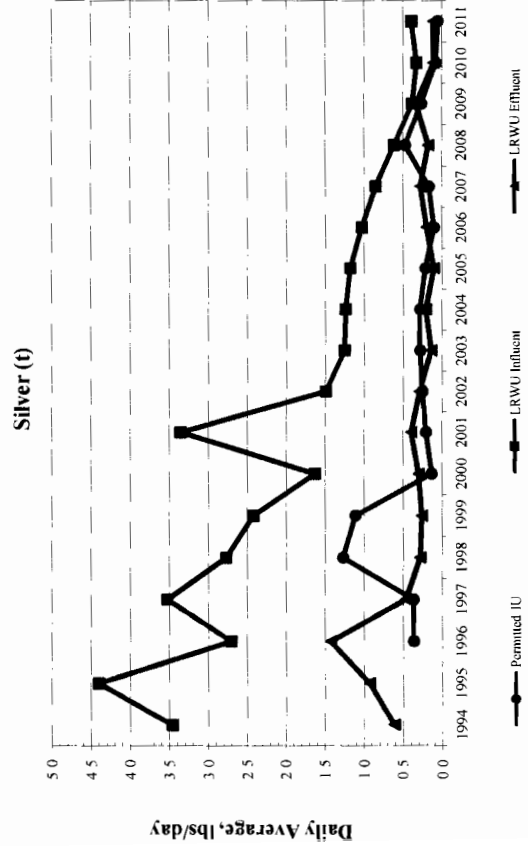
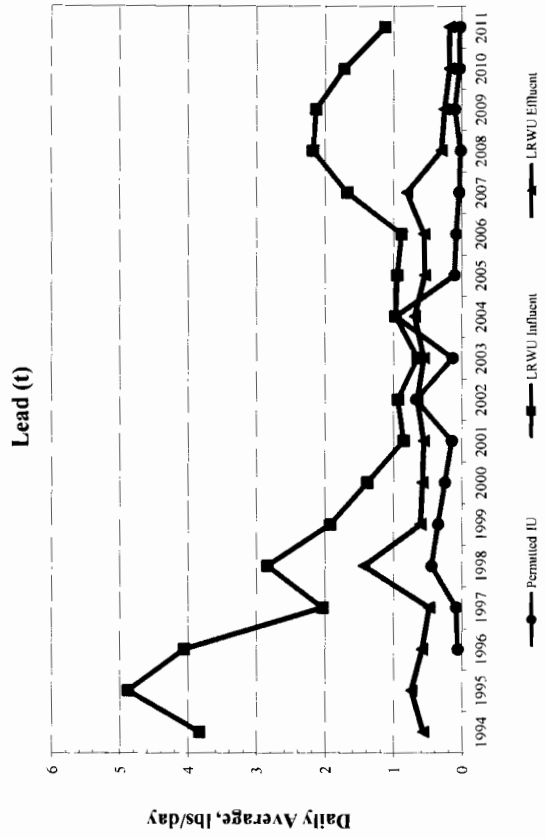
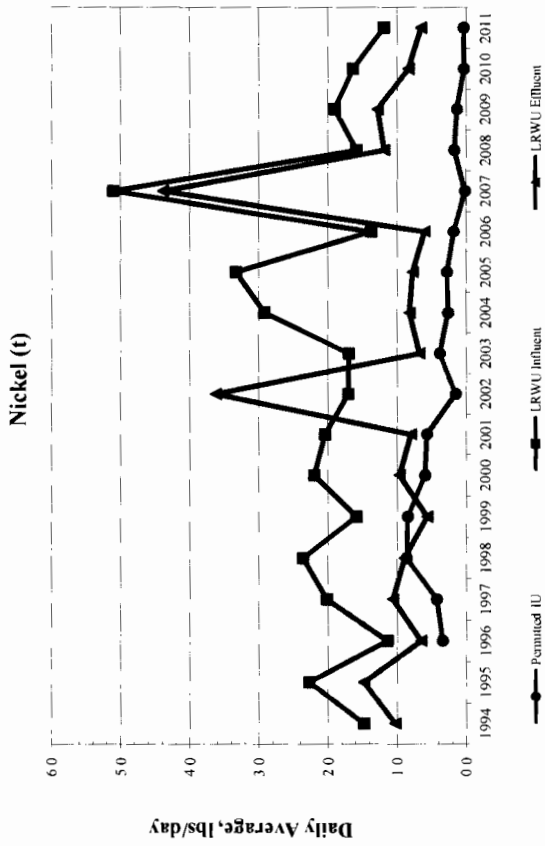
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 LRWU TOTAL SYSTEM LOADING TRENDS**



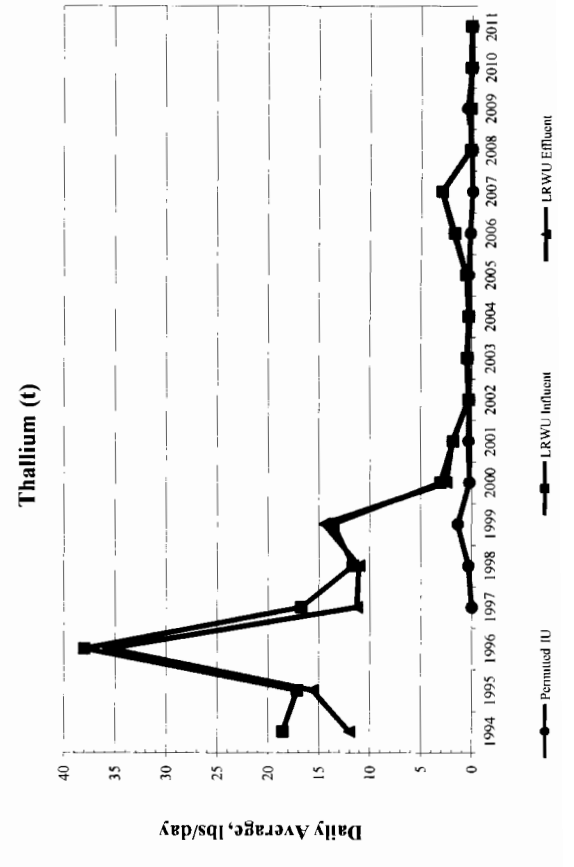
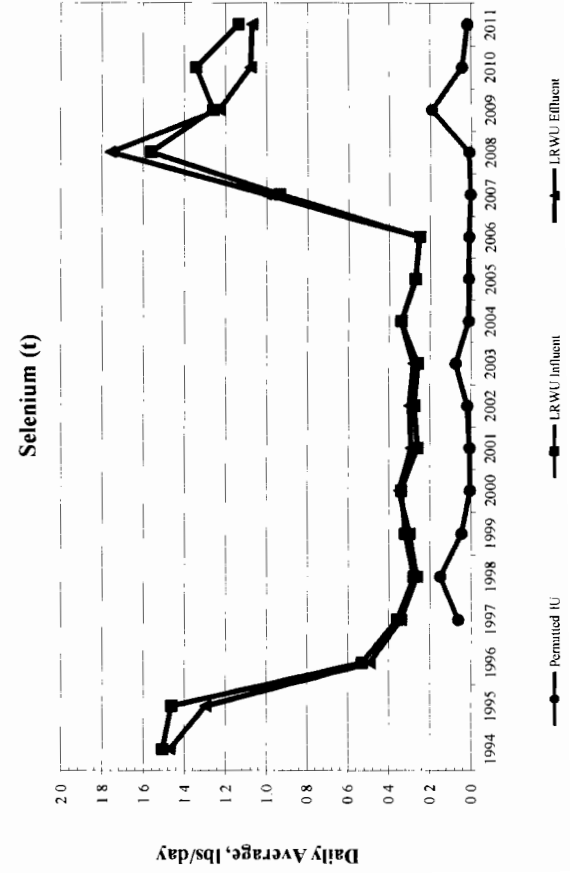
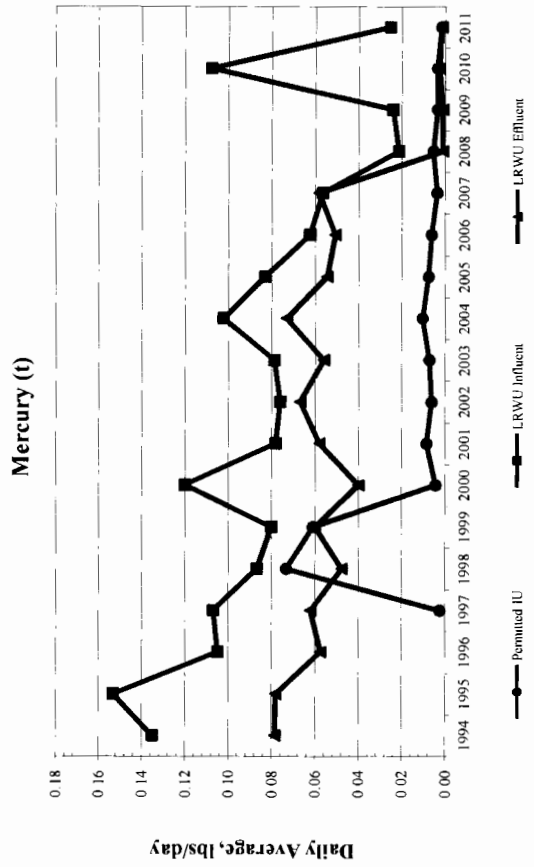
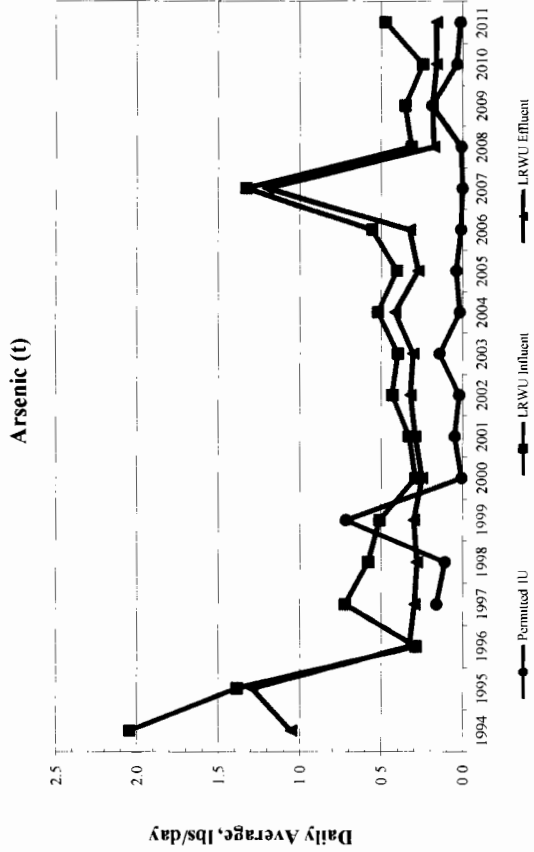
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 LRWU TOTAL SYSTEM LOADING TRENDS**



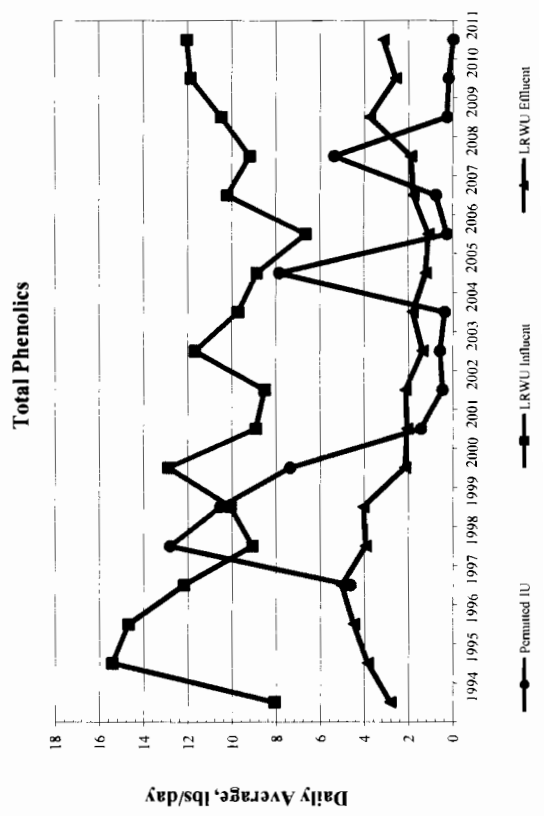
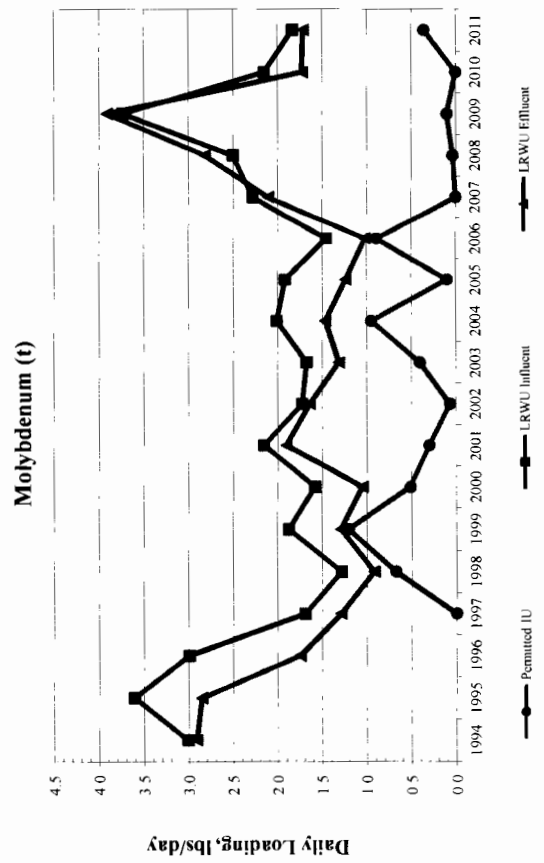
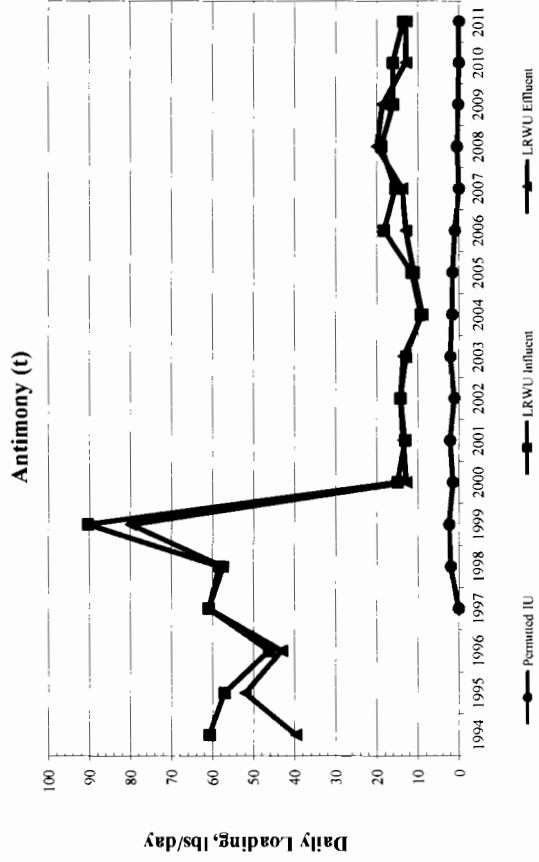
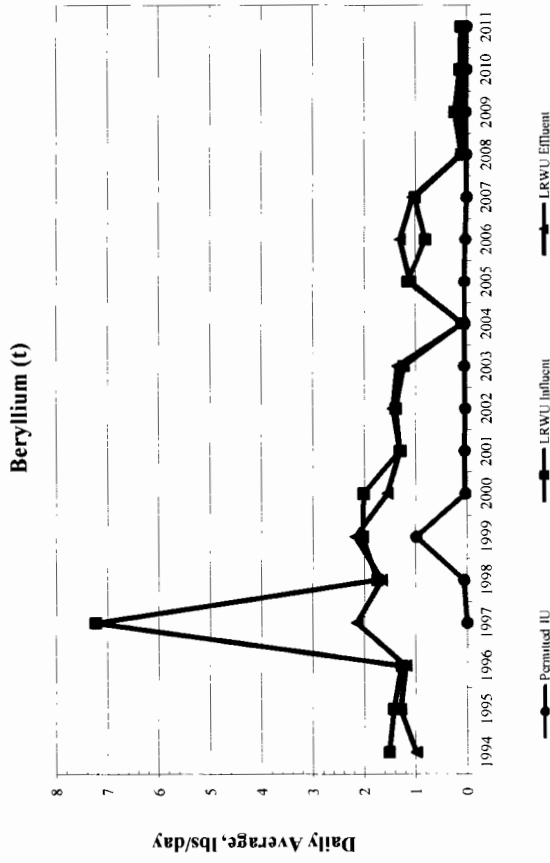
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 LRWU TOTAL SYSTEM LOADING TRENDS**



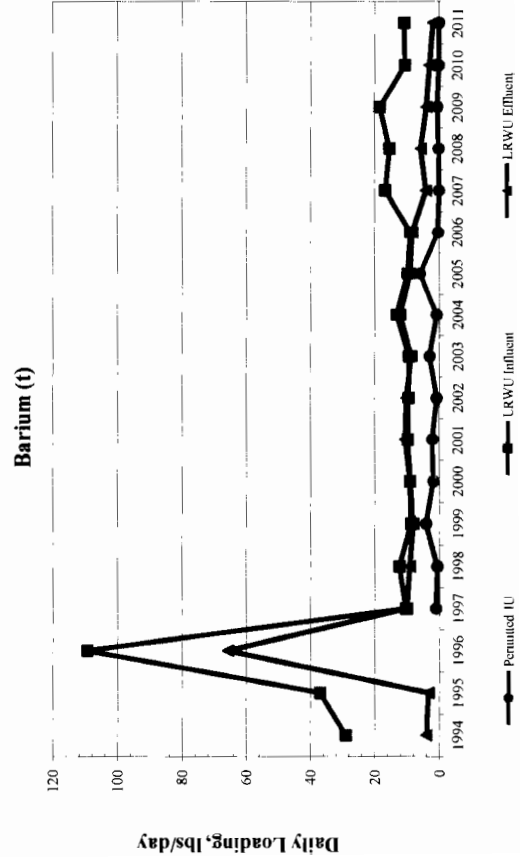
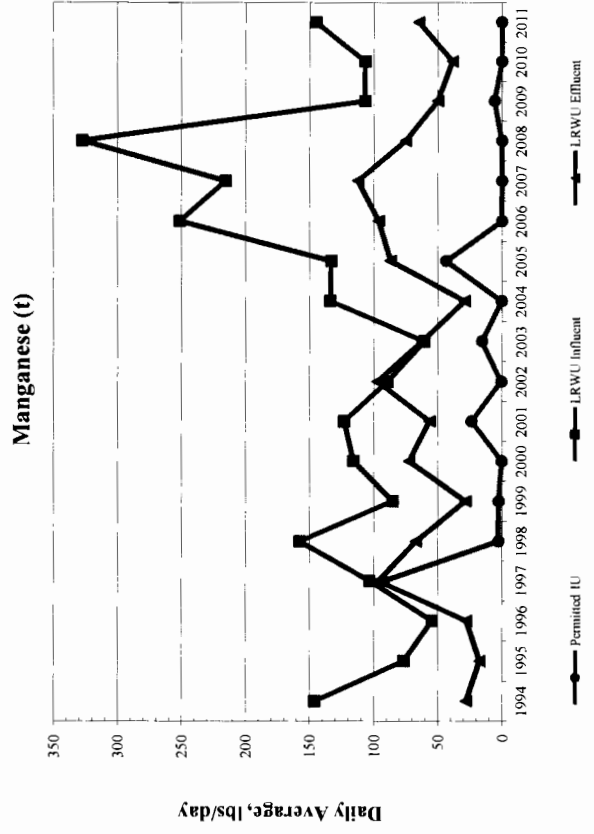
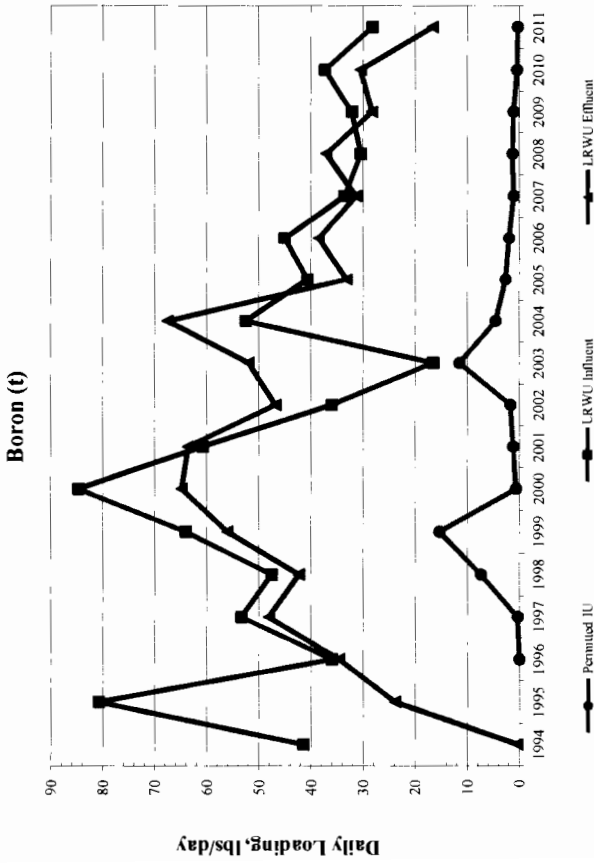
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 LRWU TOTAL SYSTEM LOADING TRENDS**



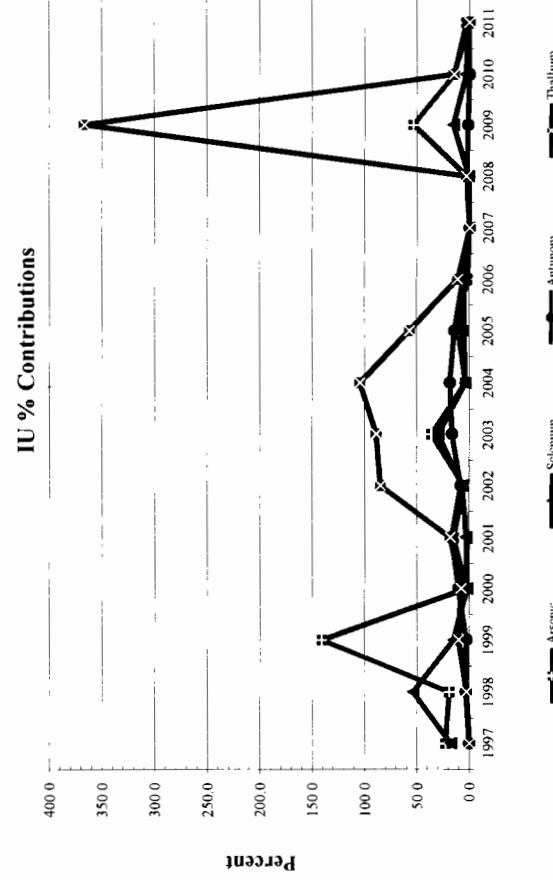
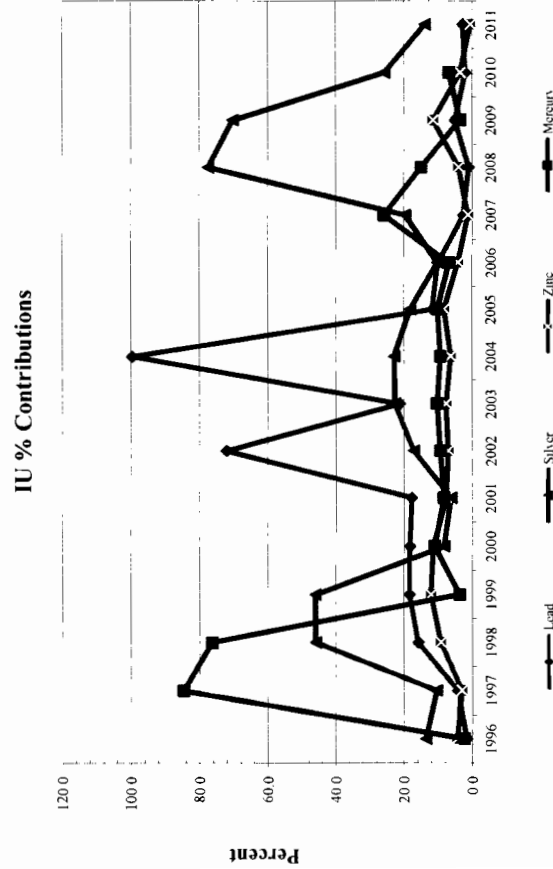
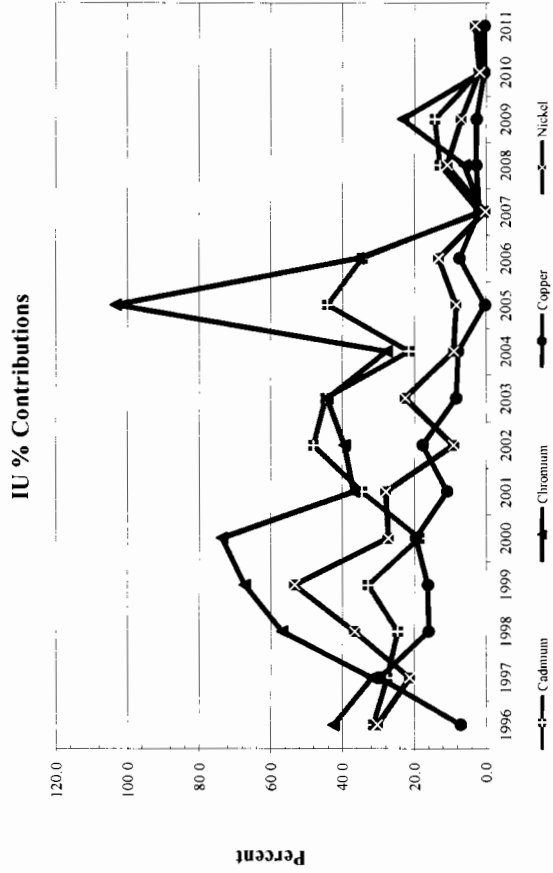
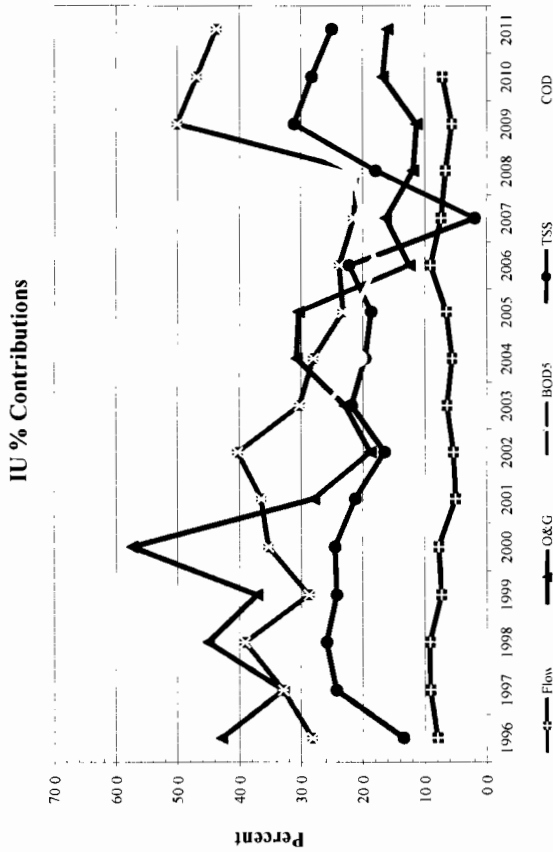
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 LRWU TOTAL SYSTEM LOADING TRENDS**



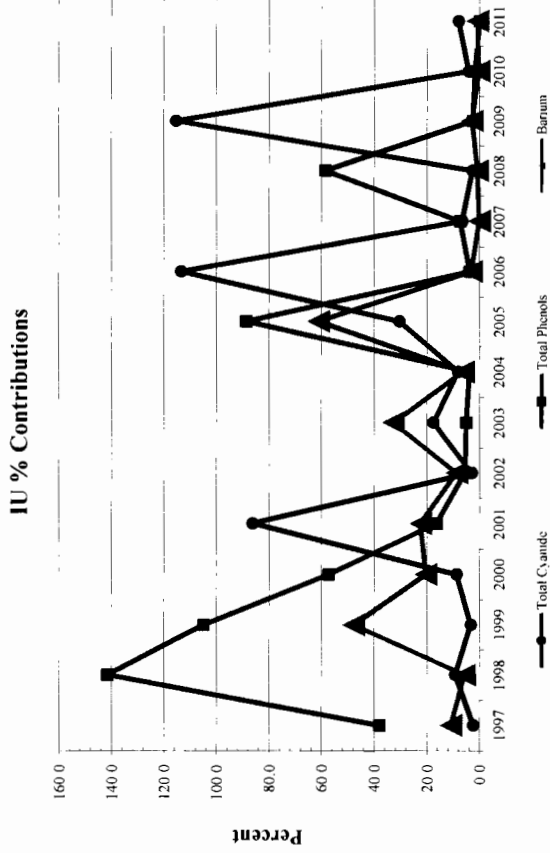
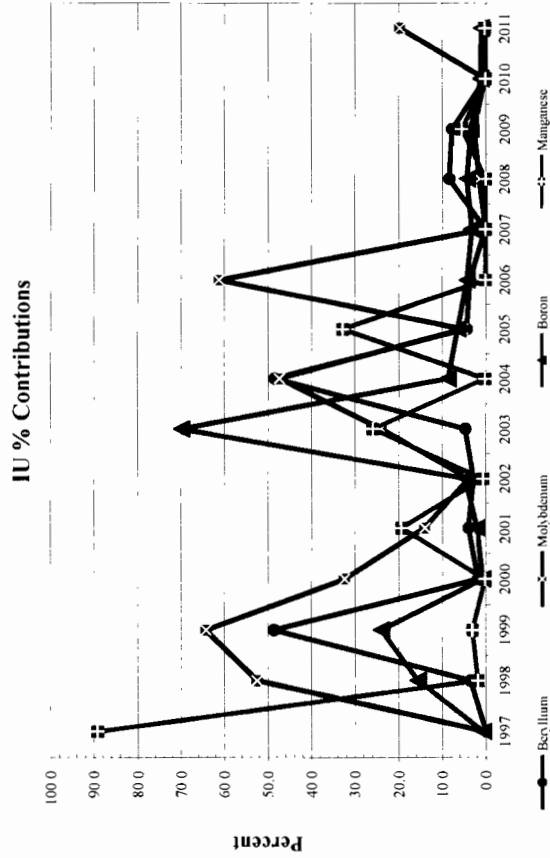
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 LRWU TOTAL SYSTEM LOADING TRENDS**



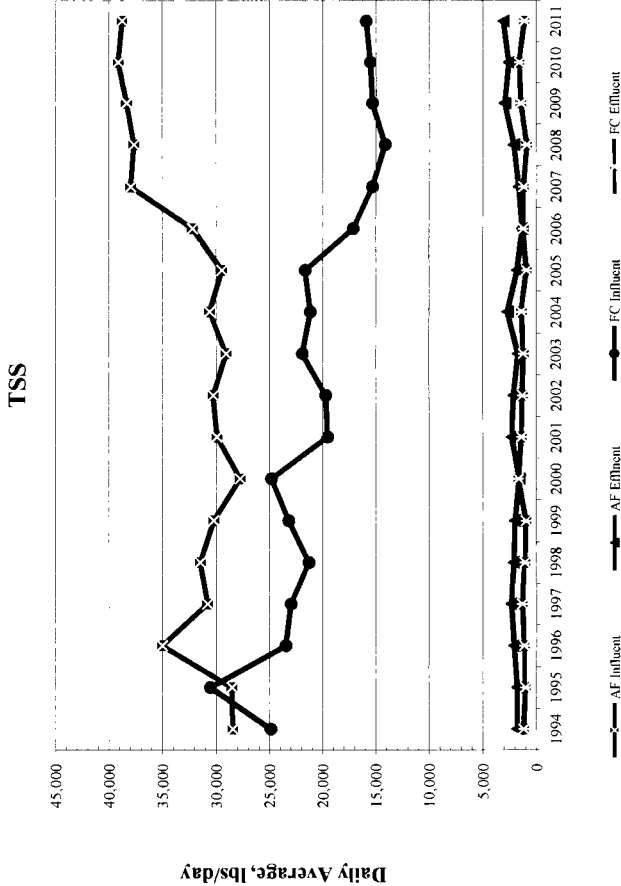
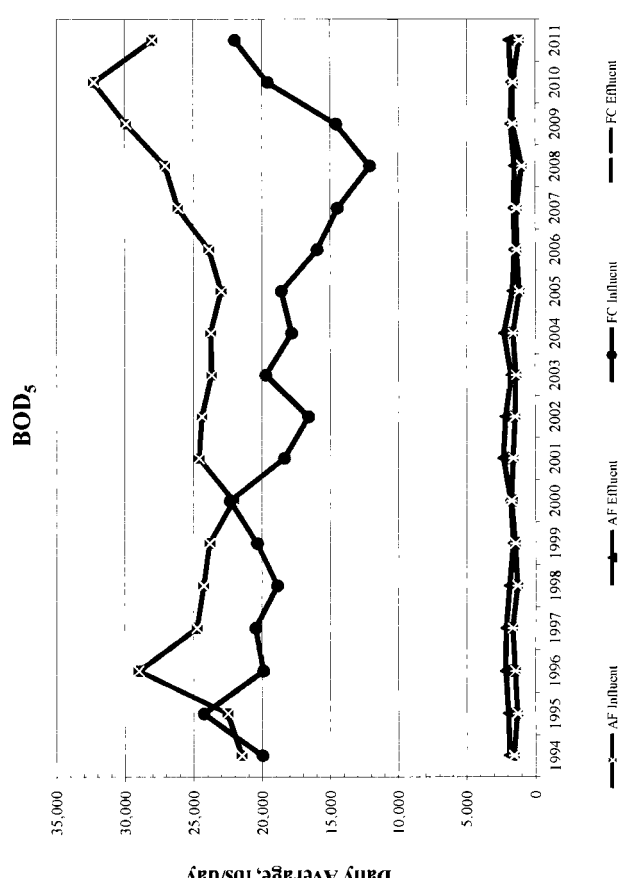
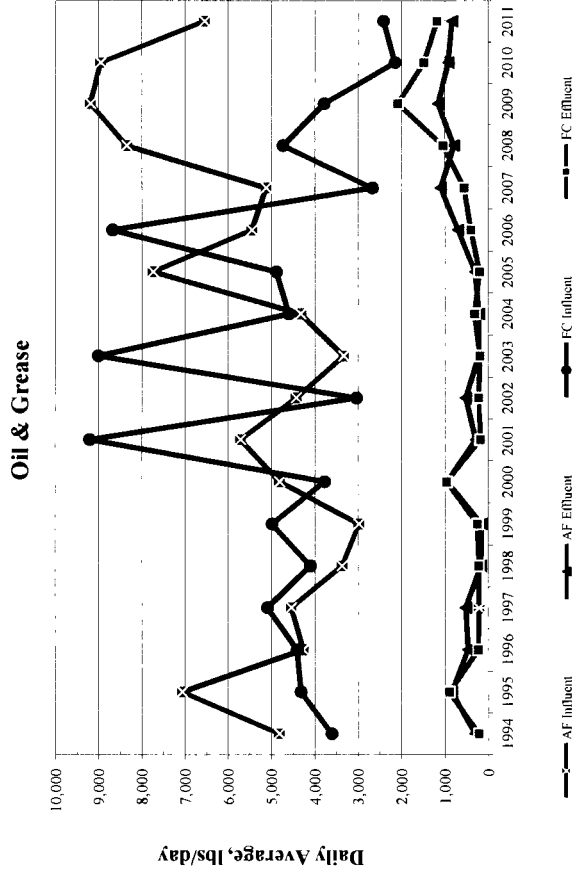
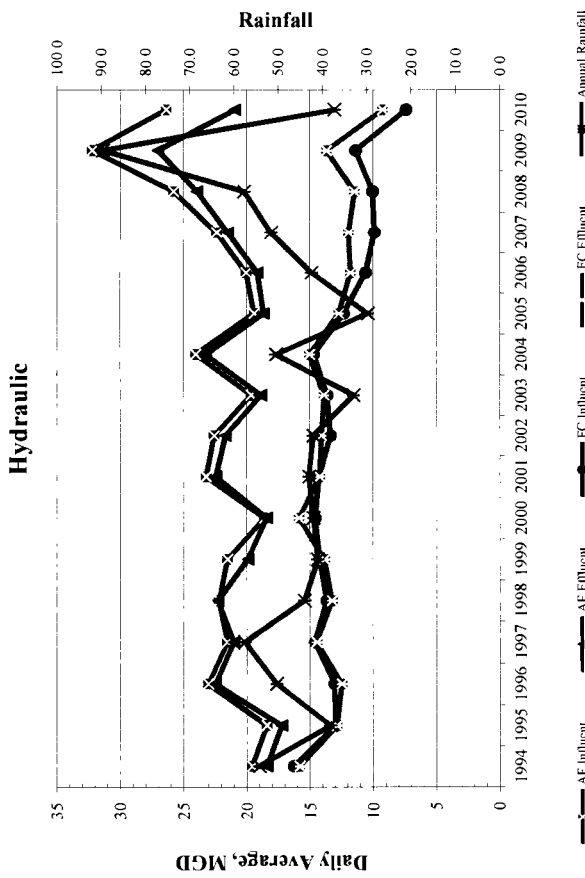
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
IU PERCENT CONTRIBUTIONS**



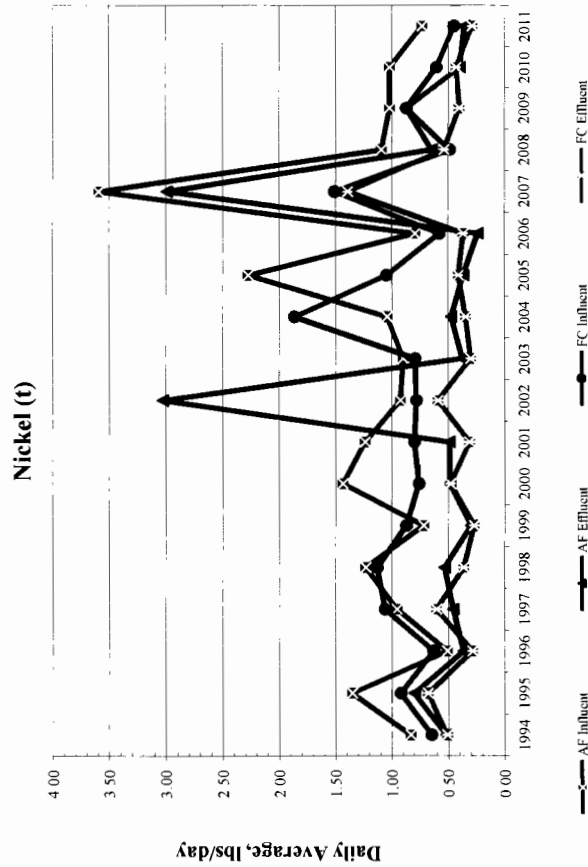
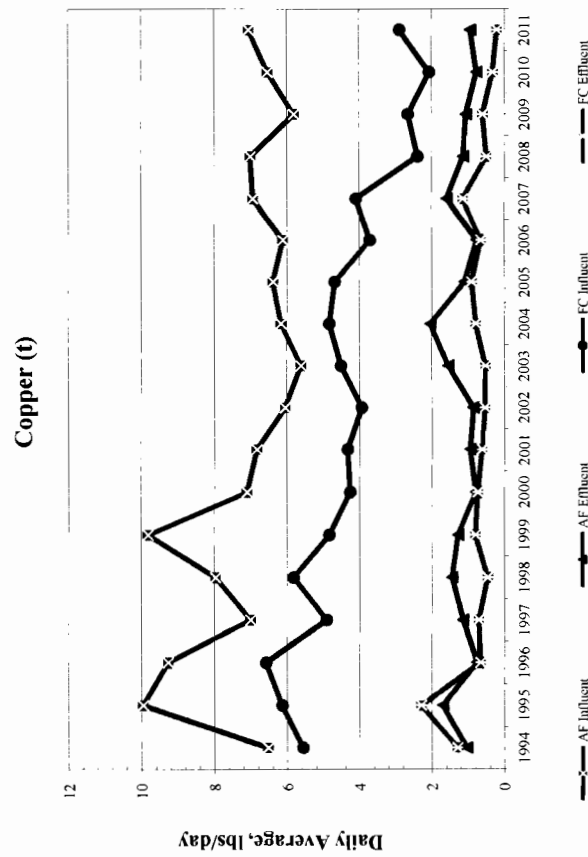
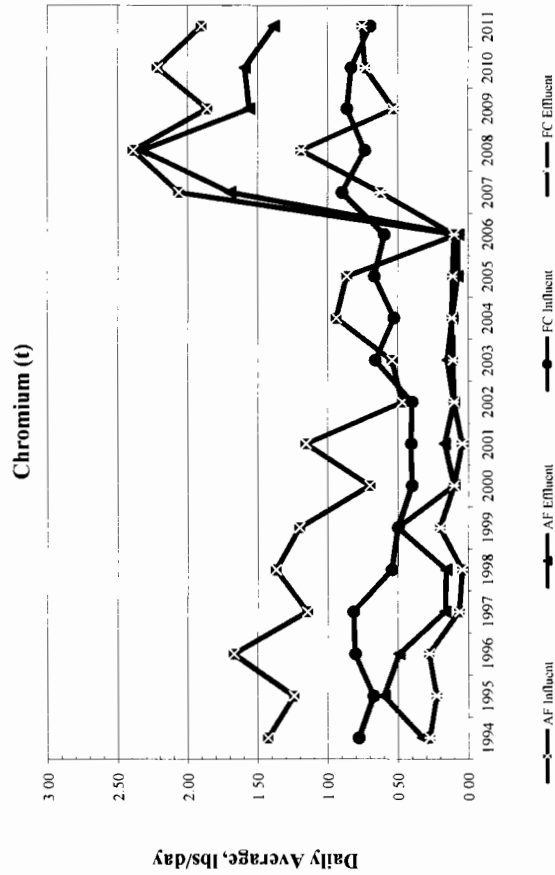
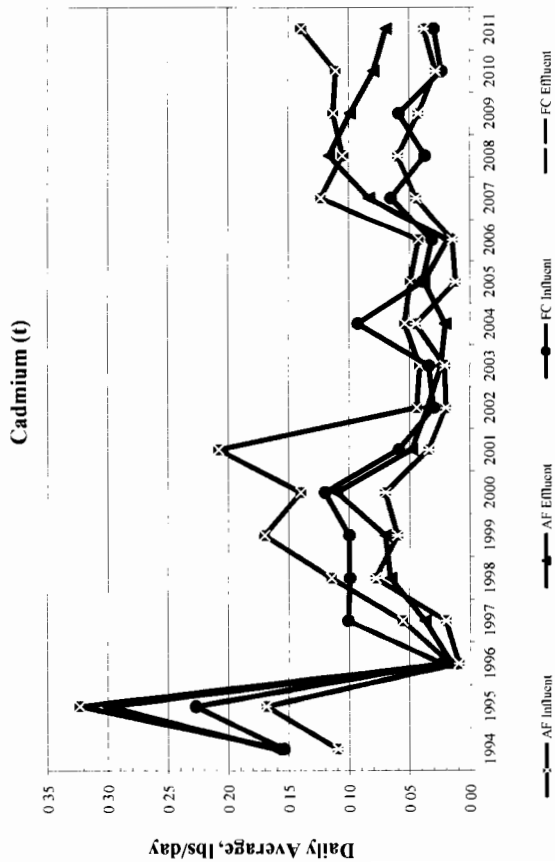
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
IU PERCENT CONTRIBUTIONS**



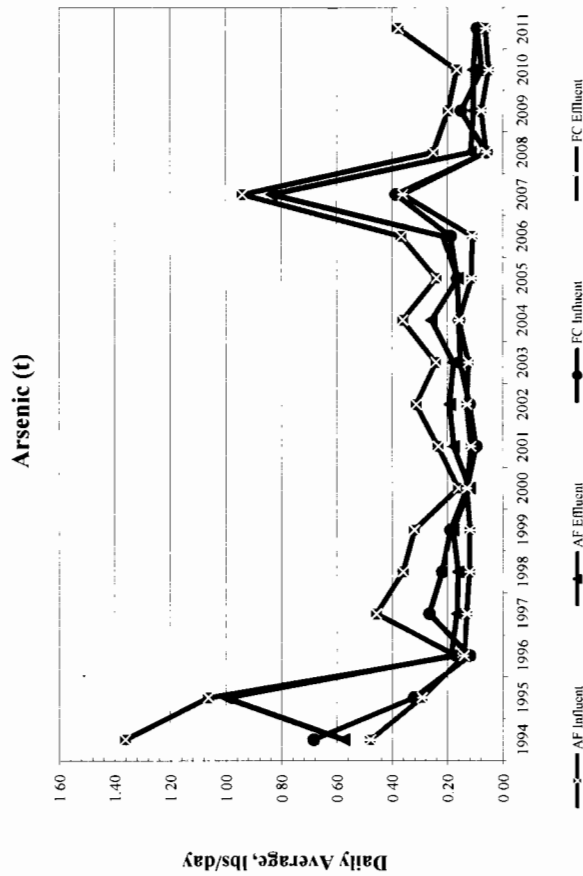
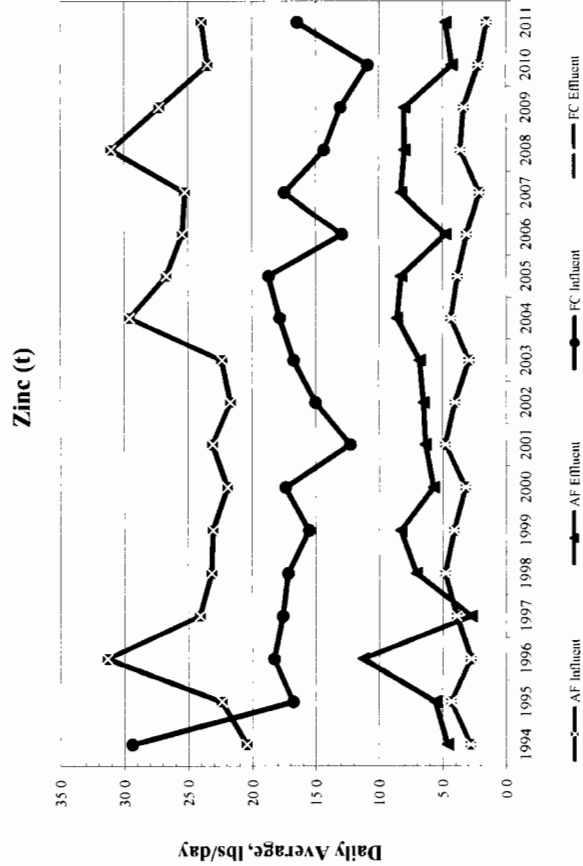
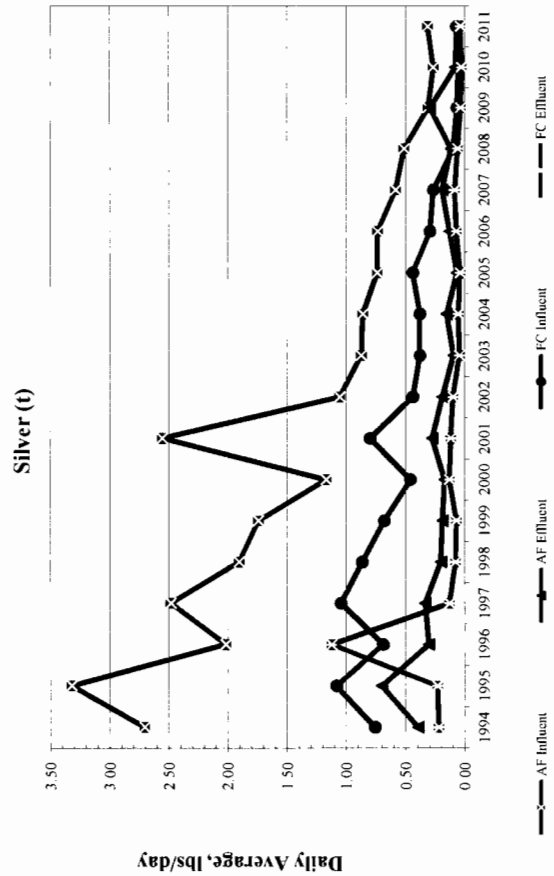
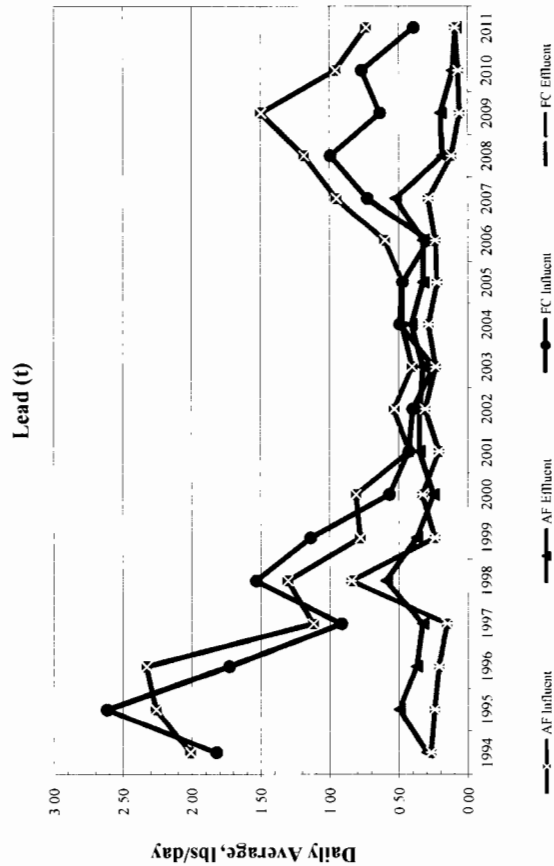
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS**



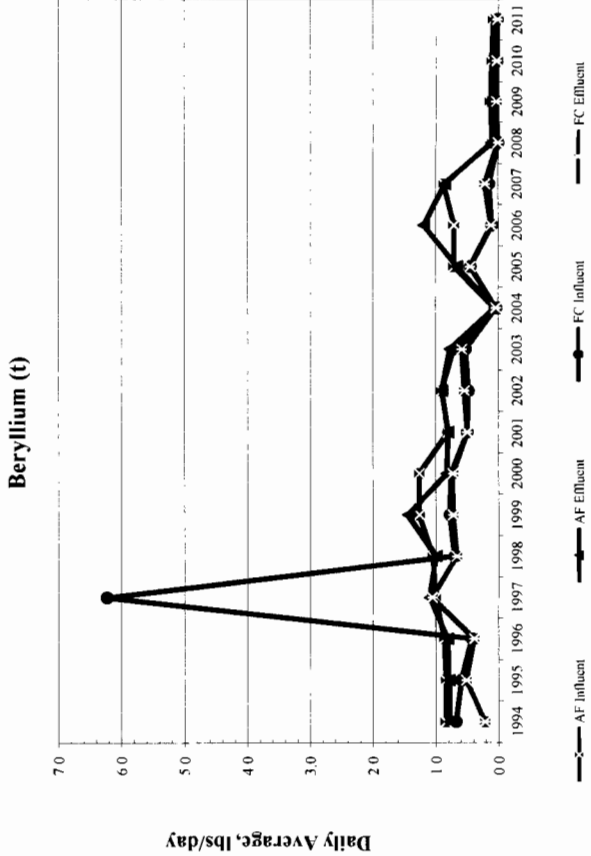
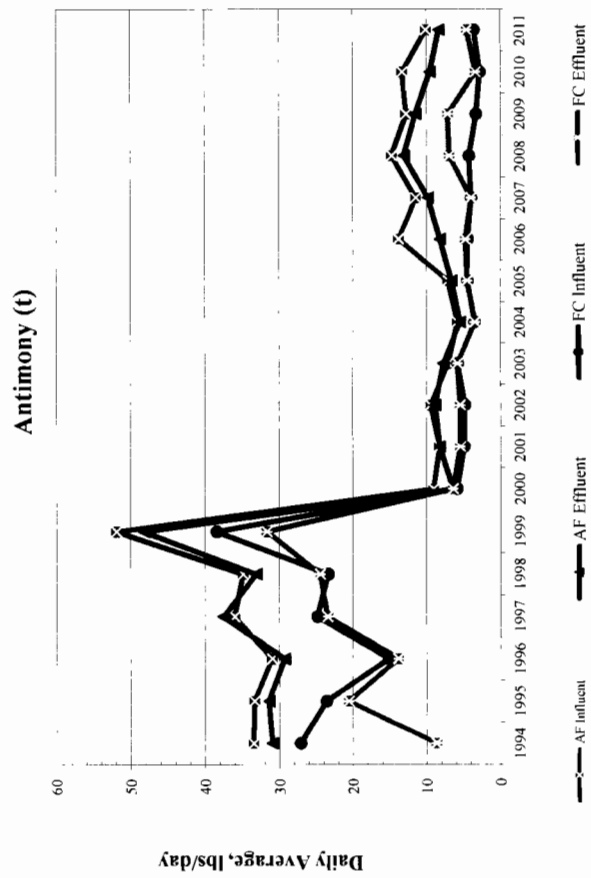
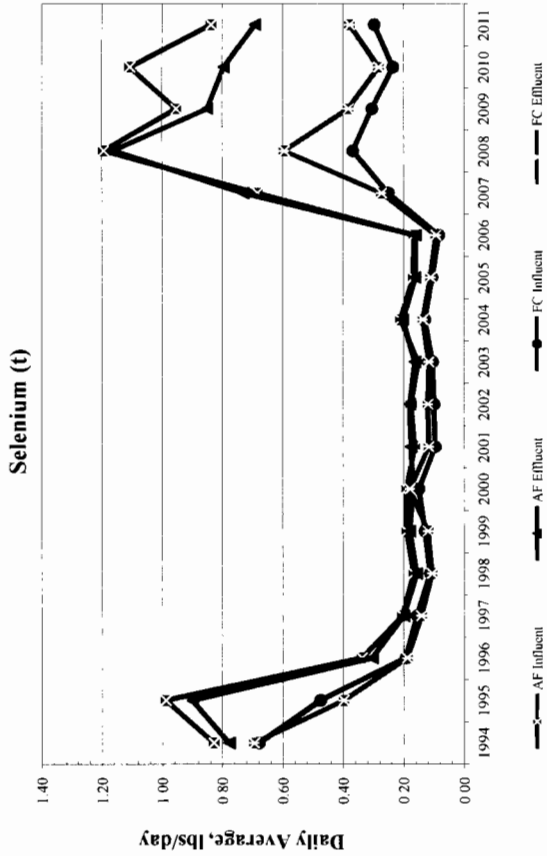
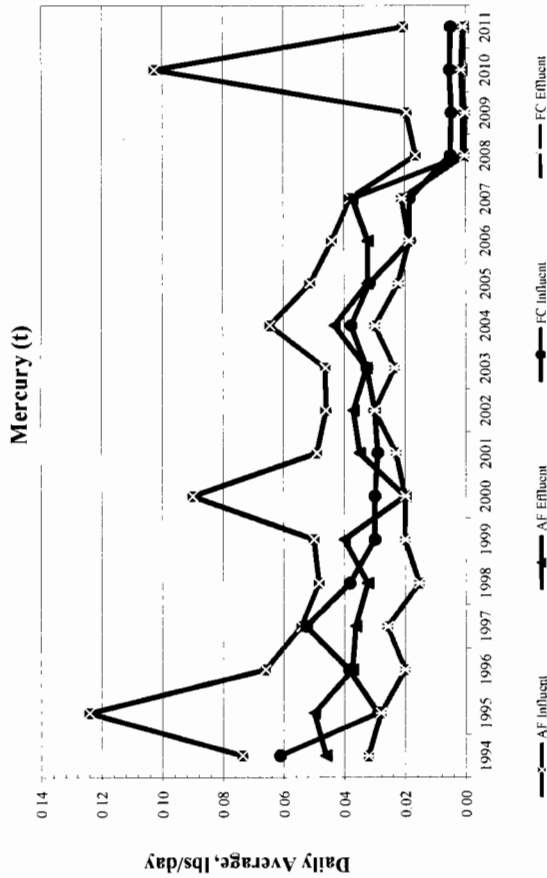
**LITTLE ROCK WASTEWATER
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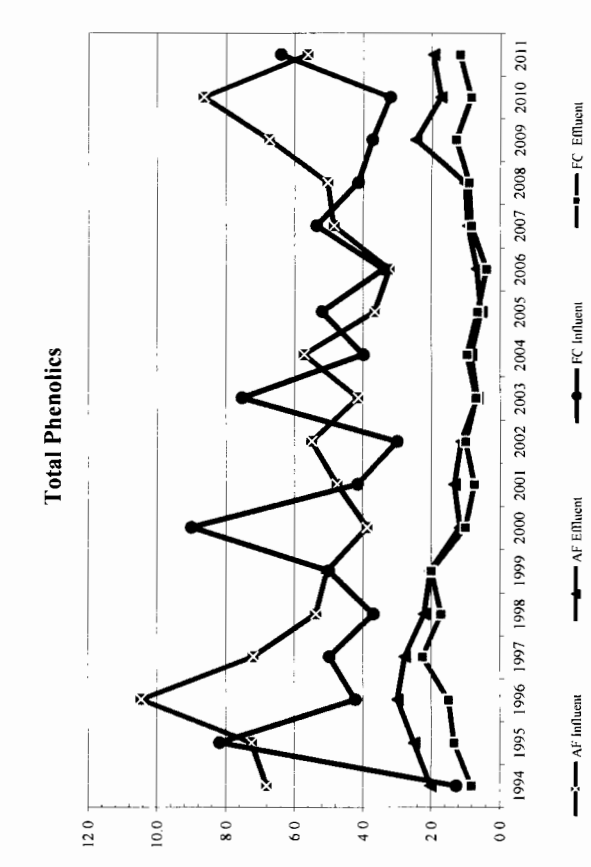
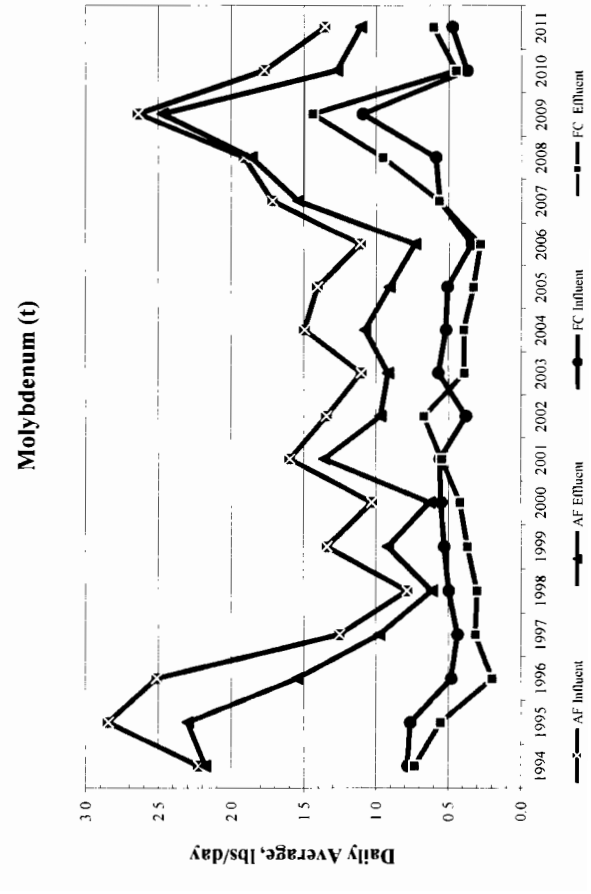
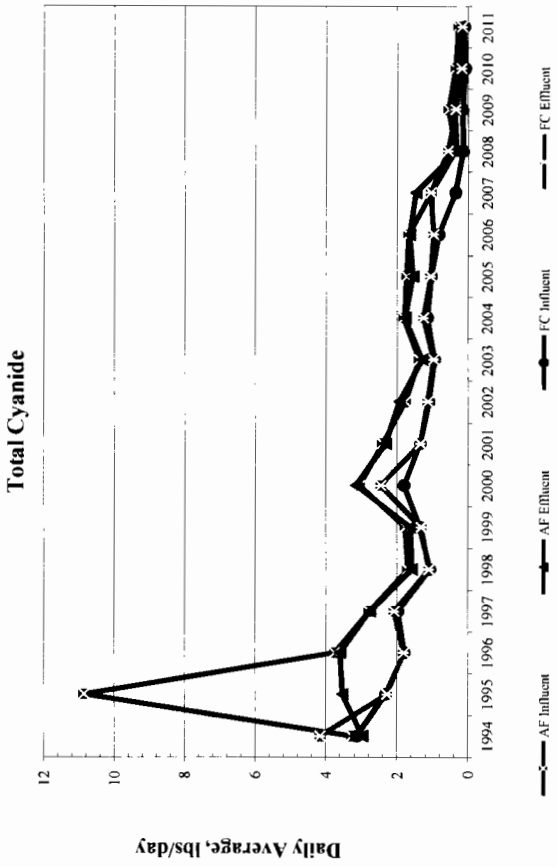
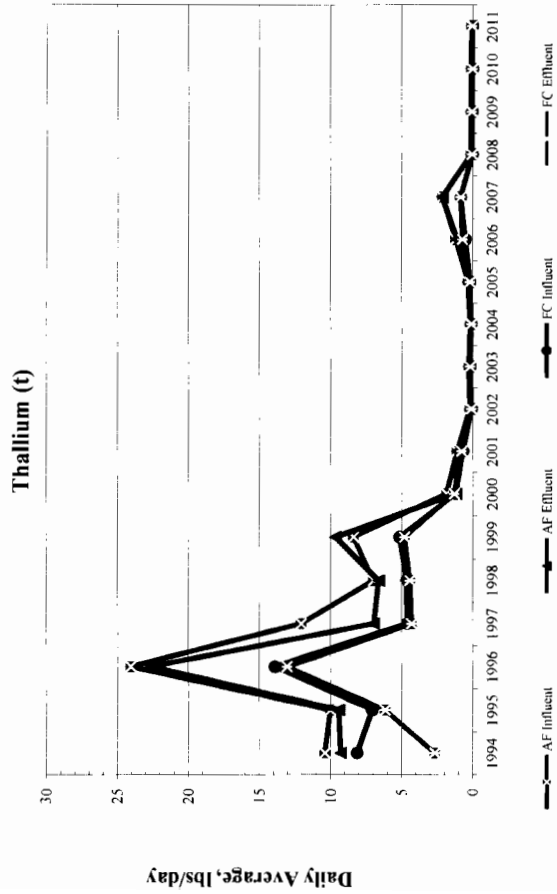
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS**



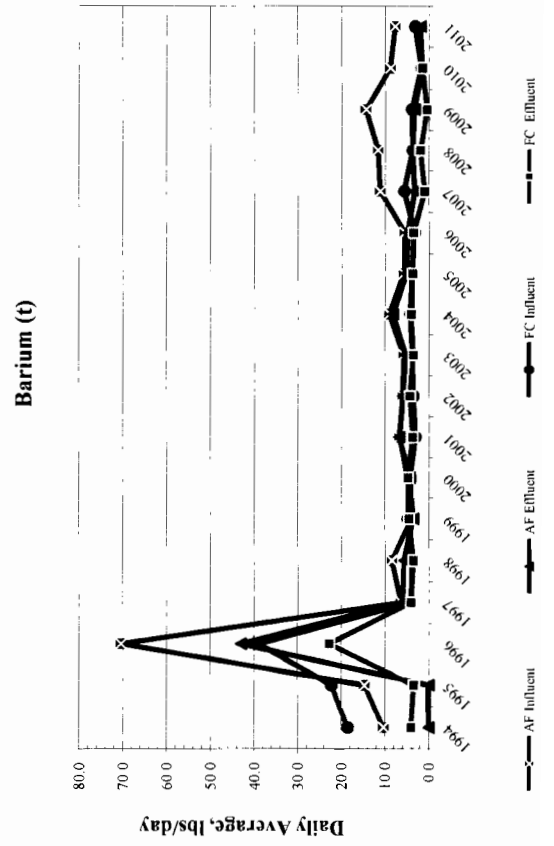
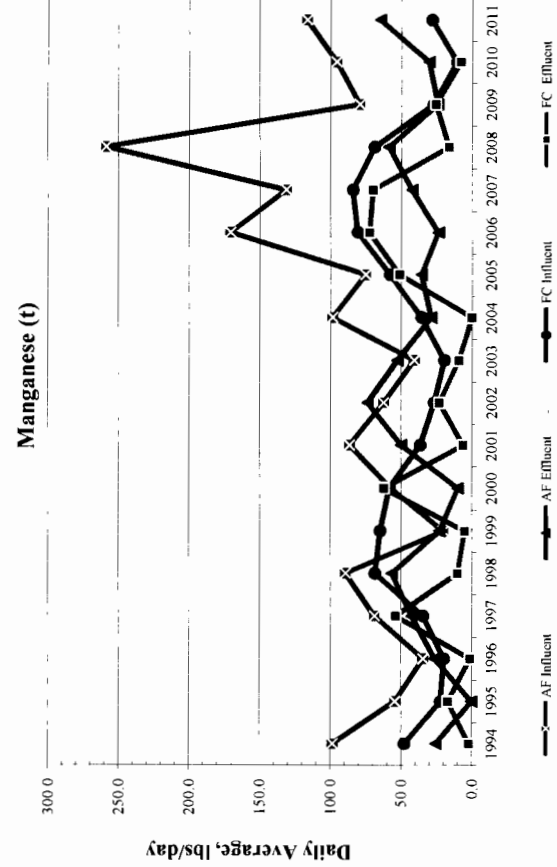
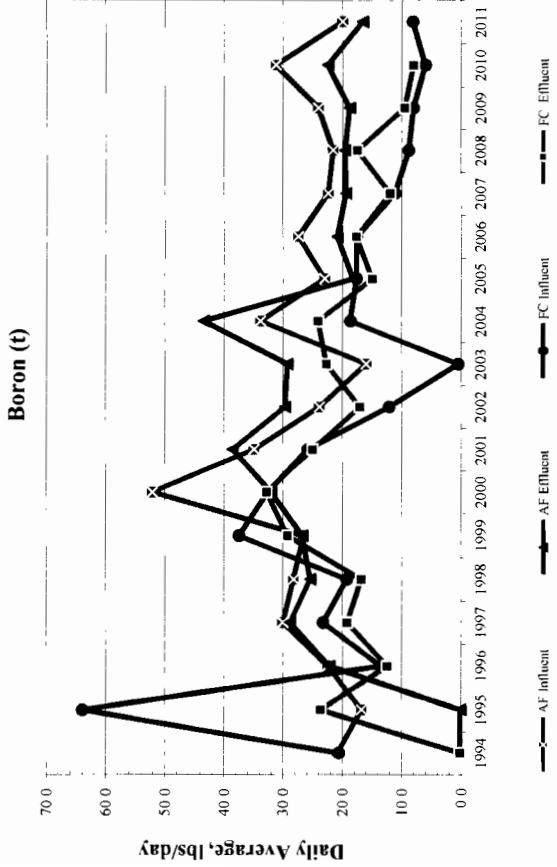
**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS**



**LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS**



**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS**



BIOSOLIDS 2011
SUMMARY OF ANALYTICAL RESULTS

FOURCHE CREEK SLUDGE ANALYSES

Sludge from both the Adams Field and Fourche Creek Wastewater Treatment Plant's are anaerobically digested at the Fourche Creek Wastewater Treatment Plant (FCWTP). The stabilized biosolids are further treated by lagooning for a period of two to four years. Biosolids are land applied as a soil conditioner/fertilizer on grass farms and pasture lands in Pulaski County, Arkansas. A total of 4202 dry tons of biosolids were land applied during 2011.

Biosolids from Lagoon 3 and 4 were below the ceiling and pollutant concentrations listed in 40 CFR 503. Biosolids from both lagoons met Class A pathogen requirements 40CFR503.32(a)(6). The data collected prior to land application is organized in the following table:

- FCWTP Biosolids Lagoon Number 3 and 4 - This table includes the required metal test data from 40 CFR Part 503. The metals concentrations were below the 503.13 Table 1 Ceiling Concentrations and the 503.13 Table 3 Pollutant Concentrations. The ceiling concentrations and pollutant concentration limits, where applicable, are included in the table for comparison.

**FOURCHE CREEK WASTEWATER TREATMENT PLANT
BIOSOLIDS 2011-LAGOONS 3 AND 4
METAL ANALYSIS SUMMARY**

| Sample Date | Sample Location | Sample Type | Test Parameters - Reported in mg/kg dry | | | | | | | | | | | | | % solids | % volatile solids | pH |
|-------------|-----------------|-------------|---|-----------|------------|-----------|------------|-------------|----------------------|-----------------|-------------|----------------------|-------------|--------------|-------------|----------|-------------------|----|
| | | | As(t) | Cd(t) | Cr(t) | Cu(t) | Pb(t) | Hg(t) | Mo(t) | Ni(t) | Se(t) | Ag(t) | Zn(t) | CN-(t) | | | | |
| 3/29/2011 | 046-3-001 | grab | 9.5 < 0.4 | 50 | 330 | 71 | 1.3 | 12.0 | 26.0 < 7.0 | < 0.7 | 940 | < 7.30 | 6.40 | 50.63 | 8.25 | | | |
| | 046-3-002 | grab | 8.2 < 0.4 | 330 | 73 | 1.6 | 12.0 | 27 < 7.0 | | 880 | | 7.83 | 49.70 | 8.11 | | | | |
| | 046-3-003 | grab | 7.8 < 0.4 | 310 | 92 | 1.4 | 11.0 | 31 < 7.0 | | 890 | | 6.88 | 49.61 | 7.72 | | | | |
| | 046-3-004 | grab | 9.2 < 0.4 | 320 | 64 | 1.5 | 12.0 | 27 < 7.0 | | 920 | | 6.04 | 53.30 | 7.88 | | | | |
| | 046-3-005 | grab | 9.1 < 0.4 | 320 | 73 | 1.3 | 11.0 | 30 < 7.0 | | 920 | | 6.41 | 51.07 | 7.80 | | | | |
| | 046-3-006 | grab | 9.0 < 0.4 | 330 | 69 | 1.3 | 12.0 | 26 < 7.0 | | 950 | | 6.53 | 51.5 | 7.78 | | | | |
| | Lagoon 3 | AVG | 8.8 < 0.4 | 50 | 323 | 74 | 1.4 | 11.7 | 27.8 < 7.0 | < 0.7 | 917 | < 7.30 | 6.68 | 50.97 | 7.92 | | | |
| 4/19/2011 | 046-4-001 | grab | 11.0 < 0.4 | 55 | 340 | 56 | 1.0 | 11.0 | 25 | 18.0 | 18 | 1000 < 7.90 | 5.90 | | 7.85 | | | |
| | 046-4-002 | grab | 9.5 < 0.4 | 340 | 57 | 1.3 | 11.0 | 25 | 17.0 | | 980 | | 7.10 | | 7.94 | | | |
| | 046-4-003 | grab | 8.1 < 0.4 | 300 | 48 | 1.0 | 11.0 | 22 | 12.0 | | 880 | | 5.00 | | 7.74 | | | |
| | 046-4-004 | grab | 10.0 < 0.4 | 340 | 52 | 1.4 | 12.0 | 25 | 14.0 | | 990 | | 5.50 | | 7.92 | | | |
| | 046-4-005 | grab | 10.0 < 0.4 | 340 | 54 | 1.3 | 11.0 | 26 | 15.0 | | 980 | | 6.60 | | 7.82 | | | |
| | 046-4-006 | grab | 9.3 < 0.4 | 340 | 51 | 1.6 | 11.0 | 24.0 | 18.0 | | 960 | | 6.00 | | 7.64 | | | |
| | Lagoon 4 | AVG | 9.7 < 0.4 | 55 | 333 | 53 | 1.3 | 11.2 | 24.5 | 15.7 | 18.0 | 965 < 7.90 | 6.02 | | 7.82 | | | |

| | | | | | | | | | | | | | |
|----------------|----------------------|-----------|------------|-----------|------------|-------------|-----------------------|-----------------|------------|-----------------------|-------------|--------------|-------------|
| Average | 9.2 < 0.4 | 53 | 328 | 63 | 1.3 | 11.4 | 26.2 < 11.3 | < 9.4 | 941 | < 7.60 | 6.35 | 50.97 | 7.95 |
| Maximum | 11.0 < 0.4 | 55 | 340 | 92 | 1.6 | 12.0 | 31 | 18.0 | 18 | 1000 < 7.90 | 7.83 | 53.3 | 8.25 |
| Minimum | 7.8 < 0.4 | 50 | 300 | 48 | 1.0 | 11.0 | 22.0 < 7.0 | < 0.7 | 880 | < 7.30 | 5 | 49.61 | 7.64 |

| | | | | | | | | | | | | |
|------------------------------------|-------------|-----------|------------|-------------|------------|-----------|-------------|--------------|--------------|------------|-------------|------------|
| *Ceiling Conc., mg/kg dry | 75.0 | 85 | n/a | 4300 | 840 | 57 | 75.0 | 420.0 | 100.0 | n/a | 7500 | n/a |
| *Pollutant Conc., mg/kg dry | 41.0 | 39 | n/a | 1500 | 300 | 17 | n/a | 420.0 | 36.0 | n/a | 2800 | n/a |

*40CFR Part 503.13 Table 1 and 3 Limits for Land Application

% Volatile Solids tests, requested by the Chain of Custody for Lagoon No.4, were not tested within the approved holding period.

Biosolids analysis were performed using EPA SW-846 test methods for evaluation of solid waste

NUTRIENTS

FOURCHE CREEK WASTEWATER TREATMENT PLANT
 BIOSOLIDS 2011-LAGOONS 3 AND 4
 NUTRIENTS ANALYSIS SUMMARY

| Sample Date | Sample Location | Sample Type | Test Parameters - Reported in mg/kg dry | | | | | | Total Kjeldahl Nitrogen | PCB* TCLP* |
|-------------|-----------------|-------------|---|--------------|--------------|-------------|--------------|--------------|-------------------------|------------|
| | | | Nitrate(NO3) | Nitrite(NO2) | Phosphorus | Potassium | Ammonia as N | Ammonia as N | | |
| 3/29/2011 | 046-3-001 | Grab | < 5.0 | < 5.0 | 36000 | 3200 | 18000 | 54000 | | |
| | 046-3-002 | Grab | < 5.0 | < 5.0 | 34000 | 2900 | 18000 | 46000 | | |
| | 046-3-003 | Grab | < 5.0 | < 5.0 | 33000 | 2300 | 18000 | 46000 | | |
| | 046-3-004 | Grab | < 5.0 | < 5.0 | 34000 | 3000 | 18000 | 46000 | | |
| | 046-3-005 | Grab | < 5.0 | < 5.0 | 33000 | 3400 | 14000 | 51000 | | |
| | 046-3-006 | Grab | < 5.0 | < 5.0 | 36000 | 3000 | 19000 | 62000 | | |
| | Lagoon 3 | AVG | < 5.0 | < 5.0 | 34333 | 2967 | 17500 | 50833 | < 1.7 Pass | |
| 4/19/2011 | 046-4-001 | Grab | < 5.0 | < 5.0 | 39000 | 3300 | 17000 | 42000 | | |
| | 046-4-002 | Grab | 160.0 | < 5.0 | 38000 | 3100 | 17000 | 62000 | | |
| | 046-4-003 | Grab | 55.0 | < 5.0 | 40000 | 2700 | 18000 | 45000 | | |
| | 046-4-004 | Grab | < 5.0 | < 5.0 | 40000 | 3000 | 47000 | 49000 | | |
| | 046-4-005 | Grab | 260.0 | < 5.0 | 38000 | 3100 | 15000 | 41000 | | |
| | 046-4-006 | Grab | 89.0 | < 5.0 | 38000 | 3000 | 16000 | 45000 | | |
| | Lagoon 4 | AVG | < 95.7 | < 5.0 | 38833 | 3033 | 21667 | 47333 | < 1.7 Pass | |

| | | | | | | | | |
|----------------|--------|-------|-------|------|-------|-------|-------|------|
| Average | < 50.3 | < 5.0 | 36583 | 3000 | 19583 | 49083 | < 1.7 | Pass |
| Maximum | 260.0 | < 5.0 | 40000 | 3400 | 47000 | 62000 | < 1.7 | |
| Minimum | < 5.0 | < 5.0 | 33000 | 2300 | 14000 | 41000 | < 1.7 | |

* 503.6(e) 503 does not establish requirements for use or disposal if determined to be hazardous in accordance to 40CFR261.
 * 503.6(f) 503 does not establish requirements for use or disposal if concentration of PCBs is equal to or greater than 50 mg/kg dry.
 Biosolids analysis were performed using EPA SW-846 test methods for evaluation of solid waste
 PCB and TCLP sample for each lagoon was 6 part composite intergrated by weight.

PPS Program Report

C- ARO050849
C- ARO040177

* NPDES ID: AR0021806

Permittee's Name Little Rock

* Report Received/Event Date: 3/30/12

Date 4/2/12

Report Type

Please select a Program Report to add

- Biosolids Program Report
- CAFO Annual Report
- CSO Event Report
- Local Limits Report
- MS4 Program Report

Pretreatment Performance Summary Report

SSO Annual Report

SSO Event Report

SSO Monthly Event Report

Storm Water Event Report

(Allen Gilliam)

CONTINUE

Report Information

* Pretreatment Performance Summary Start Date: 1/1/2011

Significant Industrial Users (SIUs)

SIUs: 36

SIUs Without Control Mechanism: 0

SIUs Not Inspected: 0

SIUs Not Sampled: 0

SIUs in SNC with Pretreatment Standards: 0

SIUs in SNC with Reporting Requirements: 0

SIUs in SNC with Pretreatment Schedule: 0

SIUs in SNC Published in Newspaper: 0

SIUs Schedules: 0

Violation Notices Issued to SIUs: 2

Administrative Orders Issued to SIUs: 0

Civil Suits Filed Against SIUs: 0

Criminal Suits Filed Against SIUs: 0

Categorical Industrial Users (CIUs)

CIUs: 14

CIUs in SNC: 0

Penalties

Dollar Amount of Penalties Collected: \$ 2,430

Industrial Users (IUs) from which Penalties have been collected: 4

Other Information

SUO Reference: _____

SUO Date: _____

Annual Pretreatment Budget: \$ _____

Pass-Through/Interference Indicator:

Notification of IU Schedule for Remedial Measures: No

Immediate Response to Violation of IU Schedule for Remedial Measures:

Local Limits

Date of Most Recent Technical Evaluation & or Local Limits: _____

Date of Most Recent Adoption of Technically Based Local Limits: _____

Local Limit Pollutants: _____

ADD / REMOVE

Removal Credits

Removal Credits Application Status: Not Applicable

Date of Most Recent Removal Credits Approval: _____

Removal Credits: _____

ADD / REMOVE

Acceptance of Waste

Acceptance of Hazardous Waste: No

Acceptance of Non-Hazardous Industrial Waste: No

Acceptance of Hauled Domestic Wastes: No

Deficiencies

Deficiencies Identified During IU File Review: No

Control Mechanism Deficiencies: No

Legal Authority Deficiencies: No

Deficiencies in Data Management and Public Participation: No

Deficiencies in Interpretation and Application of Pretreatment Standards: No

Inadequacy of Sampling and Inspections: No

Adequacy of Pretreatment Resources: Yes

Annual Frequency

Annual Frequency of Influent Toxicant Sampling: _____

Annual Frequency of Effluent Toxicant Sampling: _____

Annual Frequency of Sludge Toxicant Sampling: _____