



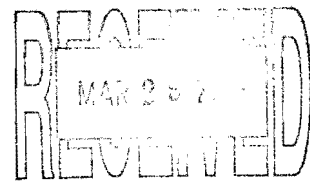
Little Rock Wastewater

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ENVIRONMENTAL ASSESSMENT DIVISION

2012 ANNUAL PRETREATMENT PROGRAM REPORT

Submitted March 29, 2013



March 29, 2013

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

RE: 2012 Annual Pretreatment Program Report
NPDES Permit AR0021806 – Adams Field WWTP
NPDES Permit AR0040177 – Fourche Creek WWTP
NPDES Permit AR0050849 – Little Maumelle WWTP

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 2012, LRW continued activities pursuant to maintaining compliance with the General Pretreatment Regulations (40 CFR 403). Enclosed with this letter is the 2012 Annual Pretreatment Program Report.

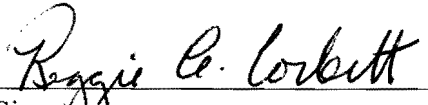
Contained within Section III of the enclosed report is a summary of the number of industrial users that have been in significant violation or significant noncompliance since 1986. During 2012, no industry was in significant noncompliance with applicable pretreatment requirements according to criteria published in 40 CFR 403 and EPA, Region VI, policy on quarterly reviews of industrial user compliance.

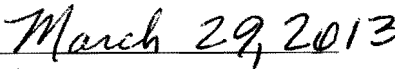
Also included in this report is an Updated Industrial User List and LRW's Pretreatment Program Status Report outlining compliance, sampling, and inspection information. The following abbreviations are used in the Pretreatment Program Status Report: C = compliance, NC = noncompliance, SNC = significant noncompliance, RD = received, and NR = not required. LRW is also enclosing information on sampling results for the three (3) Wastewater Treatment Plants influent and effluent and biosolids 2012 sampling results 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


Signature


Date

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cc: Stanley Suel, Director of Environmental Assessment
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Jeff Davis, Pretreatment Program Supervisor
Susan Samples Ledbetter, Laboratory Supervisor
Walter Collins, Fourche Creek WWTP Superintendent
Eric Wassell, Little Maumelle WWTP Superintendent
Mikel Murders, Plan Review/Environmental Sampling Supervisor



Little Rock
Wastewater

**ENVIRONMENTAL
ASSESSMENT DIVISION**

**2012 ANNUAL
PRETREATMENT
PROGRAM REPORT**

Submitted March 29, 2013

**LITTLE ROCK WASTEWATER
2012 ANNUAL PRETREATMENT PROGRAM REPORT**

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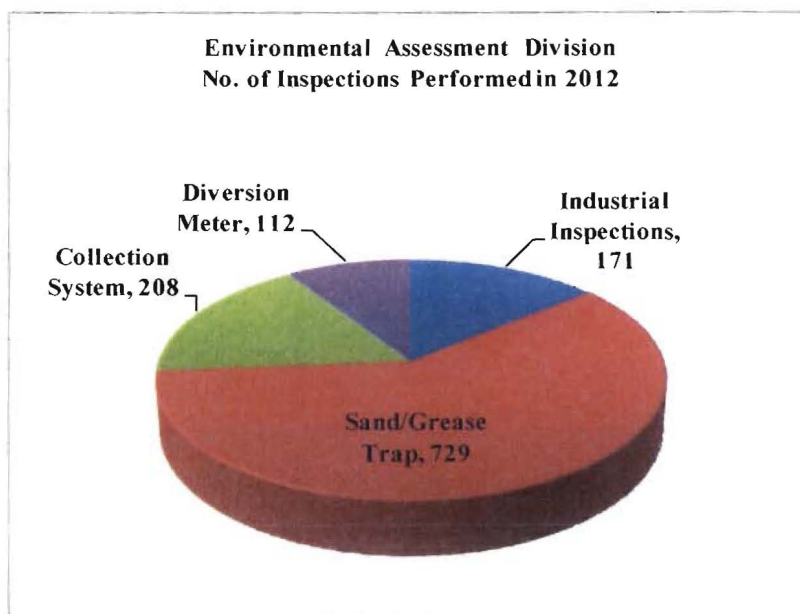
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION**

**Approved Industrial Pretreatment Program
2012 Accomplishments**

The Environmental Assessment Division (EAD) Approved Industrial Pretreatment Program (IPP) carries out the requirements of Code of Federal Regulations Title 40 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, 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 Users (SIU), held active Industrial Wastewater Discharge Permits (Permits). Fifteen (15) of the thirty-six (36) are categorical, subject to federal pretreatment standards. Permits issued by EAD IPP provide a control mechanism for sampling, inspecting, and tracking compliance with applicable Federal, State, and Local regulations. Of the fifty-five (55) industries, there were nineteen (19) non-SIU facilities that held Permits or short term authorizations for controlling and monitoring discharge requirements.

A total of 1,012 inspections and investigations were conducted at industrial and commercial facilities. For industries subject to permit requirements, 171 inspections were conducted to evaluate compliance with the EAD IPP. EAD also conducted 729 interceptor/trap program inspections at commercial facilities as measures to control discharge of prohibited solids and O&G. EAD conducted 208 collection system new connections and investigations. Sand/Grease Trap Inspections identified 106 items requiring corrective action. EAD also conducted 112 inspections of diversion meters, used for non-sewered flow where users are allowed credit on sewer charges.



EAD was successful with addressing industry non-compliance and requiring necessary corrective measures to obtain a return to compliance. During 2012, eight (8) 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 Wastewater Treatment Plant (AF-WWTP), Fourche Creek (FC-WWTP), and Little Maumelle (LM-WWTP). No lethal or sub-lethal toxic effects were observed for either AF-WWTP, FC-WWTP or LM-WWTP final effluent at any required NPDES effluent test dilutions.

Extra strength surcharges for BOD/COD, TSS, O&G, and pH billed during the year totaled approximately \$1,096,930. The City of Little Rock Sanitary Sewer Committee's adoption of the Consolidated Fee Schedule allowed EAD to administer IPP fees totaling \$97,356 (permits/inspection fees, special discharge fees, Trap Control Program). Additionally, Landfill Leachate billing was \$116,570 and hauled domestic liquid waste revenues totaled \$10,960 (Funding/Expenditure Report - end of this section).

During 2012, Little Rock Wastewater (LRW) implemented and accomplished several pretreatment program activities:

Program Development

- EAD IPP personnel moved their office locations from AF-WWTP to the LRW Clearwater Administration Building and have been trained to assist with other service line inspection duties.
- Arkansas Department of Environmental Quality (ADEQ) conducted Pretreatment Compliance Inspections with visits to Interstate Highway Sign and Odom's Tennessee Pride on May 4, 2012. ADEQ Inspectors stated that there were no problems found in review of the LRW IPP.
- Allen Gilliam, ADEQ Pretreatment Coordinator, conducted an audit of LRW's IPP on November 13-15, 2012. The audit consisted of file review and site inspections of five industries currently permitted by LRW. Industries inspected include two (2) Categorical (Ace Powder Coating and Welspun Tubular) and three (3) Significant (City of Little Rock Landfill, Porocel Corporation, and Sage V Foods) industries. The only required action in the Pretreatment Program Audit Report was to ensure adequate signage is in place directing hauled liquid waste (HLW) pumpers to the POTW designated disposal point.
- To support LRW's Sewer Rate Ordinance revision for City of Little Rock Board approval, IPP Staff conducted internet research for information on cities of similar size to Little Rock regarding rate schedules and extra strength surcharge billing practices. IPP Staff also compiled data and comparison charts to show effects of rate ordinance revisions on LRW customers. This information was provided to LRW

management for presentation before the City Board. Sewer Rate Ordinance 20,594 was passed by the City Board of Directors on June 12, 2102.

- With City Board approval of Rate Ordinance 20,594, minor modifications to the IPP procedures manual, revising surcharge program procedures, were submitted to ADEQ and approved. New copies of the Approved Pretreatment Program Manual were prepared with ADEQ approved revisions to Sections 2 and 8 to reflect new Ordinance No. 20,594 extra strength surcharge procedures.
- A Rate Ordinance notification letter was mailed to all Permitted Industrial Users. Industrial User (IU) Protocols were revised to show LRW monitoring changes related to surcharge requirements of the new Sewer Rate Ordinance No. 20,594. EAD staff established revisions to the Diversion Meter Installation Instructions as it pertains to the changes in City of Little Rock Rate Ordinance 20,594.
- The AF-WWTP NPDES Permit renewal became effective August 1, 2012. The Permit required, within 60 days, written certification stating either Technically Based Local Limits (TBLL's) are adequate or they will be revised within 12 months. Long term trend charts were updated and Oswald Engineering was contracted to conduct an evaluation of LRW's current TBLL's. Oswald Engineering stated changes in factors that influence Water Quality Standards (WQS) were not substantial and prepared the TBLL certification letter to ADEQ. The certification was submitted; stating the current TBLL's are adequate.
- Allen Gilliam, ADEQ Pretreatment Coordinator, provided EPA's guidance for an industry survey master list to LRW. LRW uses a database to log all IU survey data. This database provides an ongoing master list of all IU survey information. EAD reviewed EPA's guidance documents and reconfirmed that proper details of the annual IU surveys are logged.
- Pretreatment Program Staff Training:
 1. The IPP Staff attended the 81st Annual AWW & WEA Conference in Hot Springs; April 29, - May 1, 2012. Cornelius Jones, IPP Inspector, presented an Industrial User Survey Presentation. Tony Roll, IPP Inspector, volunteered on the Program Committee.
 2. The IPP Inspectors attended the Resource Conservation Recovery Act Training class on August 22, 2012.
 3. The IPP Inspectors attended Personal Protective Equipment and Trenching, Shoring/Heavy Equipment and Hand Tools safety meeting on September 18, 2012.
 4. IPP Staff attended The Pretreatment 101 Series: Industrial User Permitting Webcast on September 20, 2012.
 5. The IPP Inspectors attended The Pretreatment Webcast on POTW Pretreatment Considerations and Permitting Programs for Hauled Waste on October 24, 2012.
 6. IPP Staff trained on Developer Funded Project inspections and service line inspections.
 7. IPP Inspectors were trained on the Engineering Permits Desk and covered the desk on needed occasions.
 8. IPP Staff conducted a review of Attachment #1; EPA Document Applicability of Categorical Pretreatment Standards to "Zero-Discharge" Industrial Users of

- Appendix E Guidance on the BMR and Requirements. The purpose was to affirm the Inspector's understanding of EPA's position on monitoring waivers and permit recommendations for this type of IU group.
9. Cornelius Jones, IPP Inspector, graduated from the Leadership Solution II class on May 16, 2012. This is a Workforce Planning Process that was developed by LRW to allow employees to engage in training that strengthens the workforce.
 10. Cornelius Jones, IPP Inspector, attended the Arkansas Department of Health Plumbing and Natural Gas Training School that was held at Arkansas Rural Water Association, Lonoke Arkansas on August 16-17, 2012, and obtained a Plumber Inspector License.
- EAD assisted LRW Maintenance with outreach for the Private System Cleaning Program. This program is to aid LRW Maintenance with reducing problems from private line cleaning by requiring debris removal to prevent downstream blockages. IPP Staff visited Managers of targeted multi-dwelling complexes (apartments) to explain the requirements and procedures for Private System Cleaning Permits. Several Permits have been issued since completing the outreach.
 - IPP staff provided annual biosolids lagoon sample collection, delivery and custody records. Biosolids disposed in 2012 were Class A Exceptional Quality. (see Section VIII).
 - The 2011 Annual Pretreatment Program Report was delivered to ADEQ on March 30, 2012, as required by the NPDES Permit.
 - Septic Tank Pumpers have increased HLW loads to AF-WWTP. This increase occurred when Benton discontinued accepting HLW. LRW HLW Disposal Guidelines are issued to Pumpers that are approved by EAD.

Industrial Relations

- In 2012, IPP mailed out forty three (43) Pretreatment Excellence Certificates Awards to those industries with perfect compliance for 2011.
- Special permitting in 2012:
 1. **Ace Powder Coating**, a small commercial coating facility at 5207 Scott Hamilton applied for a "Zero" Industrial Wastewater Discharge Permit and falls under the 40 CFR 433.17 New Source Metals Finishing Point Source Category. Categorical designation is based on use of a Dry Steam Phosphating Unit to clean and phosphate parts prior to painting. Inspections confirmed zero discharge. The Permit was issued.
 2. **Coca Cola Refreshments USA, Inc** reported plans to close down production and become a distribution-only facility. Production stopped in March 2012. The Permit remained effective for the remainder of the year during production equipment cleaning, sanitizing, and removal. Minor renovations continued to change the facility to a distribution hub for Arkansas.
 3. **Welspun Tubular** provided construction plans for a small diameter (6" to 20") pipe mill to be located at 8523 Frazier Pike (formerly the location of Wheatland Tube). The mill will use a phosphate coating process similar to the current

Welspun at 9301 Frazier Pike. The process wastewater is subject to 40 CFR 433 Metal Finishing Pretreatment Standards.

4. LRW issued a Industrial Wastewater "Zero" Discharge Permit to **Accessories Marketing** 7511 Scott Hamilton (Slime Tire Sealant). Based on Standard Industrial Classification (SIC) the production process is subject to 40 CFR 414 Organic Chemicals Subpart K pretreatment standards. The IU is permitted as a "zero" discharge categorical. The baseline monitoring report for the processing wastewater showed pollutant levels above Local Limits and 40 CFR 414 Organic Chemicals Subpart K pretreatment standards. Process wastewater is stored in totes for offsite disposal or recycled back to mixing tanks.
 5. **Odom's Tennessee Pride Sausage** notified LRW of pending plant closure by April 2013. ConAgra purchased the facility and decided to consolidate operations to another state. The Permit will remain effective through the closure period.
 6. **Ozark Ridge Landfill** Permit expired November 30, 2012. Waste Management decided not to return the application and not maintain LRW as a secondary disposal site for leachate. A permit closure letter was sent to Waste Management Ozark Ridge Landfill.
 7. A Restricted Short Term Authorization was issued to **Arkansas Portable Toilets** for Riverfest activities May 25-28, 2012.
- For 2012 no industry was in Significant Noncompliance (SNC) as defined by 40 CFR 403. 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		Test Parameter	Reported Value	Violation of Max. Limit	
		LRW	Self			Daily	Monthly
* Interstate Sign Ways	1/06/2012	X		pH	2.94 S.U.	5.0-12.0 S.U.	
X Odom's Tennessee Pride	2/01/2012	X		pH	4.48 S.U.	5.0 -12.0 S.U.	
X Odom's Tennessee Pride	2/02/2012	X		pH	4.77 S.U.	5.0 -12.0 S.U.	
+ Sage V Foods	3/05/2012	X		Temp	52° C	43.3° C	
Mountain Pure	5/22/2012	X		pH	4.27 S.U.	5.0 -12.0 S.U.	
* Turner Coleman Dairy	7/16/2012	X		pH	12.73 S.U.	5.0 -12.0 S.U.	
+ Sage V Foods	7/26/2012	X		pH	4.80 S.U.	5.0 -12.0 S.U.	
Mountain Pure	11/27/2012	X		pH	4.43 S.U.	5.0 -12.0 S.U.	

1. January 6, 2012, EAD conducted a Demand Inspection at **Interstate Sign Ways**. A pH violation had occurred when the process effluent pH measured 2.94 S.U. The area of concern was the panel cleaning rinse tank overflow to the sanitary sewer system. Interstate Sign Ways agreed to discontinue discharge and check the tank for chromium due to possible chromic acid contamination. EAD's composite sample and the process tank grab showed no chromium contamination, indicating that the low pH was due to an oxidizer contamination. The pH was

- adjusted to 8.14 S.U. and the IU commenced discharge of the tank per LRW approval.
2. **Odom's Tennessee Pride Sausage** had two pH violations which occurred on February 1, 2012 (4.48 S.U.) and February 2, 2012 (4.77 S.U.). A demand inspection was conducted to determine the cause. The IU responded, stating that the automatic metering system which adds caustic to the pretreatment system to adjust the pH was getting clogged and malfunctioning. Odom's ordered a new tote of caustic and recalibrated the metering system to remedy the pH problem.
 3. A temperature violation at **Sage V Foods** occurred on March 5, 2012. The high strength waste line discharge point exceeded temperature limits stated in the Special Industrial Sewer Use Agreement. The reading was 52° Celsius (126° Fahrenheit) and the limit stated in the agreement is 43.3° Celsius (110° Fahrenheit). Additional testing showed returned to compliance.
 4. A pH violation occurred at **Mountain Pure Holdings** on May 22, 2012, with a reading of 4.27 S.U. The LRW Sampling Technician advised that the sample point smelled of juice and that the sample was slightly yellow in color. The Mountain Pure Superintendent was notified and began to investigate the issue. The facility was running both the water bottling line and the juice line at the time of the violation. Measurements by Mountain Pure Staff using a pen-style pH meter were conducted approximately one hour prior to the violation and approximately one half hour after the LRW measurement. In both instances the discharge from the neutralization silo was 10 pH. Two (2) return to compliance pH testing events were completed by LRW.
 5. **Turner Coleman Dairy** had a pH violation on July 16, 2012, with a reading of 12.73 S.U. at the east sample point outfall. Contact was made with the IU Plant Manager. After investigating the violation, the IU Plant Manager reported the cause and corrective action. The small case washer chemical reservoir was half full of spent soap and improperly discharged without the equalization step stated in procedures. The IU advised that the new employee has been properly retrained on the maintenance of the case washer. LRW sampling showed return to compliance.
 6. A pH violation at the total point sampling location for **Sage V Foods** (LRW manhole 20M-004) occurred on July 26, 2012, with a result of 4.80 S.U. The process cleaning line outfall that discharges to the total point tested at 5.20 S.U. Contact was made with the Maintenance Manager to advise of the violation. The IU stated waste remaining in the pipe during a line change may have deteriorated in pH causing the momentary pH drop. The IU provided a (scada) pH trend showing that the drop below 5.0 S.U. was a brief occurrence. Sampling showed a return to compliance.
 7. A pH violation at **Mountain Pure Holdings, LLC** occurred on November 27, 2012, with a result of 4.43 S.U. A juice like odor was noted at the outfall. Contact was made to notify the IU of the violation. The IU internal investigation found that an employee working in the fruit juice room had made an error during the production run. The employee started a juice run and accidentally let a small load of mix flush down the drain at the time the mixing tanks were being flushed and sent to the equalization silo. An estimation of 20 – 30 gallons of mix made it

to the sewer prior to neutralization. The employee was provided a copy of the procedures to follow when mixing fruit juices and told to follow the procedures. LRW sampling showed a return to compliance.

Inspection, IU Surveys, and Investigations

- Permitted facility investigations and corrective actions for compliance:
 1. **Ameripride Linen Service** contacted LRW concerning their increased sewer bill for the months of August and September 2012. Due to failure of the sewer meter, billing was based on Central Arkansas Water consumption records for two months pending repairs to the sewer meter. Ameripride Linen Service has since completed repairs to the sewer meter and returned to billing based on sewer meter readings beginning October 2012 billing.
 2. A site visit was conducted at **Ameripride Linen Service** to inspect the installation of the new sewer meter. The new meter's outlet pipe needed to be altered to reduce pressure in the service line. This pressure caused a cleanout upstream of the meter to pop off causing the laundry's industrial wastewater to overflow to the storm drain. The overflow was reported to City of Little Rock Public Works. Corrective actions to repair the cleanout and alter the meter outlet piping have been completed.
 3. **BFI Landfill** sampling report did not show compliance for all parameters required by the Permit. Contact was made requiring corrected data. Retest data reviewed by LRW revealed that the private laboratory conducting the testing had allowed their ADEQ certification to lapse. LRW informed BFI the Permit conditions require ADEQ certified laboratories, and that corrective actions were required. A conference call was conducted with BFI Landfill and PMI (Consultant Firm) to discuss problems with sampling events and reported data. BFI has implemented corrective measures to resolve reporting issues.
 4. **Turner Coleman Dairy** notified LRW at 2:00 a.m. on February 24, 2012, that an inadvertent mixing of a sweet tea blend and apple juice occurred during a test run of the new Tea Room. The IU requested to discharge the tank. The IPP Supervisor informed Coleman Dairy at 2:30 a.m. that no discharge shall occur until the next morning after inspection and approval was received by the FC-WWTP Superintendent. An EAD inspection at 7:00 a.m. revealed the volume to be 60% sweet tea 40% apple juice and confirmed at 3,000 gallons based on the gauge on the tank. A sample of the tea/juice mixture was obtained for COD testing. Per approval by the FC-WWTP Superintendent, Coleman Dairy was advised to drain the mix slowly, discharging through the IU EQ pretreatment tank over a 12-hour period to offset concerns of high sugar.
 5. **Turner Coleman Dairy** began Tea Room production starting March 29, 2012. The process consists of 702 tea bags lowered into a tank and water added. The tea bags are removed and sugar is added to the product before draining the tea to storage tanks in preparation for bottling. A new production diversion meter was installed for this process.

6. **Turner Coleman Dairy** stacked pallets of milk crates so high and close to the sample point for the west outfall that its created a safety hazard for LRW sampling crews. Coleman Dairy removed the crates to provide a safe area to work. These extra milk crates are not needed in the shipment rotation when school is out for summer.
7. In February 2012 LRW Maintenance notified IPP Staff of oil in the Otter Creek Pump Station. IPP Inspectors responded to investigate and locate sources of prohibited material. The presence of oil directed inspectors to **Clark Machinery**; the IU had recently changed out filters used in the pretreatment system and oil-absorbent socks used in a private manhole. Clark Machinery agreed to properly maintain the pretreatment system and was advised that LRW Maintenance would continue routine inspections of Otter Creek Pump Station.
8. **University of Arkansas Medical School (UAMS)** site inspection revealed operation of a cyclotron in the PETNET facility. The facility was inspected for applicability to 40 CFR 439 Pharmaceutical Manufacturing Point Source. 3D Imaging, the Owner and third party operator of the cyclotron, is licensed to produce pharmaceuticals products. The standard industrial classification lists the facility as research. An inspection concluded that all equipment, including the cyclotron used to produce Technetium 99, is in operation for research. No pretreatment standards are listed under the 40 CFR 439 Subpart E - Research. Wastewater generation is minimal in bench top vials and disposed of in a waste container for radioactive material. UAMS meets the requirements of Permit S-109.
9. In June 2012 the FC-WWTP Superintendent inquired with EAD about changes at **Sage V Foods** to account for low flows on weekdays. FC-WWTP has been receiving low pH readings from the IU high strength wastewater line (HSW) immediately after the pumps at the HSW lift station would kick on. Sage V Foods pH value and operation schedule was requested. The IU Operations Manager advised that half of the plant was shut down for floor coating and curing. Also notification procedures to LRW were reviewed with the IU Staff. A site inspection was conducted to verify that discharge of production waste was within permit limits for pH and found to be well within range. A pH log sheet was provided showing no readings below 5 S.U. Investigation revealed that the HSW is going septic when flow is not adequate. When pumps kicked on, the septic wastewater was pushed to FC-WWTP.
10. In October 2012 the monthly sewer meter data report from **Sage V Foods** revealed a possible error in meter reading and/or calibrations based on calculated ratios that were maintained by the IPP Inspector. Contact was made with Sage V Foods to check the sewer meters. An investigation revealed that the meters were out of calibration. The sewer meters were recalibrated.
11. During routine monitoring in December 2012, LRW Sampling Technicians noticed that the HSW flow was bypassing the parshall flume at **Sage V Foods**. The IU advised that the bypass was necessary due to maintenance on clogged heat exchangers. IPP Staff required the IU to route the flow through the parshall flume so that the sewer meter would read all flow entering the HSW while work continued on the heat exchangers. Work was completed and the bypass stopped.

The IU provided written corrective actions to reduce, eliminate, and prevent reoccurrence of bypass.

12. February 2012 LRW Maintenance notified Pretreatment Staff of a "green color" to the waste in the wet well at Heinke Road Pump Station. Inspectors arrived at the pump station and noted a "green" discoloration and began walking the sewer service line upstream to locate the source of the waste. Numerous sewer manholes were viewed to eliminate source from neighborhoods in the area. It was determined that the waste came from somewhere along Sardis Road, however, no further "green" samples could be obtained from sources further upstream. Two commercial facilities were noted upstream as possible contributors: Horton and Horton Printing and Sullivan Automotive. Inspections did not reveal a source of concern. IU Survey forms were delivered and information was logged into LINKO. A Follow-Up inspection of Heinke Road Pump Station the following business day revealed no discoloration to the wastewater.
 13. On March 9, 2012, EAD conducted an investigation at 5203 Wycliffe Drive. The investigation was conducted as maintenance crews discovered diesel fuel or oil discharged into the sanitary sewer. The resident revealed that he did spill 1/2 to 1 gallon of diesel fuel while performing maintenance on one of his trucks. He was informed on the hazards of such discharges that enter the sewer system.
 14. A spill/slug investigation was conducted on June 14, 2012, on a reported slug loading entering LM-WWTP headworks. It was determined the slug was caused by an inactive force main containing influent that had gone septic. When activated, the force main allowed a black septic flow into the plant. The loading had a pH of 5.21 S.U. at 12:35 p.m. The pH remained low for a duration of approximately 40 minutes then rose to above 6.00 S.U.
- 2012 Industrial User Survey was conducted by LRW IPP Staff. Possible candidates were screened from the following sources:
 1. IPP Staff obtained the following lists: 2011 Little Rock Business License, Central Arkansas Directory of Manufactures and Central Arkansas Water annual printout of users who purchased over 730 hundred cubic feet of water.
 2. IPP Staff received a listing of commercial account in multijurisdictional areas. These facilities were reviewed during the 2012 IU Survey.
 3. Arkansas Economic Development database of Manufactures in the City of Little Rock was reviewed for the 2012 IU Survey list.
 4. Reviews were conducted of the Little Rock Chamber of Commerce membership list for the 2012 IU Survey List.
 5. The ADEQ Hazardous Waste Generators List was reviewed to make sure listings are properly surveyed by EAD.
 6. IPP Staff reviewed and discussed a Consent Order issued by ADEQ to a Printing Company in Arkansas to properly evaluate local companies printing practices. Other internet information was obtained to aid evaluation of this industry sector.
 - Forty two (42) Survey Forms were mailed out to facilities identified by utilizing the listed sources in the Approved Pretreatment Manual for annual survey requirements of 40 CFR 403. This process provides LRW an avenue to locate unknown facilities

that may be subject to pretreatment program requirements. When needed, inspections were conducted as noted below for the 2012 screening processes.

1. **AD Craft of Arkansas, Inc.** specializes in custom screen printed promotional products. Excess inks are wiped up and disposed of in the trash. Chemicals used to clean screens is in small quantities and used as sparingly as possible. The facility uses approximately 175 gallons of water each day. No pretreatment concerns were noted.
2. **Allegra Print & Imaging** produces marketing materials utilizing graphic design with advanced printing services and mailing capabilities. No pretreatment concerns were noted.
3. **Bray Sheet Metal** custom builds parts for automobiles, air handling duct work and specialized metal items for commercial customers. Processes performed are shearing, welding, and light painting. There is no discharge of process water from this facility.
4. **Comet Cleaners** is a hazardous waste generator, using tetrachloroethylene (trade name: Perc) as the dry-cleaning agent. No floor drains are located near the machine using Perc or around the hazardous waste storage. Location generates approximately 10-gallons of hazardous waste a month, which is picked up by Safety Kleen.
5. **Essick Air Products** manufactures Air Humidifiers of various sizes and models. These humidifiers are manufactured utilizing a plastic molding process and assembled on site. Processes conducted include plastic molding, painting or staining, and filter manufacturing. No process wastewater is discharged to the sanitary sewer.
6. **Geo Specialty Chemicals** refines Bauxite and Kaolin to make usable products such as Alum and Polymers. Geo Specialty uses water for cooling of the tumblers and is thereby evaporated or recycled to a holding tank. No process water is discharged to LRW.
7. **Gesco** was once permitted as an Non Significant IU and leases this facility from the City of Little Rock. In 2005 the permit was closed due to Gesco no longer discharging process wastewater to the sanitary sewer. The downstream sewer manhole 9J-035 was inspected. A sample of the flow was collected and observed. The flow appears to be domestic waste only. An inspection at Gesco inspection was conducted. Gesco may request a Permit in the future to batch discharge from the barrel recycling wastewater storage tank when full. If a permit application is presented, LRW will require update testing of current wastewater contained on site. Past correspondence will be reviewed to address non compliance concerns with past wastewater discharges.
8. **Golden Eagles of Arkansas** is a storage and distribution hub for Anheuser Busch in the Little Rock area. The facility has three sand/oil interceptors (exterior wash and two in drive-in bay) and conducts vehicle maintenance (no floor drains in this work area).
9. **LM Wind Power** production has decreased. No process wastewater of concern is discharged to the sanitary sewer.
10. **Momchilov's Camera Works** principle operation is taking photos and processing them in-house digitally. No process wastewater.

11. **National Custom Hollow Metal Doors** manufactures stainless steel custom metal doors utilizing processes such as pressing, cutting, forming, welding and painting. This facility does not discharge prohibited pollutants to the sanitary sewer. An inspection of LRW manholes showed that there was storm water infiltration and this was reported to LRW Maintenance.
12. **Powder Coating Professionals** is a powder coating paint shop with no access to the collection system other than domestic. Metal preparation is done by hand without any water.
13. **Pratt Industries** was inspected in order to assess current manufacturing processes and possible discharges. Pratt Industries is currently a distribution warehouse only with no printing operations.
14. **RiverCity Print & Imaging** contacted LRW and requested authorization to discharge spent fountain solution to the sanitary sewer. A site visit was conducted to inspect the solution usage and wastewater quantity. The facility was authorized to discharge with neutralization.
15. **Schickel's Cleaners** conducts dry cleaning utilizing two types of dry cleaning chemical processes. The Perc process utilizes the chemical-tetrachloroethylene in the cleaning process. The other dry cleaning process utilizes a petroleum based product called DF 2000 (aliphatic hydrocarbon). Both chemical's sludge and waste chemicals are picked up by Safety Kleen. No pretreatment concerns were noted.
16. **Speastech** has been in business for 35 years with 16 years at the current location. The business manufactures an electronic picking system used by automakers to keep track of specific parts that are used in the manufacturing process. SpeasTech assembles the electronic circuits boards only and do not manufacture the boards itself. SpeasTech does not generate any process wastewater. IPP Staff reviewed 40 CFR 469 Electrical and Electronic Components Point Source Category and 40 CFR 413 Electroplating Point Source Category applicability. There is no wastewater discharge of concern nor applicability to pretreatment standards.
17. **Standard Aero** past processes of parts washing, testing, repair, and assembly are no longer conducted. In 2010 Standard Aero became a mobilized service where repairs are made at the location of the plane. The parts wash and non-destructive testing tanks were empty and not in use when inspected. No pretreatment concerns were noted.
18. **Windsor Door LLC**. conducts processes to manufacture garage doors. Processes performed are stamping, sheet metal roll forming, shearing, extrusion, cutting, and grinding with no wastewater discharge to the sanitary sewer. The facility was determined to not have applicability to 40 CFR 428.50 Subpart E - Small Size General Molded, Extruded, and Fabricated Rubber Plants Subcategory because the extrusion process material was a vinyl plastic material; not rubber. 40 CFR 463 Plastic Molding and Forming Point Source Category was reviewed and no pretreatment standards exists.

- Grease related Sanitary Sewer Overflows (SSO) Collection System Investigations

1. LRW Manholes (6R013 to 6R014) 5104 Baseline Road - The area upstream of the SSO consisted of three (3) apartment complexes and residential homes.
2. LRW Manholes (-11-A041 to -11-A004) 18201 Cantrell Road - The upstream area contained two (2) FOG facilities. The Pizza Joint and Casa Manana. Both facilities were inspected and the grease interceptors were not in need of cleaning.
3. IPP Staff responded to a customer complaint of odor at the Broadway Save-A-Lot complex. A two-compartment device beneath the complex full of liquid was found to be the source. Save-A-Lot, Sim's Barbeque, and Hair Plus Beauty Supplies are tenants of the complex. Hair Plus Beauty Supplies was required to repair/replace domestic plumbing and connect to sanitary sewer. Floor drains in an old foundation left open to storm water infiltration were sealed. Plumbing to the tank causing the odor was terminated.
4. LRW Manholes (4K070 to 4K069) 14 Fairmont Street - The area upstream of SSO was a combination of commercial and residential customers. There is a church that discharges into manhole 4K069.
5. LRW Manholes (3I067 to 3I066) 1500 Caulden Avenue. Area upstream of the SSO was Parham Pointe Retirement Apartments.
6. LRW Manhole (2G801 to 2G011) 7915 West Markham Street - Area upstream of the SSO was a combination of commercial and residential. The commercial facility was Brady Elementary. An inspection revealed the interceptor was not in need of cleaning.
7. LRW Manhole (OJ077 to OJ076) 2310 Romine Road - Area upstream of the SSO was residential only.
8. LRW Manhole (15M039 to 15M038) 2 Granite Mountain Circle - Area upstream of the SSO was an apartment complex owned by the Little Rock Housing Authority. Facility Maintenance was made aware of grease causing the overflow and information was given to them highlighting the Can the Grease Program.
9. LRW Manholes (10J087 to 10J084) 2206 South Park Street - Manholes located in residential area.
10. Sewer Manholes (4J024 to 4J023) 39 Glenmere Drive - There was a grease blockage found in the line segment. The SSO occurred at a residence's home.
11. LRW Manhole (4G088 to 400) South University Avenue - An active overflow was noted by EAD and reported to Maintenance. As part of the investigation into the overflow, Cheddars' Restaurant was noted nearby as a possible contributor. The grease interceptor was checked and found to be in need of cleaning. A verbal requirement to have the interceptor cleaned was made. Dispatch advised that LRW crews noted construction debris in the line had caused the overflow.
12. LRW Manhole (4G-104 and 4G-116) 400 South University - An investigation was conducted of sewer manholes upstream of 4G116 in the construction area around 400 South University (new Target Shopping Center). Upstream Sewer Manhole 4G104 was found containing large rock in the trough and was reported to the Collection System Maintenance. Water was discharging into sewer manhole 4G859 from an active construction site. The job foreman stated that they were cleaning a sewer line recently repaired. Information was forwarded to the Project Engineer Supervisor for follow-up with the Development Inspector.

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 729 inspections of some type of interceptor or trap. Of those inspections 15% (106) corrective action items were required to clean or repair the interceptor or trap.

A total of 111 Construction Plans were reviewed with fifty-six (56) Grease or Sand Interceptor Sizing Approvals Forms issued in 2012. This is a decrease of 22% over 2011 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, 2012 through December 31, 2012		

II. Trap Control Compliance Monitoring		
1.	Number of Trap Inspections Performed	729
2.	Number of Traps Requiring Cleaning	77
3.	Number of Traps Requiring Cleanout Replacement or Repair	28
4.	Number of Traps Requiring Repair	1
5.	Number of Facilities Requiring Trap Installation	0

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)	\$2,700

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

	2012 Actual	2013 Estimated
Funding		
Surcharge Program	\$1,069,930	\$1,091,329
Landfill Leachate Program	\$116,570	\$118,901
Permitted Industrial Wastewater Discharge Fees	\$70,225	\$71,630
Trap/Interceptor Control Program Fees	\$2,700	\$2,754
Domestic Septage Waste Hauler Fees	\$4,175	\$4,259
Landfill Permit Fees	\$2,550	\$2,601
Diversion / Sewer Meter Fees	\$16,931	\$17,270
HLW/Special Discharge-Restricted Short Term Fees	\$11,735	\$11,970
Total Funding	\$1,294,816	\$1,320,712
O&M Expenditures		
Salary		
Employee Salaries	\$515,535	\$513,595
Employee Benefits	\$182,073	\$317,849
Supplies/Maintenance		
Supplies/Equipment Maintenance	\$23,554	\$37,908
Vehicle Maintenance	\$12,057	\$13,750
Other		
Auto Liability	\$1,498	\$1,502
Training and Development	\$7,098	\$2,675
Contract Services	\$24,790	\$25,748
Telephone	\$3,255	\$4,194
Total O&M Expenditures	\$769,860	\$917,221
Capital Expenditures		
Total Capital Expenditures	\$0	\$0
Total Expenditures	\$769,860	\$917,221

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, 2012 through December 31, 2012		
Total Number of Categorical IUs	15		
Total Number of Significant Non-categorical IUs	21		

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	0 / 0	0 / 0
5	No. of SIUs in Significant Noncompliance/Total No. of SIUs	0 / 15	0 / 21
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	<u>21</u>	<u>39</u>
3	No. of Sampling Visits Conducted	<u>59</u>	<u>357</u>
4	No. of Facilities Inspected (non-sampling)	<u>15</u>	<u>21</u>
5	No. of Facilities Sampled	<u>8*</u>	<u>21</u>

IV. Enforcement Actions

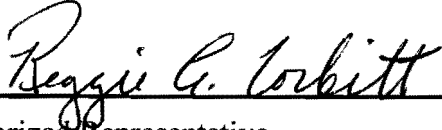
		Significant Industrial Users	
		Categorical	Noncategorical
1	No. of Compliance Schedules Issued/No. of Schedules Required	<u>0 / 0</u>	<u>0 / 0</u>
2	No. of Notices of Violations issued to SIUs	<u>0</u>	<u>0</u>
3	No. of Administrative Orders Issued to SIUs	<u>0</u>	<u>0</u>
4	No. of Civil Suits Filed	<u>0</u>	<u>0</u>
5	No. of Criminal Suits Filed	<u>0</u>	<u>0</u>
6	No. of Significant Violators (attach newspaper publication)	<u>0</u>	<u>0</u>
7	Amount of Penalties Collected (total dollars/IUs assessed) **	<u>\$181/1</u>	<u>\$1,046/3</u>
8	Other Actions (sewer bans, etc.)	<u>0</u>	<u>0</u>

* Categorical IU's: Three (3) sampled for regulated wastewater discharges: CertainTeed Corp., Interstate Highway Sign, and Welspun Tubular. Five (5) sampled for unregulated wastewater only: Cameron Valve, Central Jet Flying Service, Dassault Falcon Jet, Rheim Chemie Little Rock, and St. Vincent Hospital. Seven (7) domestic wastewater discharge only - not sampled: Accessories Marketing, Ace Powder Coating, Arkansas Painting and Specialty, Hawker Beechcraft, Hillcrest Camshaft, PPG Industries, and Progress Rail Service.

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

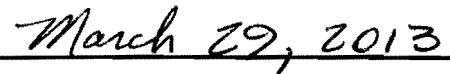
The following certification must be signed in order for this form to be considered complete:

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 2012**

Year	Number of IUs In Significant Violation or Significant Noncompliance
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
2012	0 – Significant Noncompliance

LITTLE ROCK WASTEWATER 2012 PRETREATMENT PROGRAM STATUS REPORT

Facility Name	SIC	NAICS	Categorical Determination	Control Document		New User	Times Inspected	Times Sampled	Compliance Status				
				Last Action	Y/N				Reports				Effluent Limits
									BMR	90 Day Compliance	Semi-Annual	Self Monitoring	
Acc Powder Coating	2479	33281	40 CFR 433	ISSUED 11/01/2012	Y	Y	2	0	N/A	N/A	NR	NR	NO 433 DISCHARGE
Arkansas Painting and Specialties	3429	332510	40 CFR 433	RENEWED 01/01/2012	Y	N	1	0	RD 2/10/06	N/A	RD	RD	C-NO DISCHARGE
Accessories Marketing	2869	325199	40 CFR 414	ISSUED 4/01/2012	Y	Y	3	0	RD 3/12/12	N/A	NR	NR	NO 414 DISCHARGE
Cameron Valve	3544	333511	40 CFR 433	RENEWED 10/01/2012	Y	N	1	10	N/A	N/A	NR	NR	NO 433 DISCHARGE
Central Flying Service	4581	488190	40 CFR 433	RENEWED 9/01/2012	Y	N	1	4	N/A	N/A	NR	NR	NO 433 DISCHARGE
CertainTeed Corp.	2952	324122	40 CFR 443	RENEWED 5/01/2012	Y	N	1	2	RD 4/14/00	N/A	RD	RD	ie DISCHARGE
Dassault Falcon Jet Corp.	3728	336413	40 CFR 433	RENEWED 12/01/2012	Y	N	1	4	RD 9/9/90	N/A	NR	NR	NO 433 DISCHARGE
Hawker Beechcraft	3721	336411	40 CFR 433	RENEWED 3/01/2012	Y	N	1	0	N/A	N/A	NR	NR	NO 433 DISCHARGE
Hillcrest Camshaft Service, Inc.	3714	336310	40 CFR 433	RENEWED 9/01/2012	Y	N	1	0	RD 11/20/95	N/A	NR	NR	NO 433 DISCHARGE
Interstate Highway Sign	3993	339950	40 CFR 433	RENEWED 2/01/2012	Y	N	3	16	RD 3/25/92	N/A	RD	RD	NO pH DISCHARGE
Progress Rail Services	3562 3471	332991 332813	40 CFR 433	RENEWED 5/01/2011	Y	N	1	0	N/A	N/A	NR	NR	NO 433 DISCHARGE
PPG Industries	2851	325510	40 CFR 446	RENEWED 7/01/2012	N	N	1	0	N/A	N/A	NR	NR	NO 446 DISCHARGE
Rheim Chemie Little Rock (Tire Curing)	3011	326211	40 CFR 428	RENEWED 12/20/2012	Y	N	1	2	N/A	N/A	NR	NR	NO 428 DISCHARGE
St. Vincent Hospital	8062 2834	622110 325412	40 CFR 439	RENEWED 3/01/2012	Y	N	1	6	RD 5/14/04	N/A	NR	NR	NO 439 DISCHARGE
Welspun Tubular	3317	331210	40 CFR 433	RENEWED 6/01/2012	N	N	2	15	RD 8/23/11	RD 10/20/08	RD	RD	C

Abbreviations: C = compliance, NC = noncompliance, SNC = significant noncompliance, RD = received, NR = not required

LITTLE ROCK WASTEWATER 2012 PRETREATMENT PROGRAM STATUS REPORT

Facility Name	SIC	NAICS	Categorical Determination	Control Document		New User	Times Inspected	Times Sampled	Compliance Status				
				Last Action	Y/N				Reports				Effluent Limits
									BMR	90 Day Compliance	Semi-Annual	Self Monitoring	
Ameipride Linen and Apparel Services	7218	812332	N/A	RENEWED 1/01/2012	Y	N	2	20			By POTW		C
Arkansas Childrens Hospital	8062	622110	N/A	RENEWED 2/01/2009	Y	N	1	26			By POTW		C
Arkansas Heart Hospital	8062	622110	N/A	RENEWED 2/01/2011	Y	N	1	18			By POTW		C
Arkansas Mental Health Services	8063	622210	N/A	RENEWED 5/1/2008	Y	N	1	18			By POTW		C
Baptist Med Center	8062	622110	N/A	RENEWED 7/01/2008	Y	N	1	31			By POTW		C
Coca-Cola Bottling	2086	312111 312112	N/A	RENEWED 2/01/2011	Y	N	2	13			By POTW		C
George Fischer Sloane	3084	326122	N/A	RENEWED 11/01/2012	Y	N	1	2			By POTW		C
Griffin Industries	2077	311613		REVISED									
Thibault	4214	484220	N/A	RENEWED 5/01/2012	Y	N	1	3			By POTW		C
Jack Wilson WTP	4941	221310	N/A	RENEWED 2/01/2012	Y	N	1	24			By POTW		C
Little Rock Central Laundry	7218	812332	N/A	RENEWED 6/01/2011	Y	N	1	4			By POTW		C
Little Rock City Landfill	4953	562212	N/A	RENEWED 4/01/2012	Y	N	2	2			By POTW		C
Little Rock Medical Assoc (Doctors)	8062	622110	N/A	RENEWED 6/01/2011	Y	N	1	3			By POTW		C
McClellan VA Medical Hospital	8062	622110	N/A	RENEWED 6/01/2009	Y	N	1	3			By POTW		C
Mountain Pure Holding, L.L.C.	5149	312112	N/A	RENEWED 12/20/12	Y	N	2	23			By POTW		NC - pH
Odom's Tennessee Pride Sausage	2013	311612	N/A	RENEWED 10/01/2012	Y	N	8	34			By POTW		NC - pH
Ozark Point WTP	4941	221310	N/A	RENEWED 12/01/2011	Y	N	1	10			By POTW		C
Porocel Corporation	2819	331311	N/A	RENEWED 7/01/2011	Y	N	2	5			By POTW		C

Abbreviations: C = compliance, NC = noncompliance, SNC = significant noncompliance, RD = received, NR = not required

**LITTLE ROCK WASTEWATER
2012 PRETREATMENT PROGRAM STATUS REPORT**

Facility Name	SIC	NAICS	Categorical Determination	Control Document		New User	Times Inspected	Times Sampled	Compliance Status				
				Last Action	Y/N				Reports				Effluent Limits
									BMR	90 Day Compliance	Semi-Annual	Self Monitoring	
Sage V Foods	2038 2044	311412 311212	N/A	RENEWED 9/01/2011	Y	N	3	60			By POTW		NC - pH, Temp
Turner Coleman Dairy	2026	311511	N/A	RENEWED 10/01/2011	Y	N	3	42			By POTW		NC - pH
Unilever	2009	311911	N/A	RENEWED 12/01/2010	Y	N	1	12			By POTW		C
Univ. of Ark Med Center	8062	622110	N/A	RENEWED 2/01/2008	Y	N	2	4			By POTW		C

Abbreviations: C = compliance, NC = noncompliance, SNC = significant noncompliance, RD = received, NR = not required

**LITTLE ROCK WASTEWATER
2012 INDUSTRIAL USER LIST**

No. of Permitted IU's Classified as Federal Categorical	15
No. of Permitted IU's Classified as Significant Industrial Users	21
No. of Permitted IU's Classified as Non-Significant Industrial Users	14
No. of Special Permits for Landfill Leachate or RSTA	5
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	955	22	pH, Zn, CN, Ni, Cu, Pb, Cd, Cr, Ag
Ace Powder Coating	Federal Categorical	40 CFR 433	Powder Coating	200	22	Permit to discharge domestic wastewater
Cameron Valve	Federal Categorical	40 CFR 433	Steel Oil Field Valves	42,534	22	Zn, Pb, pH, Ni, Permit to discharge nonregulated wastewater
Central Flying Service - Little Rock	Federal Categorical	40 CFR 433	Aircraft Refurbishing	3,706	30	pH, Permit to discharge nonregulated wastewater
CertainTeed Corporation	Federal Categorical	40 CFR 443	Asphalt Rolled Roofing Production	15,039	30	TSS, O&G, pH
Dassault Falcon Jet Corp	Federal Categorical	40 CFR 433	Custom Jet Aircraft	18,166	22	COD, pH, Permit to discharge domestic wastewater only
Hillcrest Camshaft Service, Inc.	Federal Categorical	40 CFR 433	Electroplating New Source	3,113	22	Permit to discharge domestic wastewater only
Interstate SignWays	Federal Categorical	40 CFR 433	Highway Signs	2,592	22	Cr, pH, Cu, Zn, Pb, Cd, Ni, Ag, CN(t) TTO
ITW Accessories Marketing	Federal Categorical	40 CFR 414	Tire Sealant	2,474	22	Permit to discharge domestic wastewater only
PPG	Federal Categorical	40 CFR 446	Paint and Coating	3,298	22	COD, pH, Permit to discharge domestic wastewater only
Progress Rail Services	Federal Categorical	40 CFR 433	Chrome Plating	1,918	22	Permit to discharge domestic wastewater only
Raytheon Hawker Beechcraft	Federal Categorical	40 CFR 433	Custom Jet Aircraft	4,991	30	Permit to discharge domestic wastewater only
Rheim Chemie Little Rock	Federal Categorical	40 CFR 428	Rubber Tire Curing Bladders	16,281	30	pH, Zn, Ni, CU, O&G, Permit to discharge nonregulated wastewater
St Vincent Hospital	Federal Categorical	40 CFR 439	Hospital/PETNET	111,380	30	Zero discharge for 40 CFR 439. COD, pH, Hg
Welspun Tubular	Federal Categorical	40 CFR 433	Spiral Pipe and Coating	73,978	22	Zn, Cr, Pb, pH, Cd, CN(t), Ni, Cu, Ag, COD, TSS, O&G, TTO

**LITTLE ROCK WASTEWATER
2012 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	52,133	22	COD, TSS, O&G, pH
Arkansas Children's Hospital	SIU		Hospital	126,153	30	East: COD, TSS, pH West: COD, TSS, O&G, pH
Arkansas Heart Hospital	SIU		Hospital	28,198	30	COD, TSS, O&G, pH, Hg
Arkansas Mental Health Services	SIU		Hospital	19,215	30	COD, TSS, pH
Baptist Med Center	SIU		Hospital	255,211	30	COD, TSS, O&G, pH, Hg
Coca-Cola Bottling	SIU		Soft Drink Bottling	23,826	22	COD, TSS, O&G, pH
Coleman Dairy	SIU		Dairy Products & Bottled Water	86,043	30	COD, TSS, O&G, pH
George F. Sloane, Inc.	SIU		Plastic Molding	22,460	30	COD, TSS, O&G, pH
Griffin Industries Thibault Rd.	SIU		Grease Recycling	1,346	22	COD, TSS, O&G, pH
Jack Wilson WTP	SIU		Water Treatment Plant	122,387	30	COD, TSS, pH
Little Rock Central Laundry	SIU		Industrial Laundry	32,813	22	COD, TSS, O&G, pH
Little Rock Landfill	SIU		Municipal Landfill	30,754	26	As, Cd, Cu, Cr, Pb, Ni, Mo, Hg, Ag, Se, Zn, B, Mn, pH, CN (t), volatiles, pesticides, TSS, O&G, COD NH3-N
Little Rock Medical Associates (Doctors)	SIU		Hospital	21,661	30	COD, pH, Ag, Hg, BOD, TSS, O&G
McClellan VA Hospital	SIU		Hospital	146,377	30	COD, pH, Hg, Ag
Mountain Pure Holding	SIU		Fruit Juice and Water Bottling	33,524	22	COD, TSS, O&G, pH
Odom's Tennessee Pride Sausage	SIU		Slaughter & Package Pork	232,378	22	COD, TSS, O&G, pH
Ozark Point WTP	SIU		Water Treatment Plant	54,196	30	COD, TSS, pH
Porocel Corporation	SIU		Mineral Milling	2,782	30	COD, TSS, Zn, As, Cu, Cr, Ni, Hg, pH
Sage V Foods	SIU		Rice Cooking	196,080	30	BOD, TSS, O&G, pH, COD, TS, Temp
Unilever	SIU		Peanut Butter	21,777	22	COD, TSS, O&G, pH
Univ. of Ark Med Center	SIU		Hospital	313,810	30	TSS, O&G, pH, Hg, Ag, COD

**LITTLE ROCK WASTEWATER
2012 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	4,731	22	COD, TSS, O&G, pH
BHMC- LR South Campus	Non-SIU		Hospital	1,172	30	COD, TSS, O&G, pH, Ag, Hg
BFI Landfill	Non-SIU		Landfill	3,239	30	As, Cd, Cu, Cr, Pb, Ni, Mo, Hg, Ag, Se, Zn, B, Mn, pH, CN(t), volatiles, pesticides, TSS, O&G, COD NH3-N
Clark Machinery	Non-SIU		Construction Equipment	1,351	22	COD, TSS, O&G, pH
Democrat Printing and Litho	Non-SIU		Printing Company	2,838	22	COD, pH, TSS, O&G
Diamond Bear Brewing	Non-SIU		Beer Brewery	4,072	24	COD, TSS, O&G, pH
Dusty Mop and Mat	Non-SIU		Industrial Laundry	20,680	22	COD, TSS, O&G, pH
Good Old Days Foods	Non-SIU		Frozen Fruit Cobbler	4,669	22	COD, TSS, O&G, pH
Griffin Industries	Non-SIU		Pork Hide Drying	422	22	COD, TSS, O&G, pH
I-30 Tank Wash	Non-SIU		Truck Wash	1,657	22	COD, TSS, O&G, pH
Martinous Oriental Rug	Non-SIU		Retail Rug Sales & Cleaning	312	22	pH
Phelps Fan	Non-SIU		Fan Manufacturer	5400 / Batch	22	pH, Cr, Ni, Cu
Ryerson	Non-SIU		Metal Fabrication	760	30	pH, Cu, Zn

Landfill Leachate and Restricted Short Term Authorizations

Facility Name	Classification	Federal Cat. Standard No.	Manufacturing Process	Total gal/2012	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

SUMMARY OF ANALYTICAL RESULTS

INFLUENT AND EFFLUENT ANALYSES OF TREATMENT PLANTS

Priority Pollutant Scans were conducted on the Adams Field, Fourche Creek, and 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 the following order:

- AF-WWTP 2012 Sample Results - This information includes a summary page of influent and effluent required test data for parameters from 40 CFR Part 122, Appendix D, Table III reported in a format requested by ADEQ. The summary page is followed by separate influent and effluent data tables. Sampling and testing frequency requirements for Table III parameters are quarterly (NPDES Permit AR 0021806 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.
- FC-WWTP 2012 Sample Results - This information includes a summary page of influent and effluent required test data for parameters from 40 CFR Part 122, Appendix D, Table III reported in a format requested by ADEQ. The summary page is followed by separate influent and effluent data tables. 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.
- LM-WWTP 2012 Sample Results - This information includes a summary page of influent and effluent required test data for parameters from 40 CFR Part 122, Appendix D, Table III reported in a format requested by ADEQ. The summary page is followed by separate influent and effluent data tables. 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 - This page includes three (3) data tables of metals percent removal rates for the Adams Field, Fourche Creek and Little Maumelle Wastewater Treatment Plants. These removal rates are calculated based on

the influent and effluent concentrations reported in the data tables provided for each treatment plant.

- LRWU 2012 Priority Pollutant Scan - Organic Fractions - This information includes required test data from 40 CFR Part 122, Appendix D, Table II divided into two parts. The first page identifies the positive measurements of organic compounds in the influent and effluent from all three wastewater treatment plants (WWTP) from 2012. The second page includes a summary of positive measurements from 1991 through 2012. 40 CFR Part 122, Appendix D, Table II monitoring frequency for 2012 is once per year for all three WWTP influents and effluents in accordance with the NPDES permit (NPDES Permits AR 0021806, AR 0040177, and AR 0050849). On Page 3 of 3 are the organic fraction trends of detection for 1991 through 2012.
- Treatment Plant Concentration Trends - This information includes graphs showing AF-WWTP and FC-WWTP influent and effluent concentration trends for the past nineteen years, 1994-2012. Some peaks may be due to changes in test methods and detection limits. LM-WWTP began wastewater treatment operations in August 2011. Annual concentration trend charts for LM-WWTP are for data beginning August 2011-2012.

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2012 TO DECEMBER 31, 2012
CITY OF LITTLE ROCK - ADAMS FIELD WASTEWATER TREATMENT PLANT
NPDES PERMIT NO.: AR0021806

AVERAGE POTW FLOW: 18.20 MGD

PERCENT (%) IU FLOW: 8.4 %

METALS, CYANIDE and PHENOLS	MAHC (Total) (µg/l)	INFLUENT DATES SAMPLED (µg/l) Once/quarter				WQ level/limit (µg/l)	EFFLUENT DATES SAMPLED (µg/l) Once/quarter				LABORATORY ANALYSIS		
		Start Date	Start Date	Start Date	Start Date		Start Date	Start Date	Start Date	Start Date	EPA MQL (µg/l)	EPA Method Used	Detection Level Achieved
		1/24/2012	4/16/2012	7/10/2012	10/17/2012		1/24/2012	4/16/2012	7/10/2012	10/17/2012			
Antimony		< 60	< 60	< 60	< 60		< 60	< 60	< 60	< 60	60	200.8	60
Cadmium	9	< 0.5	< 0.5	< 0.5	< 0.5	54	< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Copper	270	25.0	34.0	77.0	41.0	214	6.8	6.5	8.3	6.5	0.5	200.8	0.5
Lead	50	3.1	4.3	5.3	4.2	198	1.1	0.8	0.8	< 0.5	0.5	200.8	0.5
Mercury	0.20	0.1010	0.1360	0.0785	0.0426	0.1	0.0041	0.0044	0.0093	0.0028	0.005	1631E	0.0002/0.0005
Nickel	160	4.5	5.9	6.2	5.0	4,990	2.6	3.4	3.1	2.4	0.5	200.8	0.5
Selenium	10	< 5	< 5	< 5	< 5	56	< 5	< 5	< 5	< 5	5	200.8	5
Silver	180	0.8	0.6	< 0.5	< 0.5	57	< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Zinc	360	130	120	200	130	1,700	30	40	40	30	20	200.8	20
Chromium	260	< 10	< 10	13	11	11,200	< 10	< 10	< 10	< 10	10	200.8	10
Cyanide	90	< 1.4	< 1.4	1.5	< 1.4	50	< 1.4	2.1	1.8	< 1.4	10	SM20 4500 C&E	1.4
Arsenic	14	0.9	< 0.5	2.2	2.6	2,380	< 0.5	< 0.5	< 0.5	0.7	0.5	200.8	0.5
Molybdenum		< 8	< 8	< 8	< 8		< 8	< 8	< 8	< 8		200.8	8
Phenols		17.3	49.8	57.0	27.6		4.7	8.2	5.2	4.0	5	420.1	2.4
Beryllium		< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Thallium		< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Barium				45					12			200.7/200.8	2
Boron				200					200			200.8	100
Manganese				470					320			200.7/200.8	2
Oil and Grease		16,000	37,000	30,000	12,000		< 5,000	6,000	< 5,000	< 5,000		1664A	5,000
Flow, MGD		24.99	21.13	15.19	18.95		18.24	18.50	11.92	15.83			

**MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2012 TO DECEMBER 31, 2012**

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

NPDES PERMIT NO.: AR0021806

AVERAGE POTW FLOW: 18.20 MGD

PERCENT (%) IU FLOW: 8.4 %

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
EPA Test Method Used	1664A	SM20th 4500 C&E	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	1631E	420.1	200.8	200.8	200.8	200.7 / 200.8	200.7 / 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	0.00020/0.0005	2.4	0.06	0.0005	0.0005	0.002	0.002	0.1	
1/24-25/2012	24.99			0.13 <	0.5 <	10	0.8	25.0 <	8	4.5	3.1	0.9 <	5			< 0.06 <	0.0005 <	0.0005			
2/9-10/2012	27.02	16 <	0.0014											0.1010	17.3						
4/16-17/2012	21.13			0.12 <	0.5 <	10	0.6	34.0 <	8	5.9	4.3 <	0.5 <	5			< 0.06 <	0.0005 <	0.0005			
6/6-7/2012	15.52	37 <	0.0014											0.1360	49.8						
7/10-11/2012	15.19			0.20 <	0.5	13 <	0.5	77.0 <	8	6.2	5.3	2.2 <	5			< 0.06 <	0.0005 <	0.0005	0.470	0.045	0.2
8/29-30/2012	11.82	30	0.0015											0.0785	57.0						
10/17-18/2012	18.95			0.13 <	0.5	11 <	0.5	41.0 <	8	5.0	4.2	2.6 <	5			< 0.06 <	0.0005 <	0.0005			
11/28-29/2012	15.46	12 <	0.0014											0.0426	27.6						
Average	18.76	24	0.0014	0.15 <	0.5	11	0.6	44.3 <	8	5.4	4.2	1.5 <	5	0.0895	37.9	< 0.06 <	0.0005 <	0.0005	0.470	0.045	0.2
Maximum	27.02	37	0.0015	0.20 <	0.5	13	0.8	77.0 <	8	6.2	5.3	2.6 <	5	0.1360	57.0	< 0.06 <	0.0005 <	0.0005	0.470	0.045	0.2
Minimum	11.82	12 <	0.0014	0.12 <	0.5 <	10 <	0.5	25.0 <	8	4.5	3.1 <	0.5 <	5	0.0426	17.3	< 0.06 <	0.0005 <	0.0005	0.470	0.045	0.2
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, 2012 TO DECEMBER 31, 2012**

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

NPDES PERMIT NO.: AR0021806

AVERAGE POTW FLOW: 18.20 MGD PERCENT (%) IU FLOW: 8.4 %

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	Mn mg/L	Ba mg/L	B mg/l
EPA Test Method Used	1664A	SM200h 4500 C&E	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	1631E	420.1	200.8	200.8	200.8	200.7 / 200.8	200.7 / 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	0.00020	0.0005	2.4	0.06	0.0005	0.0005	0.002	0.002	0.1
1/24-25/2012	18.24			0.03	< 0.5	< 10	< 0.5	6.8	< 8	2.6	1.1	< 0.5	< 5			< 0.06	< 0.0005	< 0.0005			
2/9-10/2012	22.94	< 5	< 0.0014											0.0041	4.7						
4/16-17/2012	18.50			0.04	< 0.5	< 10	< 0.5	6.5	< 8	3.4	0.8	< 0.5	< 5			< 0.06	< 0.0005	< 0.0005			
6/6-7/2012	15.79	6	0.0021											0.0044	8.2						
7/10-11/2012	11.92			0.04	< 0.5	< 10	< 0.5	8.3	< 8	3.1	0.8	< 0.5	< 5			< 0.06	< 0.0005	< 0.0005	0.320	0.012	0.2
8/29-30/2012	10.98	< 5	0.0018											0.0093	5.2						
10/17-18/2012	15.83			0.03	< 0.5	< 10	< 0.5	6.5	< 8	2.4	< 0.5	0.7	< 5			< 0.06	< 0.0005	< 0.0005			
11/28-29/2012	12.88	< 5	< 0.0014											0.0028	4.0						
Average	15.89	5	0.0017	0.03	< 0.5	< 10	< 0.5	7.0	< 8	2.9	0.8	0.6	< 5	0.0051	5.5	< 0.06	< 0.0005	< 0.0005	0.320	0.012	0.2
Maximum	22.94	6	0.0021	0.04	< 0.5	< 10	< 0.5	8.3	< 8	3.4	1.1	0.7	< 5	0.0093	8.2	< 0.06	< 0.0005	< 0.0005	0.320	0.012	0.2
Minimum	10.98	< 5	< 0.0014	0.03	< 0.5	< 10	< 0.5	6.5	< 8	2.4	< 0.5	< 0.5	< 5	0.0028	4.0	< 0.06	< 0.0005	< 0.0005	0.320	0.012	0.2
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, 2012 TO DECEMBER 31, 2012
CITY OF LITTLE ROCK - FOURCHE CREEK WASTEWATER TREATMENT PLANT
NPDES PERMIT NO.: AR0040177

AVERAGE POTW FLOW: 10.50 MGD

PERCENT (%) IU FLOW: 5.8 %

METALS, CYANIDE and PHENOLS	MAHC (Total) (µg/l)	INFLUENT DATES SAMPLED (µg/l) Once/quarter				WQ level/limit (µg/l)	EFFLUENT DATES SAMPLED (µg/l) Once/quarter				LABORATORY ANALYSIS		
		Start Date	Start Date	Start Date	Start Date		Start Date	Start Date	Start Date	Start Date	EPA MQL (µg/l)	EPA Method Used	Detection Level Achieved
		1/24/2012	4/16/2012	7/16/2012	10/23/2012		1/25/2012	4/17/2012	7/17/2012	10/24/2012			
Antimony		< 60	< 60	< 60	< 60		< 60	< 60	< 60	< 60	60	200.8	60
Cadmium	9	0.7	< 0.5	< 0.5	< 0.5	107	< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Copper	270	22.0	19.0	38.0	50.0	619	3.5	4.2	3.0	3.3	0.5	200.8	0.5
Lead	50	3.0	6.8	6.2	3.5	395	0.7	1.2	< 0.5	0.5	0.5	200.8	0.5
Mercury	0.20	0.0367	0.0934	0.0522	0.0409	0.27	0.0024	0.0022	0.0034	0.0014	0.005	1631E	0.0002/0.0005
Nickel	160	5.5	8.6	4.9	6.3	9,980	3.4	4.3	3.8	3.0	0.5	200.8	0.5
Selenium	10	< 5	< 5	< 5	< 5	112	< 5	< 5	< 5	< 5	5	200.8	5
Silver	180	0.5	0.5	< 0.5	< 0.5	165	< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Zinc	360	140	210	150	220	4,940	< 20	30	< 20	20	20	200.8	20
Chromium	260	< 10	< 10	< 7	12	23,500	< 10	< 10	< 10	< 10	10	200.8	10
Cyanide	90	< 1.4	< 1.4	< 1.5	< 2.8	116	< 1.4	12.2	2.3	< 1.4	10	SM20 4500 C&E	1.4
Arsenic	14	< 1.0	< 0.5	< 1.2	< 2.4	6,900	< 0.5	< 0.5	2.4	2.0	0.5	200.8	0.5
Molybdenum		< 8	< 8	< 8	< 8		< 8	< 8	< 8	< 8		200.8	8
Phenols		34.6	92.7	107.0	97.6		6.5	4.2	4.0	5.1	5	420.1	2.4
Beryllium		< 0.5	< 0.5	< 2.1	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Thallium		< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Barium		42		39			5		7			200.7/200.8	2
Boron		< 100		200			< 100		200			200.8	100
Manganese		270		360			200		410			200.7/200.8	2
Oil and Grease		19,000	38,000	54,000	17,000		< 5,000	5,000	5,000	< 5,000		1664A	5000
Flow, MGD		16.01	10.52	8.65	7.66		21.64	9.96	8.92	7.92			

**MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2012 TO DECEMBER 31, 2012**

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

NPDES PERMIT NO.: AR0040177

AVERAGE POTW FLOW: 10.50 MGD

PERCENT (%) IU FLOW: 5.8 %

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
EPA Test Method Used	1664A	SM2001-4500 C&E	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	1631E	420.1	200.8	200.8	200.8	200.7 / 200.8	200.7 / 200.8	200.8
Detection Level Achieved	5	0.0014	0.02	0.5	10.77	0.5	0.5	8	0.5	0.5	0.5	5	0.0002/0.0005	2.4	0.06	0.0005	0.0005	0.002	0.002	0.1	
1/24-25/2012	16.01			0.14	0.7	< 10	0.5	22.0	< 8	5.5	3.0	1.0	< 5			< 0.06	< 0.0005	< 0.0005	0.270	0.042	< 0.1
2/9-10/2012	10.97	19	< 0.0014											0.0367	34.6						
4/16-17/2012	10.52			0.21	< 0.5	< 10	0.5	19.0	< 8	8.6	6.8	< 0.5	< 5			< 0.06	< 0.0005	< 0.0005			
6/6-7/2012	6.53	38	< 0.0014											0.0934	92.7						
7/16-17/2012	8.65			0.15	< 0.5	< 7	< 0.5	38.0	< 8	4.9	6.2	1.2	< 5			< 0.06	0.0021	< 0.0005	0.360	0.039	0.2
8/29-30/2012	9.65	54	0.0015											0.0522	107.0						
10/23-24/2012	7.66			0.22	< 0.5	12	< 0.5	50.0	< 8	6.3	3.5	2.4	< 5			< 0.06	< 0.0005	< 0.0005			
11/28-29/2012	7.18	17	< 0.0028											0.0409	97.6						
Average	9.65	32	0.0018	0.18	0.5	10	0.5	32.3	< 8	6.3	4.9	1.3	< 5	0.0558	83.0	< 0.06	0.0009	< 0.0005	0.315	0.041	0.1
Maximum	16.01	54	< 0.0028	0.22	0.7	12	0.5	50.0	< 8	8.6	6.8	2.4	< 5	0.0934	107.0	< 0.06	0.0021	< 0.0005	0.360	0.042	0.2
Minimum	6.53	17	< 0.0014	0.14	< 0.5	< 7	< 0.5	19.0	< 8	4.9	3.0	< 0.5	< 5	0.0367	34.6	< 0.06	< 0.0005	< 0.0005	0.270	0.039	< 0.1
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, 2012 TO DECEMBER 31, 2012**

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

NPDES PERMIT NO.: AR0040177

AVERAGE POTW FLOW: 10.50 MGD PERCENT (%) IU FLOW: 5.8 %

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	Mn mg/L	Ba mg/L	B mg/l
EPA Test Method Used	1664A	SM2016 4500 C&E	200.8	7191A / 200.8	3113B / 200.8	3113B / 7191A / 200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	1631E / 245.7	420.1	200.8	3113B / 7091A / 200.8	200.8	200.7 / 200.8	200.7 / 200.8	200.8
Detection Level Achieved	5	0.0014	0.02	0.5	10	0.5	0.5	0.5	8	0.5	0.5	0.5	5	0.0002/0.0005	2.4	0.06	0.0005	0.0005	0.002	0.002	0.1
1/25-26/2012	21.64	< 5	< 0.0014	< 0.02	< 0.5	< 10	< 0.5	3.5	< 8	3.4	0.7	< 0.5	< 5		< 0.06	< 0.0005	< 0.0005	0.200	0.005	< 0.1	
2/9-10/2012	12.47	< 5	< 0.0014											0.0024	6.5						
4/17-18/2012	9.96			0.03	< 0.5	< 10	< 0.5	4.2	< 8	4.3	1.2	< 0.5	< 5		< 0.06	< 0.0005	< 0.0005				
6/6-7/2012	6.44	5	0.0122											0.0022	4.2						
7/17-18/2012	8.92			< 0.02	< 0.5	< 10	< 0.5	3.0	< 8	3.8	< 0.5	2.4	< 5		< 0.06	< 0.0005	< 0.0005	0.410	0.007	0.2	
8/29-30/2012	8.33	5	0.0023											0.0034	4.0						
10/24/2012	7.92			0.02	< 0.5	< 10	< 0.5	3.3	< 8	3.0	0.5	2.0	< 5		< 0.06	< 0.0005	< 0.0005				
11/28-29/2012	7.57	< 5	< 0.0014											0.0014	5.1						
Average	10.41	5	0.0043	0.02	< 0.5	< 10	< 0.5	3.5	< 8	3.6	0.7	1.4	< 5	0.0024	5.0	< 0.06	< 0.0005	< 0.0005	0.305	0.006	0.2
Maximum	21.64	5	0.0122	0.03	< 0.5	< 10	< 0.5	4.2	< 8	4.3	1.2	2.4	< 5	0.0034	6.5	< 0.06	< 0.0005	< 0.0005	0.410	0.007	0.2
Minimum	6.44	< 5	< 0.0014	< 0.02	< 0.5	< 10	< 0.5	3.0	< 8	3.0	< 0.5	< 0.5	< 5	0.0014	4.0	< 0.06	< 0.0005	< 0.0005	0.200	0.005	< 0.1
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: 6/6-7/2012 CN-(a-c) 0.0077mg/L

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
 REPORTING YEAR: JANUARY 1, 2012 TO DECEMBER 31, 2012
 CITY OF LITTLE ROCK - LITTLE MAUMELLE WASTEWATER TREATMENT PLANT
 NPDES PERMIT NO.: AR0050849

AVERAGE POTW FLOW: 2.34 MGD

PERCENT (%) IU FLOW: 0 %

METALS, CYANIDE and PHENOLS	MAHC (Total) (µg/l)	INFLUENT DATES SAMPLED (µg/l) Once/quarter				WQ level/limit (µg/l)	EFFLUENT DATES SAMPLED (µg/l) Once/quarter				LABORATORY ANALYSIS		
		Start Date	Start Date	Start Date	Start Date		Start Date	Start Date	Start Date	Start Date	EPA MQL (µg/l)	EPA Method Used	Detection Level Achieved
		1/24/2012	4/23/2012	7/17/2012	10/22/2012		1/26/2012	4/25/2012	7/18/2012	10/24/2012			
Antimony		< 60	< 60	< 60	< 60		< 60	< 60	< 60	< 60	60	200.8	60
Cadmium	9	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Copper	270	20.0	19.0	27.0	31.0	N/A	4.6	7.9	5.1	6.5	0.5	200.8	0.5
Lead	50	1.4	1.2	1.3	1.3	N/A	< 0.5	0.9	< 0.5	< 0.5	0.5	200.8	0.5
Mercury	0.20	0.0360	0.0647	0.0707	0.0703	N/A	0.0041	0.0036	0.0036	0.0028	0.005	1631E	0.0002/0.0005
Nickel	160	3.8	3.1	2.8	3.2	N/A	1.4	4.0	2.0	1.9	0.5	200.8	0.5
Selenium	10	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	5	200.8	5
Silver	180	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Zinc	360	240	380	190	150	N/A	20	60	40	60	20	200.8	20
Chromium	260	< 10	< 10	< 10	< 10	N/A	< 10	< 10	16	< 10	10	200.8	10
Cyanide	90	< 1.4	< 1.4	< 1.4	< 1.4	N/A	< 1.4	< 1.4	< 1.4	< 1.4	10	SM20 4500 C&E	1.4
Arsenic	14	< 0.5	< 0.5	1.4	1.2	N/A	< 0.5	< 0.5	< 0.5	1.1	0.5	200.8	0.5
Molybdenum		< 8	< 8	< 8	< 8		< 8	< 8	< 8	< 8		200.8	8
Phenols		24.8	49.6	45.9	50.2		4.4	4.6	2.6	3.3	5	420.1	2.4
Beryllium		< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Thallium				160.0			0.9	< 0.5	< 0.5	< 0.5	0.5	200.8	0.5
Barium				31					5			200.7/200.8	2
Boron				200					200			200.8	100
Manganese				560					15			200.7/200.8	2
Oil and Grease		17,000	29,000	18,000	22,000		< 5,000	5,900	< 5,000	< 5,000		1664A	5000
Flow, MGD		3.17	1.71	1.63	1.68		3.78	1.51	1.68	1.71			

**MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: JANUARY 1, 2012 TO DECEMBER 31, 2012**

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

NPDES PERMIT NO.: AR0050849

AVERAGE POTW FLOW: 2.34 MGD PERCENT (%) IU FLOW: 0 %

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
EPA Test Method Used:	1664A	SM209h 4500 C&E	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	1631i	420.1	200.8	200.8	200.8	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	0.0002/0.0005	2.4	0.06	0.0005	0.0005	0.002	0.002	0.1	
1/24-25/2012	3.17			0.24 <	0.5 <	10 <	0.5	20.0 <	8	3.8	1.4 <	0.5 <	5		<	0.06 <	0.0005				
2/9-10/2012	2.66	17 <	0.0014											0.0360	24.8						
4/23-24/2012	1.71			0.38 <	0.5 <	10 <	0.5	19.0 <	8	3.1	1.2 <	0.5 <	5		<	0.06 <	0.0005				
6/6-7/2012	1.89	29 <	0.0014											0.0647	49.6						
07/17/2012	1.63			0.19 <	0.5 <	10 <	0.5	27.0 <	8	2.8	1.3	1.4 <	5		<	0.06 <	0.0005	0.1600	0.560	0.031	0.2
8/29-30/2012	1.67	18 <	0.0014											0.0707	45.9						
10/22-23/2012	1.68			0.15 <	0.5 <	10 <	0.5	31.0 <	8	3.2	1.3	1.2 <	5		<	0.06 <	0.0005				
11/28-29/2012	1.62	22 <	0.0014											0.0703	50.2						
Average	2.00	22 <	0.0014	0.24 <	0.5 <	10 <	0.5	24.3 <	8	3.2	1.3	0.9 <	5	0.0604	42.6 <	0.06 <	0.0005	0.1600	0.560	0.031	0.2
Maximum	3.17	29 <	0.0014	0.38 <	0.5 <	10 <	0.5	31.0 <	8	3.8	1.4	1.4 <	5	0.0707	50.2 <	0.06 <	0.0005	0.1600	0.560	0.031	0.2
Minimum	1.62	17 <	0.0014	0.15 <	0.5 <	10 <	0.5	19.0 <	8	2.8	1.2 <	0.5 <	5	0.0360	24.8 <	0.06 <	0.0005	0.1600	0.560	0.031	0.2
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, 2012 TO DECEMBER 31, 2012**

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

NPDES PERMIT NO.: AR0050849

AVERAGE POTW FLOW: 2.34 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	Mn mg/L	Ba mg/L	B mg/L
EPA Test Method Used	1664A	SM200h-4500 C&E	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	1631E	420.1	200.8	200.8	200.8	200.8	200.8	200.8
Detection Level Achieved	5	0.0014	0.02	0.5	10	0.5	0.5	0.5	8	0.5	0.5	0.5	5	0.0002/0.0005	2.4	0.06	0.0005	0.0005	0.002	0.002	0.1
1/26-27/2012	3.78		0.02	< 0.5	< 10	< 0.5	4.6	< 8	1.4	< 0.5	< 0.5	< 5			< 0.06	< 0.0005	0.0009				
2/9-10/2012	2.51	< 5.0	< 0.0014											0.0041	4.4						
4/25-26/2012	1.51		0.06	< 0.5	< 10	< 0.5	7.9	< 8	4.0	0.9	< 0.5	< 5			< 0.06	< 0.0005	< 0.0005				
6/6-7/2012	1.83	5.9	< 0.0014											0.0036	4.6						
7/18-19/2012	1.68		0.04	< 0.5	16	< 0.5	5.1	< 8	2.0	< 0.5	< 0.5	< 5			< 0.06	< 0.0005	< 0.0005	0.0150	0.005	0.2	
8/29-30/2012	1.26	< 5.0	< 0.0014											0.0036	2.6						
10/24-25/2012	1.71		0.06	< 0.5	< 10	< 0.5	6.5	< 8	1.9	< 0.5	1.1	< 5			< 0.06	< 0.0005	< 0.0005				
11/28-29/2012	1.66	< 5.0	< 0.0014											0.0028	3.3						
Average	1.99	5.2	< 0.0014	0.05	< 0.5	12	< 0.5	6.0	< 8	2.3	0.6	0.7	< 5	0.0035	3.7	< 0.06	< 0.0005	0.0006	0.0150	0.005	0.2
Maximum	3.78	5.9	< 0.0014	0.06	< 0.5	16	< 0.5	7.9	< 8	4.0	0.9	1.1	< 5	0.0041	4.6	< 0.06	< 0.0005	0.0009	0.0150	0.005	0.2
Minimum	1.26	< 5.0	< 0.0014	0.02	< 0.5	< 10	< 0.5	4.6	< 8	1.4	< 0.5	< 0.5	< 5	0.0028	2.6	< 0.06	< 0.0005	< 0.0005	0.0150	0.005	0.2
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							
Day Max.																					
Month Avg.																					

Comments: None

**MONITORING RESULTS FOR THE ANNUAL PRETREATMENT REPORT
TREATMENT PLANT PERCENT REMOVAL EFFICIENCIES
REPORTING YEAR: JANUARY 1, 2012 TO DECEMBER 31, 2012**

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	Be	Tl	Mn	Ba	B
1/24-25/2012			80.0%	0.0%	0.0%	38.3%	72.8%	0.0%	42.2%	64.5%	41.9%	0.0%			0.0%	0.0%	0.0%			
2/9-10/2012	68.8%	0.0%											96.0%	72.8%						
4/16-17/2012			64.2%	0.0%	0.0%	18.0%	80.9%	0.0%	42.4%	82.3%	0.0%	0.0%			0.0%	0.0%	0.0%			
6/6-7/2012	83.5%	-50.0%											96.8%	83.5%						
7/10-11/2012			82.0%	0.0%	23.1%	0.0%	89.2%	0.0%	50.0%	84.2%	77.3%	0.0%			0.0%	0.0%	0.0%	31.9%	73.3%	-6.7%
8/29-30/2012	83.3%	-20.0%											88.2%	90.9%						
10/17-18/2012			80.8%	0.0%	9.1%	0.0%	84.1%	0.0%	52.0%	88.1%	71.9%	0.0%			0.0%	0.0%	0.0%			
11/28-29/2012	58.3%	0.0%											93.5%	85.5%						
Average	73.5%	-17.5%	76.7%	0.0%	8.0%	14.1%	81.8%	0.0%	46.6%	79.8%	47.8%	0.0%	93.6%	83.2%	0.0%	0.0%	0.0%	31.9%	73.3%	-6.7%

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	Be	Tl	Mn	Ba	B
1/24-25/2012			85.7%	27.5%	0.0%	7.4%	84.1%	0.0%	38.2%	76.7%	50.0%	0.0%			0.0%	0.0%	0.0%	25.9%	87.1%	0.0%
2/9-10/2012	73.7%	0.0%											93.4%	81.2%						
4/16-17/2012			86.2%	0.0%	0.0%	0.0%	77.9%	0.0%	50.0%	82.4%	0.0%	0.0%			0.0%	0.0%	0.0%			
6/6-7/2012	85.8%	-771.4%											97.7%	95.5%						
7/16-17/2012			86.7%	0.0%	-42.9%	0.0%	92.1%	0.0%	22.4%	91.9%	-100.0%	0.0%			0.0%	76.2%	0.0%	-13.9%	82.3%	-25.0%
8/29-30/2012	90.3%	-53.3%											93.5%	96.3%						
10/23-24/2012			89.1%	0.0%	16.7%	0.0%	93.4%	0.0%	52.4%	85.1%	16.7%	0.0%			0.0%	0.0%	0.0%			
11/28-29/2012	70.6%	50.0%											96.6%	94.8%						
Average	80.1%	-193.7%	87.3%	6.9%	-6.5%	1.9%	86.9%	0.0%	40.8%	84.0%	-8.3%	0.0%	95.3%	91.9%	0.0%	19.0%	0.0%	6.0%	84.7%	-12.5%

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	Be	Tl	Mn	Ba	B
1/24-25/2012			90.4%	0.0%	0.0%	0.0%	77.0%	0.0%	63.2%	64.3%	0.0%	0.0%			0.0%	0.0%				
2/9-10/2012	70.6%	0.0%											88.7%	82.3%						
4/23-24/2012			84.7%	0.0%	0.0%	0.0%	58.4%	0.0%	-29.0%	24.2%	0.0%	0.0%			0.0%	0.0%				
6/6-7/2012	79.7%	0.0%											94.5%	90.7%						
07/17/2012			78.4%	0.0%	-60.0%	0.0%	81.1%	0.0%	28.6%	61.5%	64.3%	0.0%			0.0%	0.0%	99.7%	97.3%	84.8%	-25.0%
8/29-30/2012	72.2%	0.0%											94.9%	94.3%						
10/22-23/2012			60.7%	0.0%	0.0%	0.0%	79.0%	0.0%	40.6%	61.5%	8.3%	0.0%			0.0%	0.0%				
11/28-29/2012	77.3%	0.0%											96.1%	93.4%						
Average	74.9%	0.0%	74.6%	0.0%	-15.0%	0.0%	73.9%	0.0%	25.8%	52.9%	18.2%	0.0%	93.5%	90.2%	0.0%	0.0%	99.7%	97.3%	84.8%	-25.0%

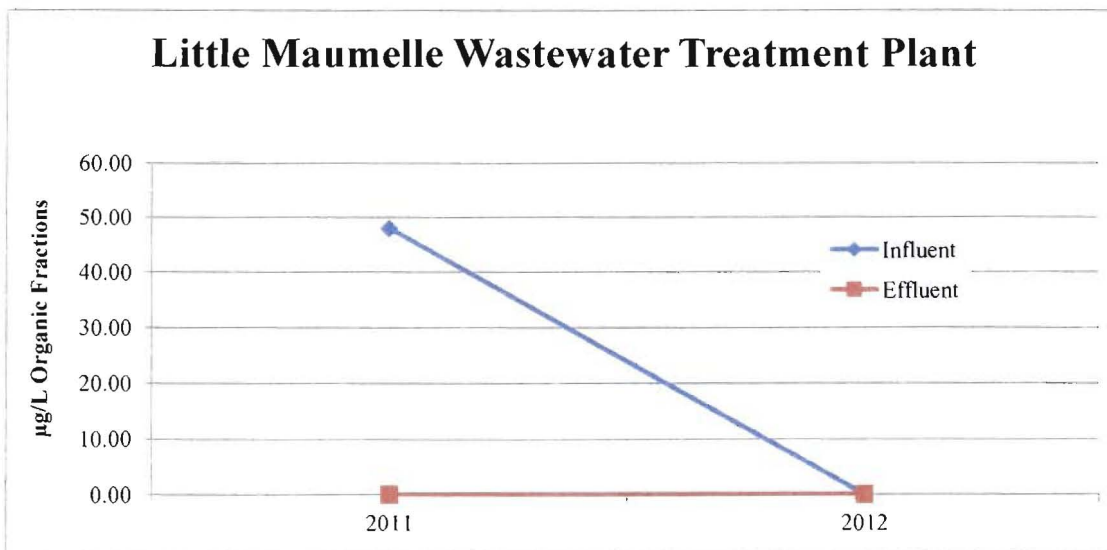
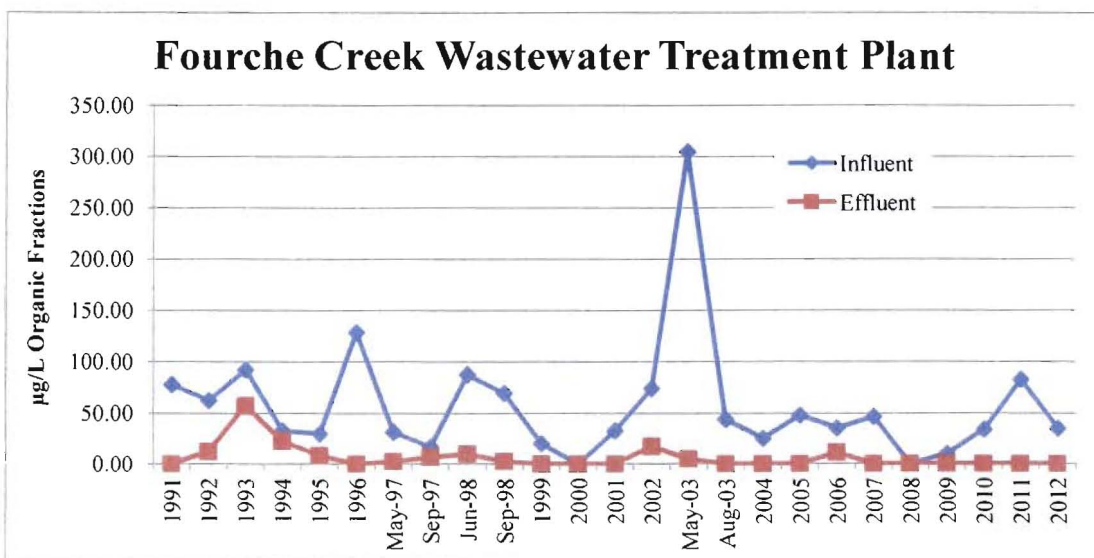
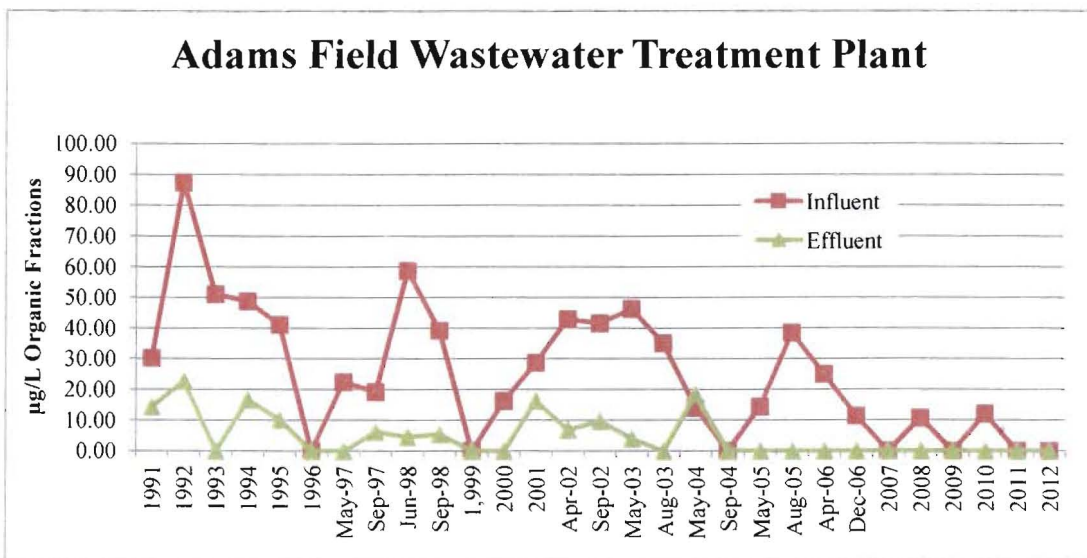
I. 2012 POSITIVE RESULTS, µg/L

ADAMS FIELD WASTEWATER TREATMENT PLANT		
Sample Date	Compound	Influent
8/21-22/2012		ND
8/29-30/2012		ND
Sample Date	Compound	Effluent
8/21-22/2012		ND
8/29-30/2012		ND

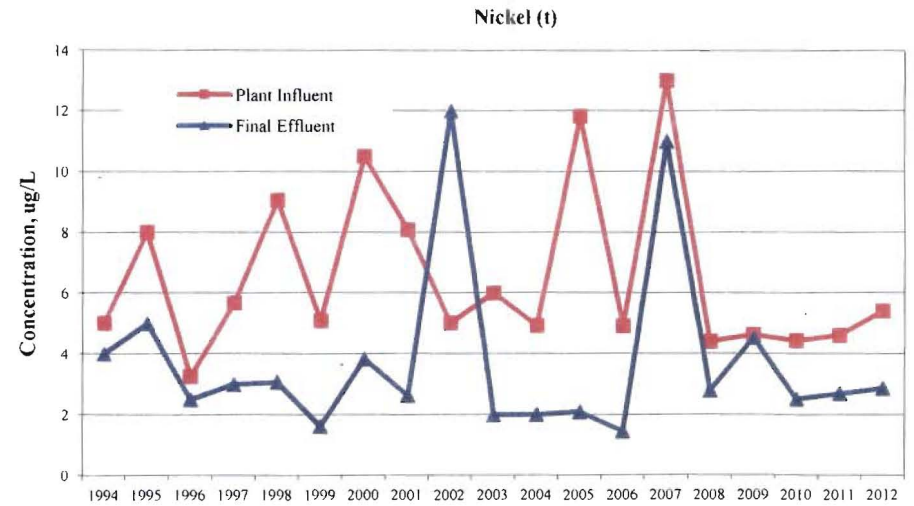
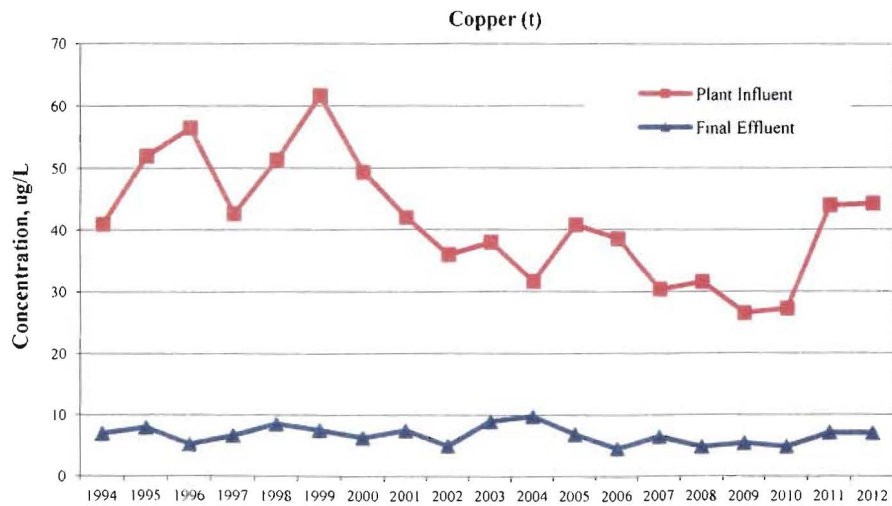
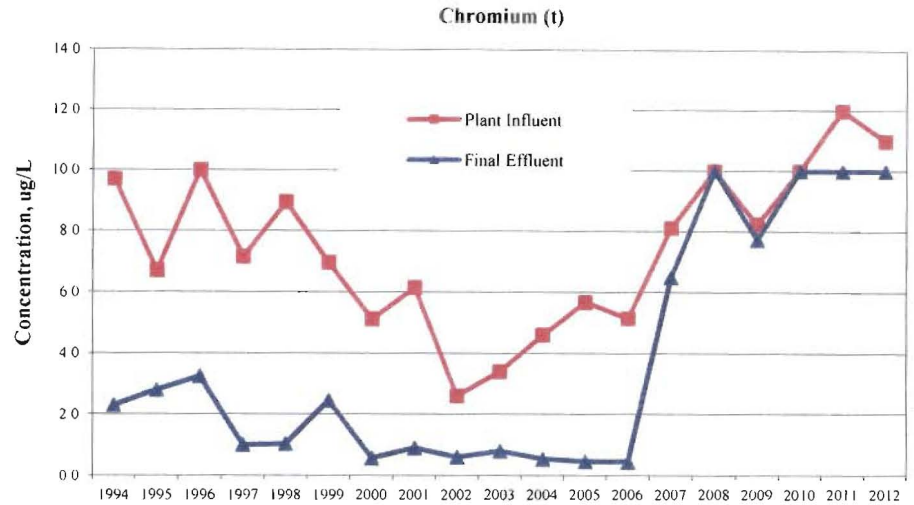
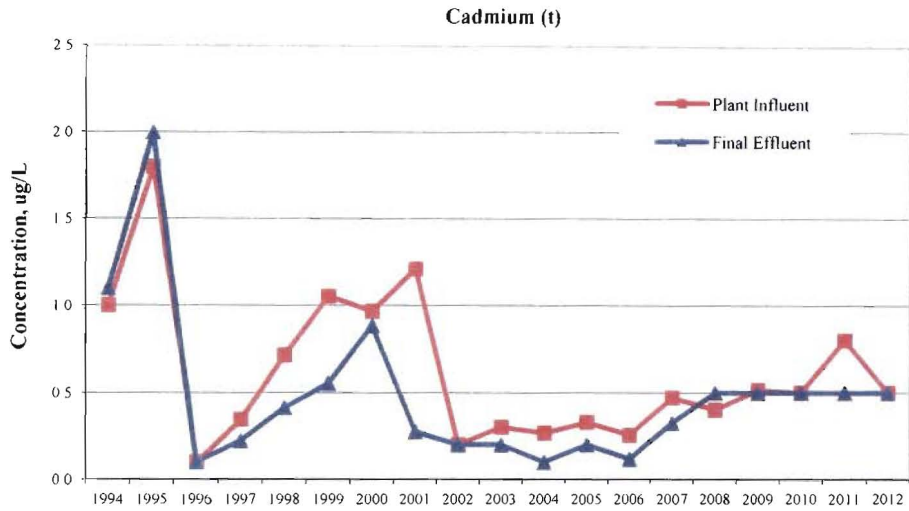
FOURCHE CREEK WASTEWATER TREATMENT PLANT		
Sample Date	Compound	Influent
6/13-14/2012	Toluene	16
8/29-30/2012	Phenol	19
Sample Date	Compound	Effluent
6/12-13/2012		ND
8/29-30/2012		ND

LITTLE MAUMELLE WASTEWATER TREATMENT PLANT		
Sample Date	Compound	Influent
6/6-7/2012		ND
6/13-14/2012		ND
8/29-30/2012		
Sample Date	Compound	Effluent
6/6-7/2012		ND
6/12-13/2012		ND
8/21-22/2012		ND
8/29-30/2012		ND

Comments: ND - No Detection

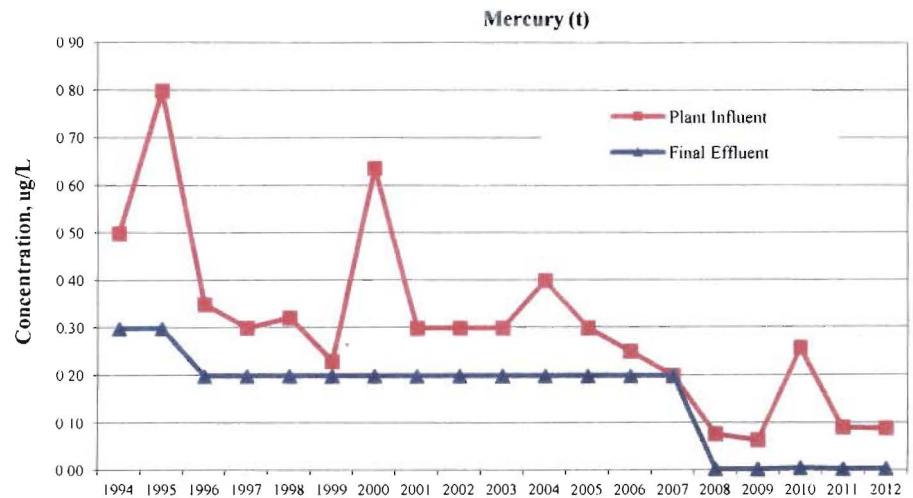
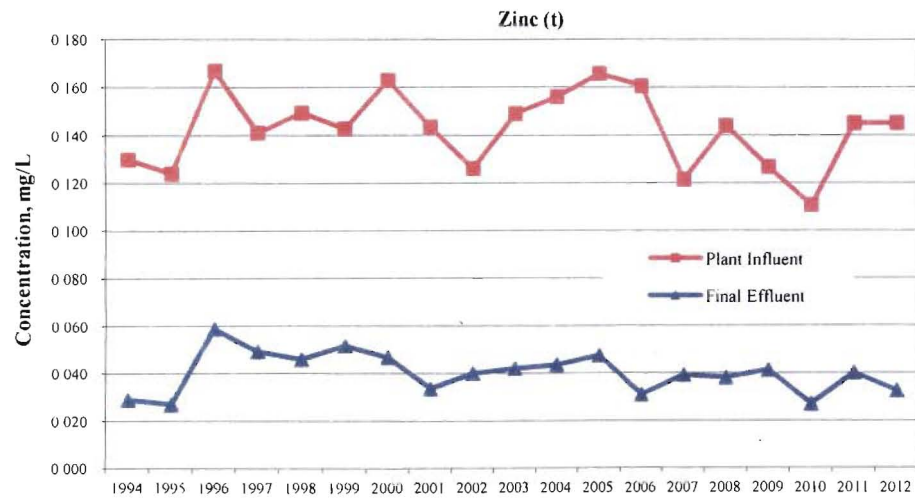
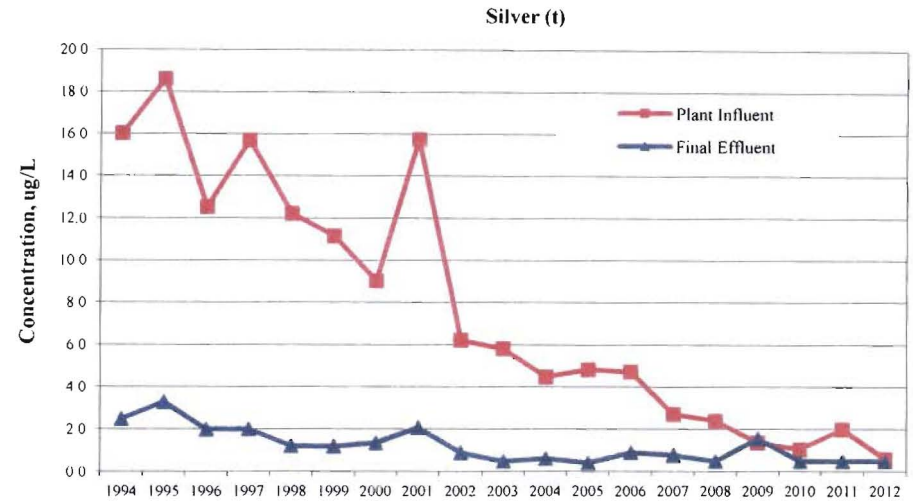
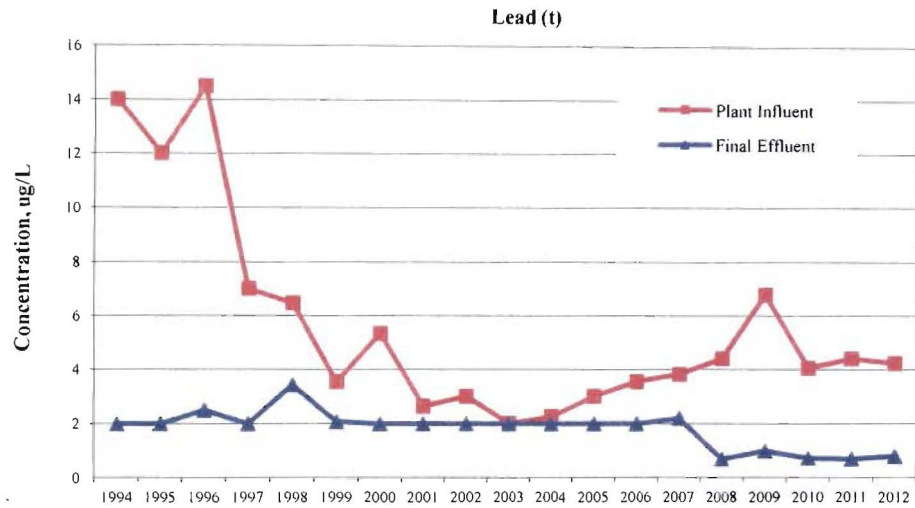


**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
ADAMS FIELD TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2012**



	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

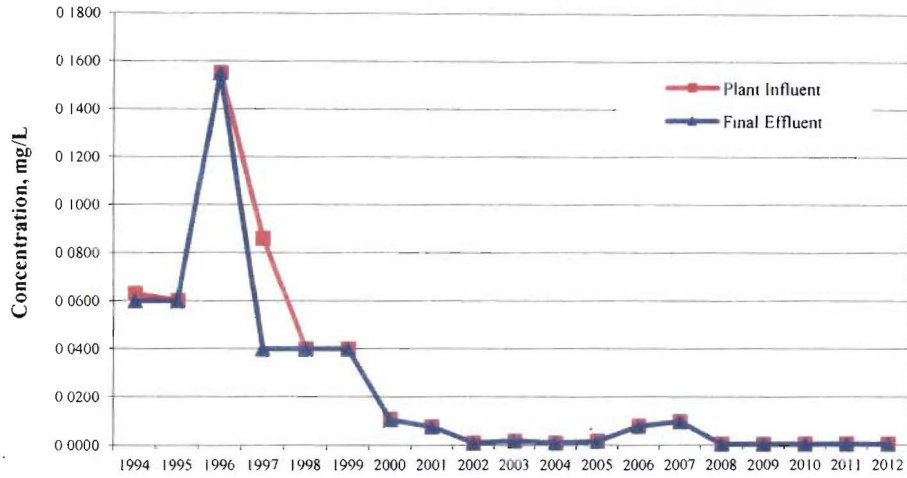
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
ADAMS FIELD TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2012**



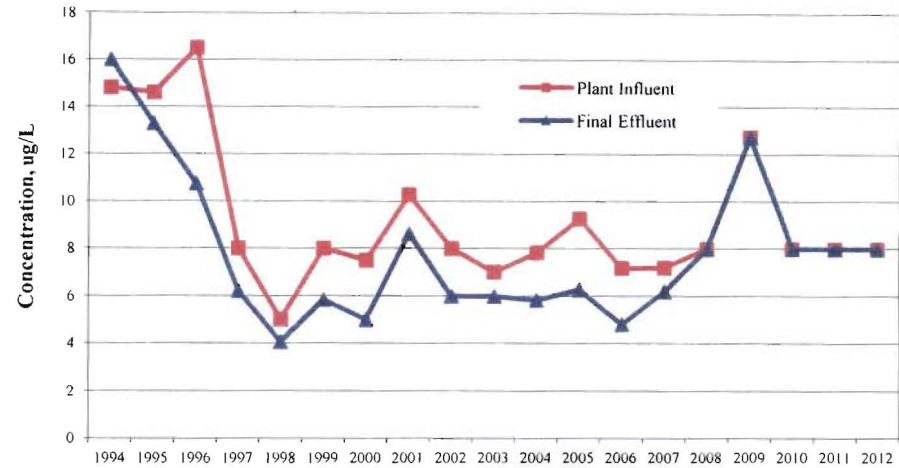
	Lead (t)	Zinc(t)	Silver(t)	Mercury(t)
Influent Headworks Limit	50 ug/L	0.36 mg/L	180 ug/L	0.2 ug/L
Effluent Water Quality Criteria (Acute)	98 ug/L	0.85 mg/L	28 ug/L	0.07 ug/L

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
ADAMS FIELD TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2012**

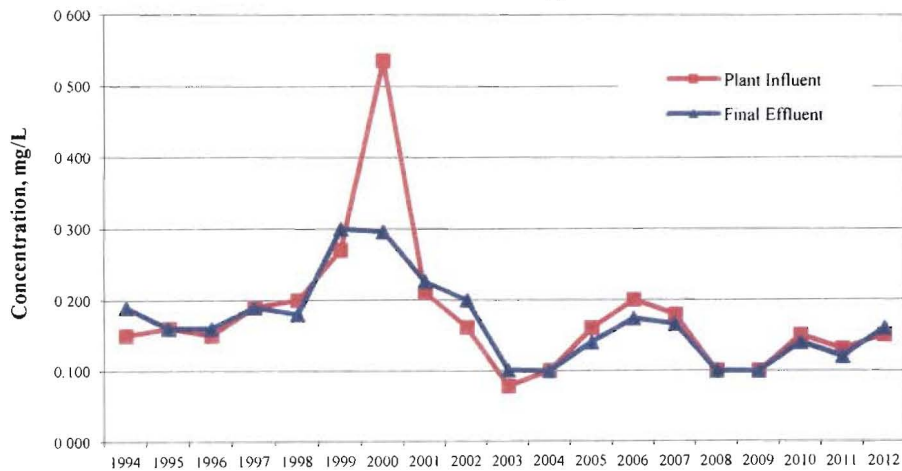
Thallium (t)



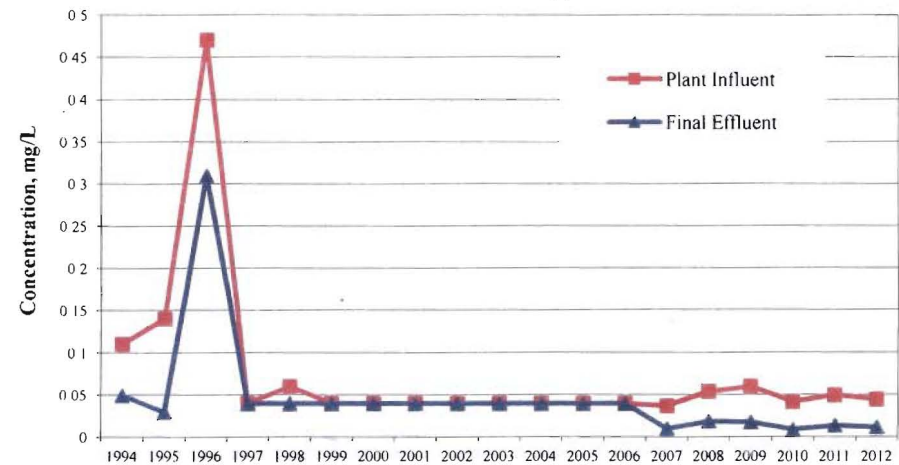
Molybdenum (t)



Boron (t)

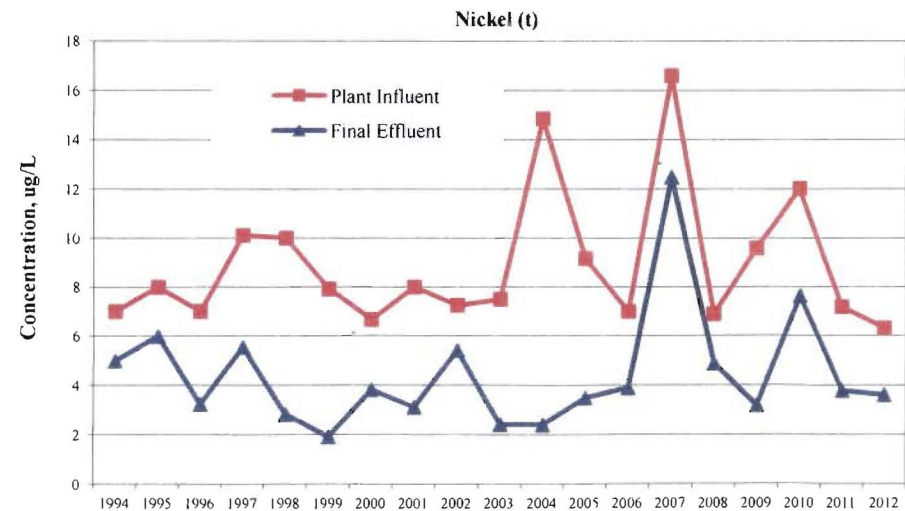
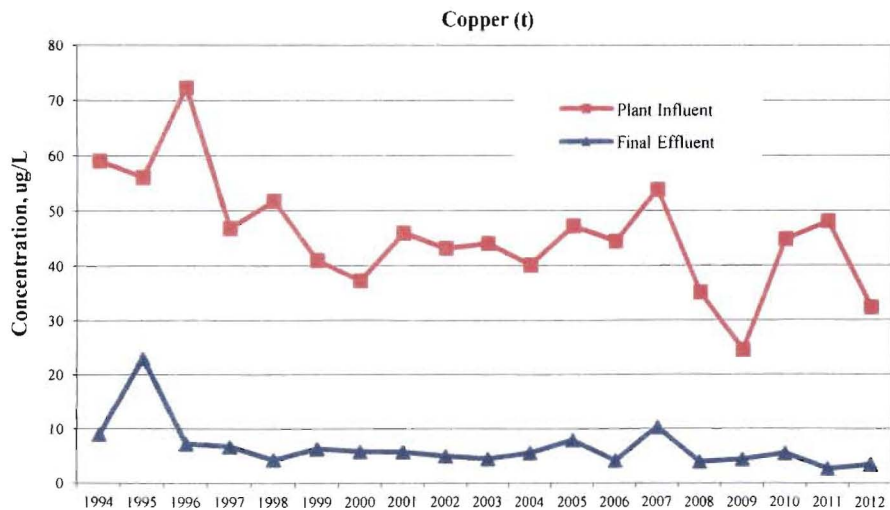
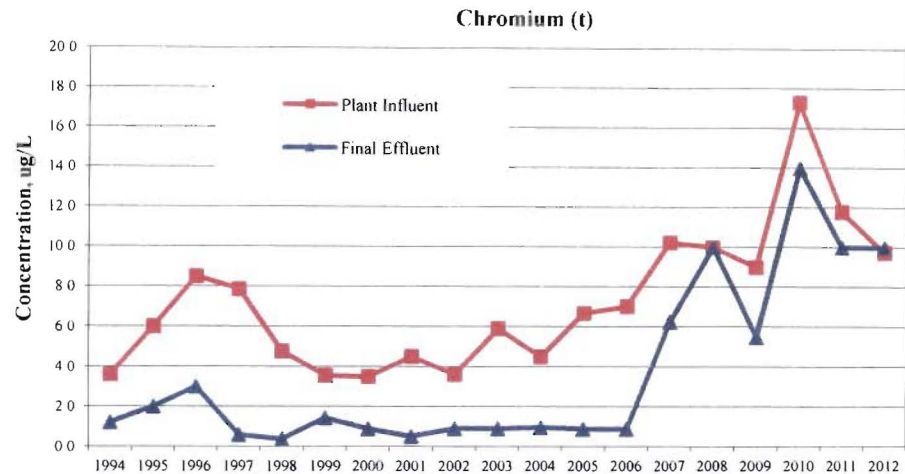
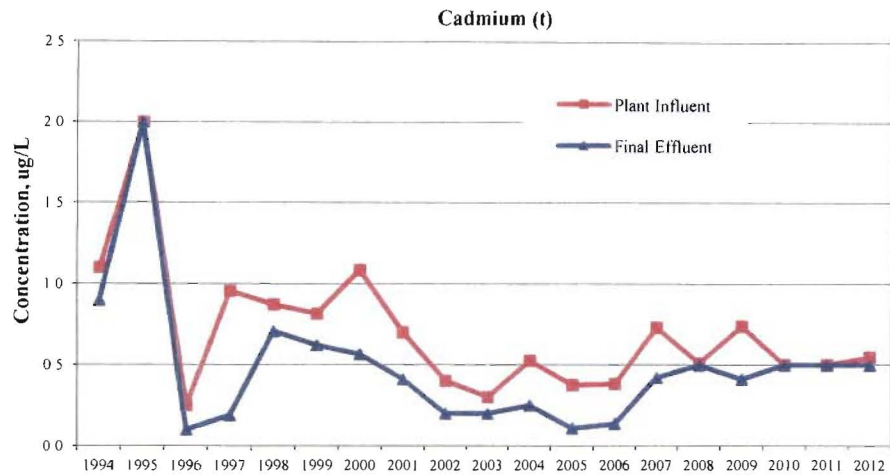


Barium (t)



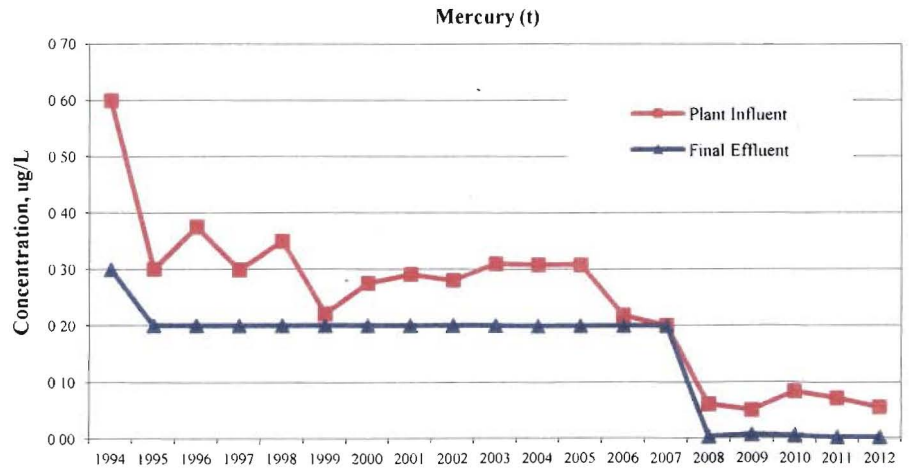
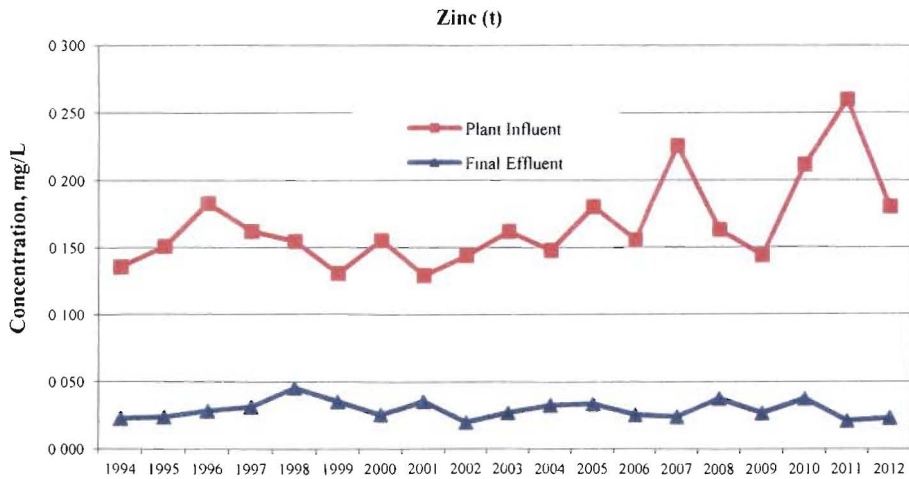
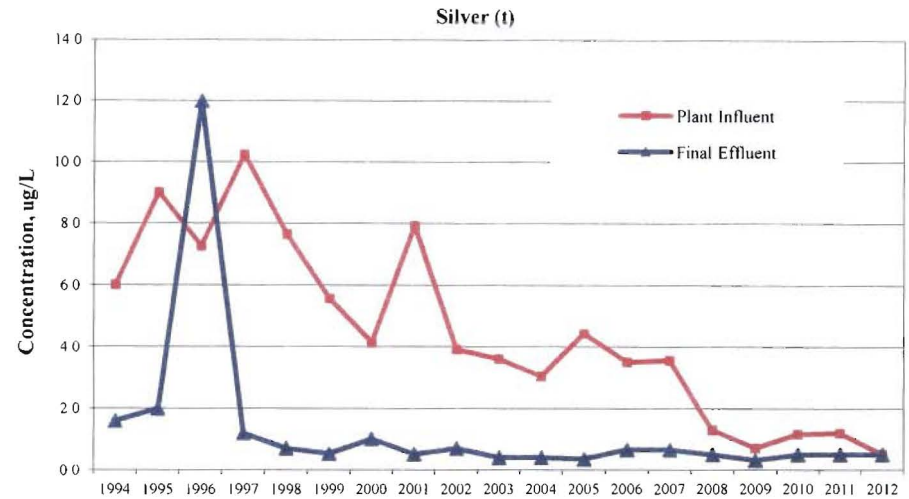
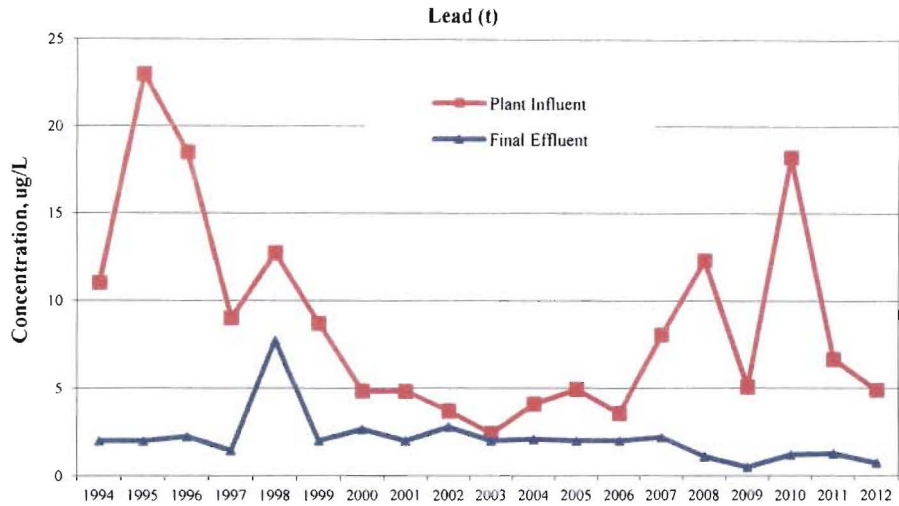
	Thallium (t)	Boron (t)	Molybdenum(t)	Barium(t)
Influent Headworks Limit	None	None	None	None
Effluent Water Quality Criteria (Acute)	None	None	None	None

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2012**



	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	53 ug/L	395 ug/L	11,700 ug/L	4,980 ug/L

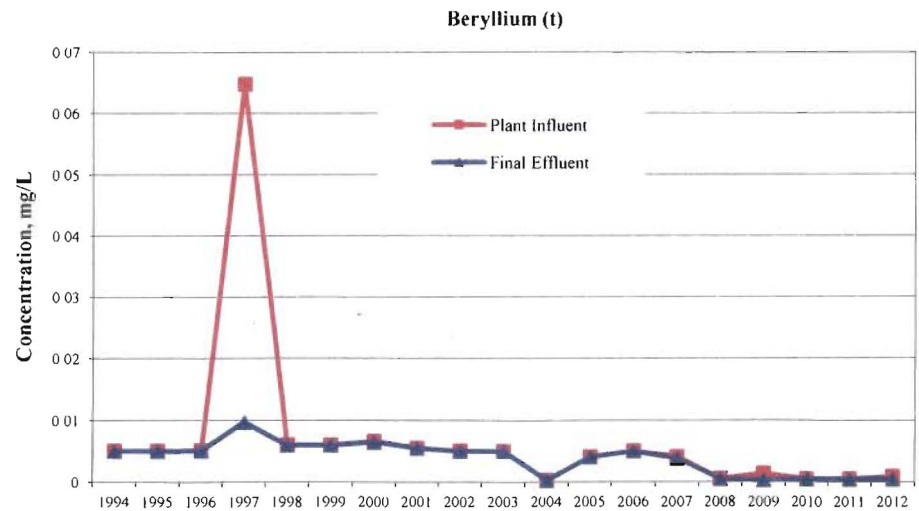
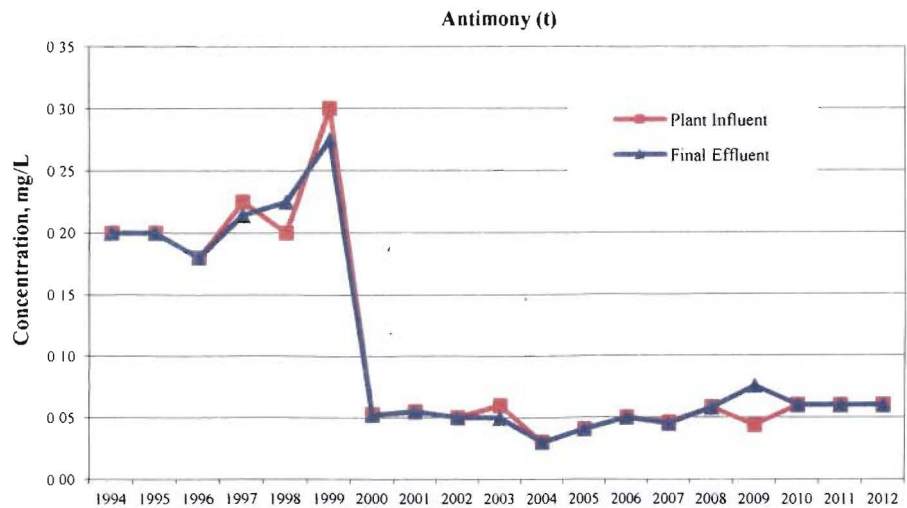
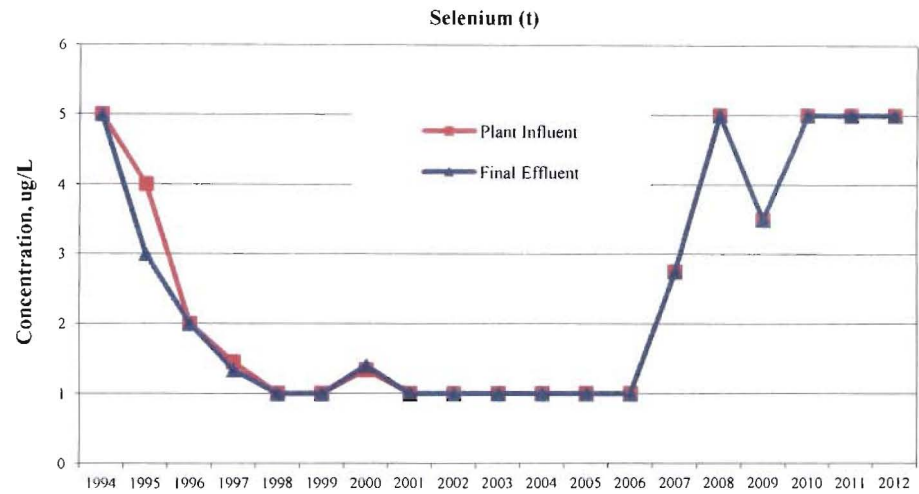
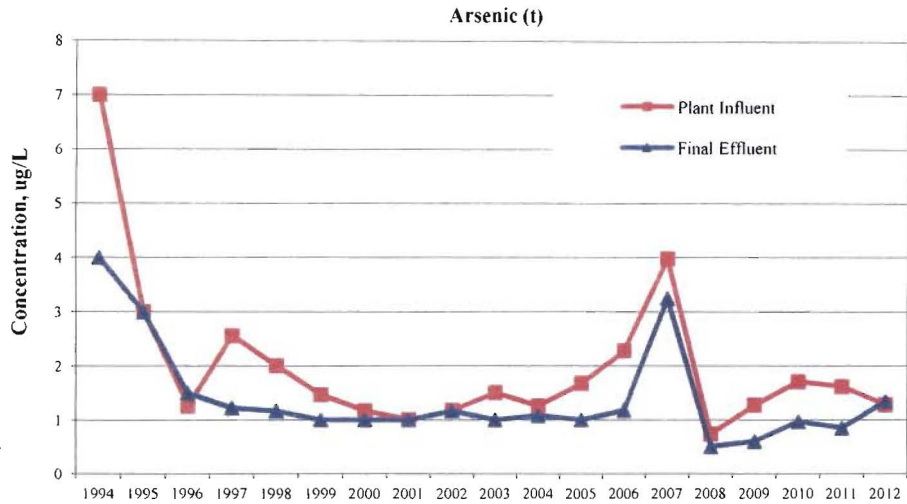
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2012**



	Lead (t)	Zinc(t)	Silver(t)	Mercury(t)
Influent Headworks Limit	50 ug/L	0.36 mg/L	180 ug/L	0.2 ug/L
Effluent Water Quality Criteria	197 ug/L	2.46 mg/L	56 ug/L	0.14 ug/L

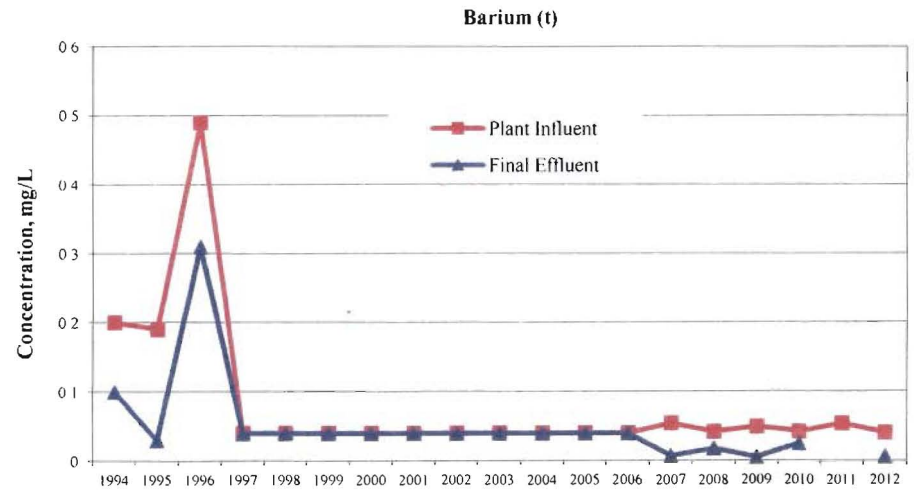
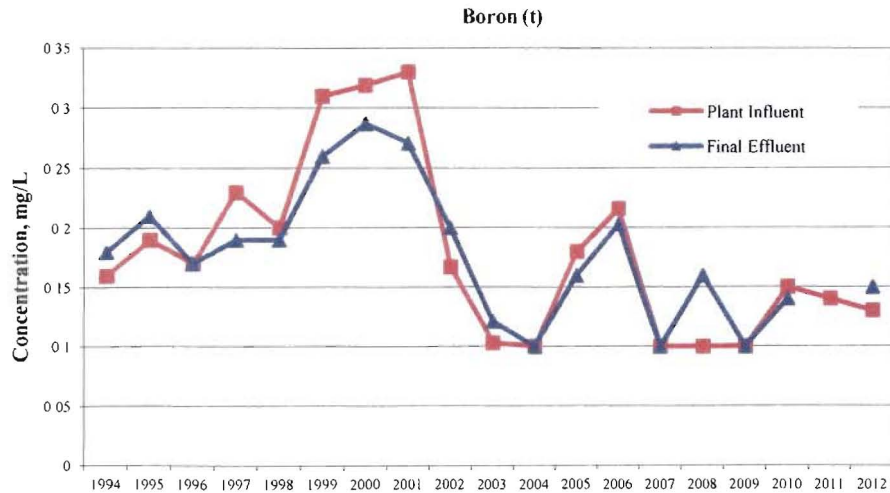
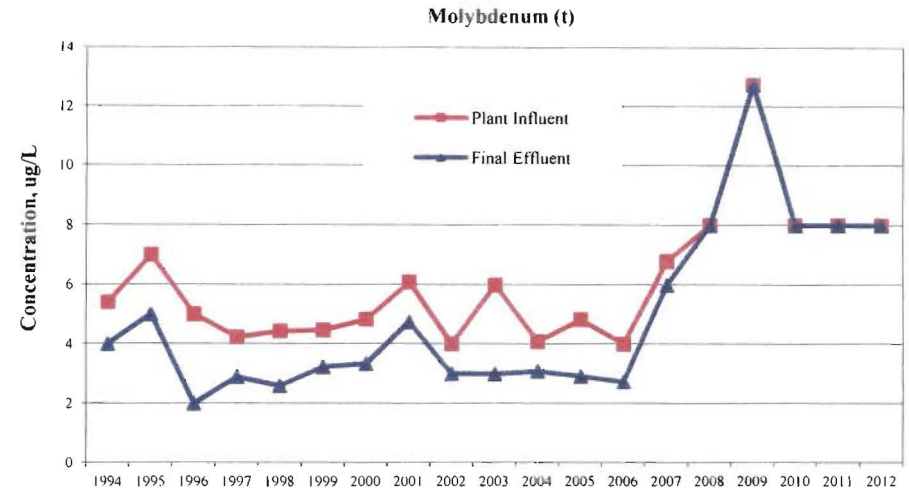
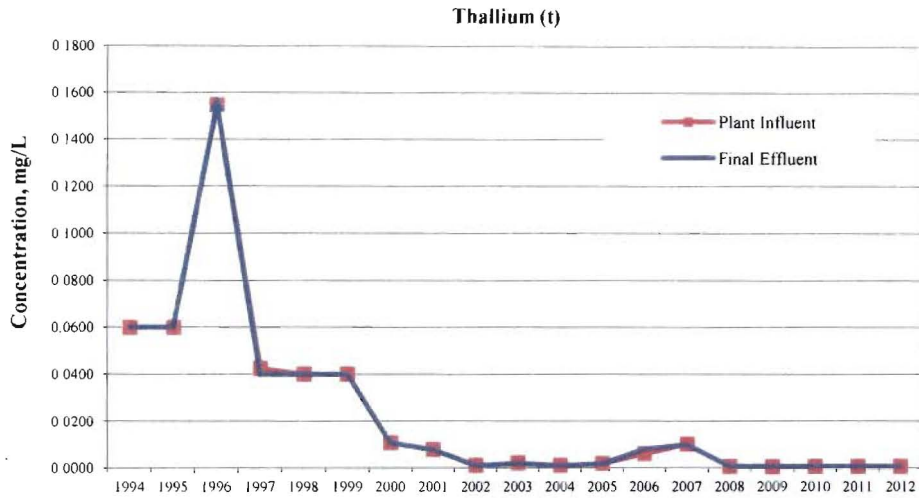
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2012**

March 29, 2013
Page 3 of 5



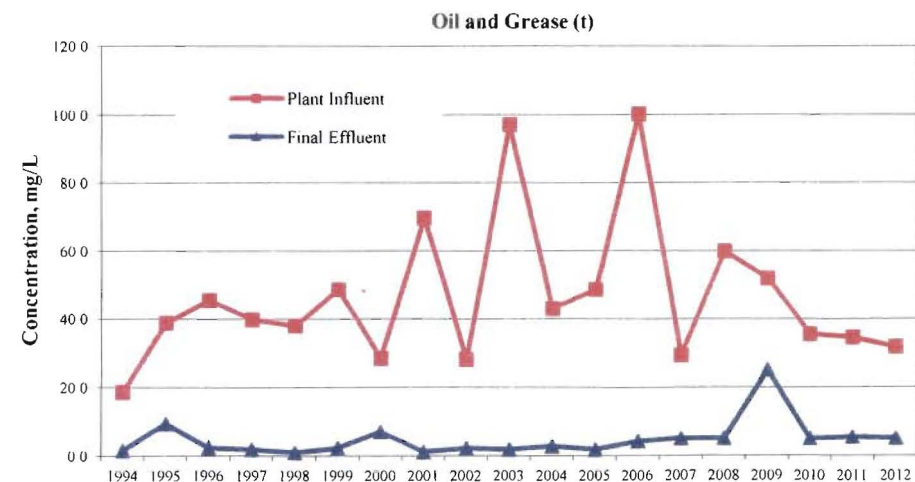
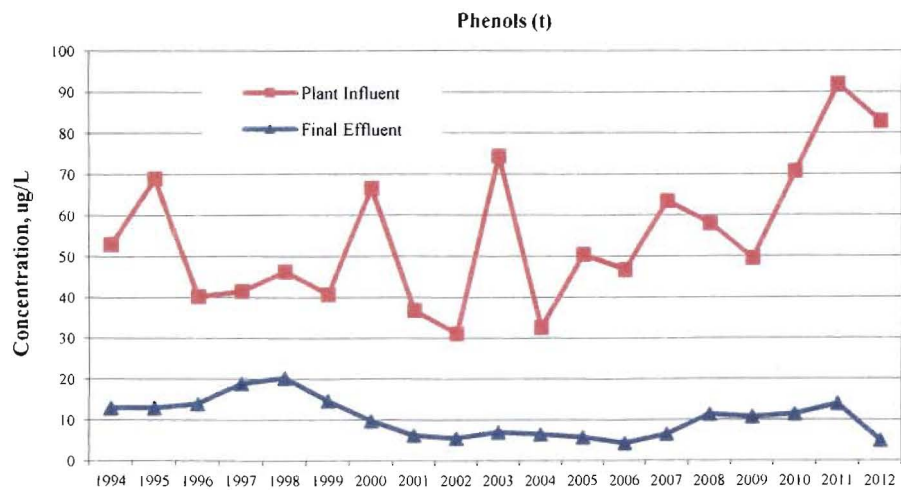
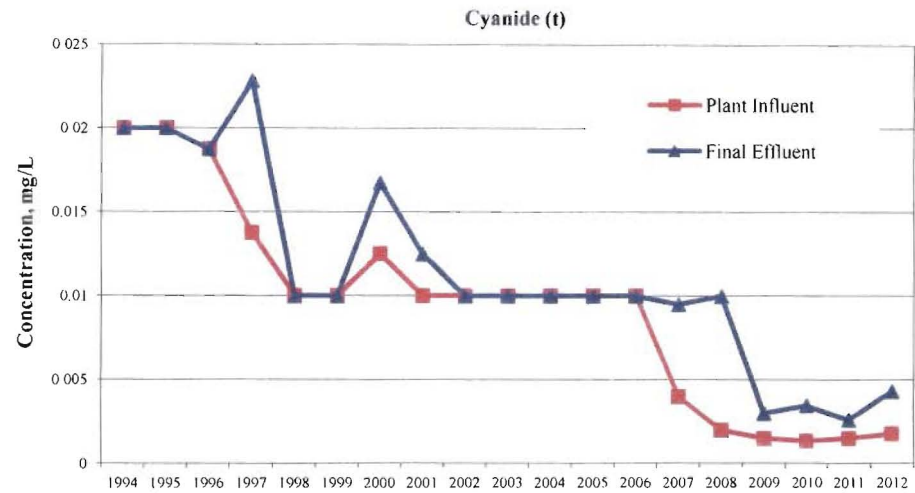
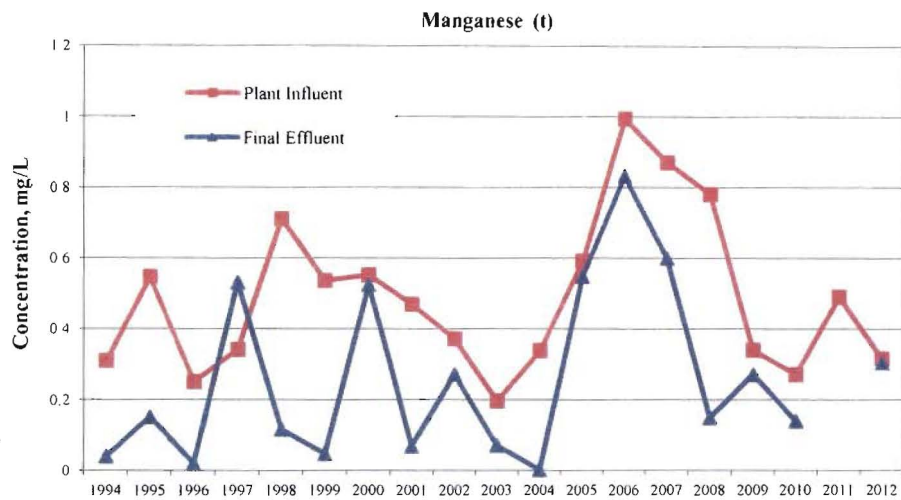
	Arsenic (t)	Antimony (t)	Selenium (t)	Beryllium (t)
Influent Headworks Limit	14 ug/L	None	10 ug/L	None
Effluent Water Quality Criteria	3,440 ug/L	None	56 ug/L	None

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2012**



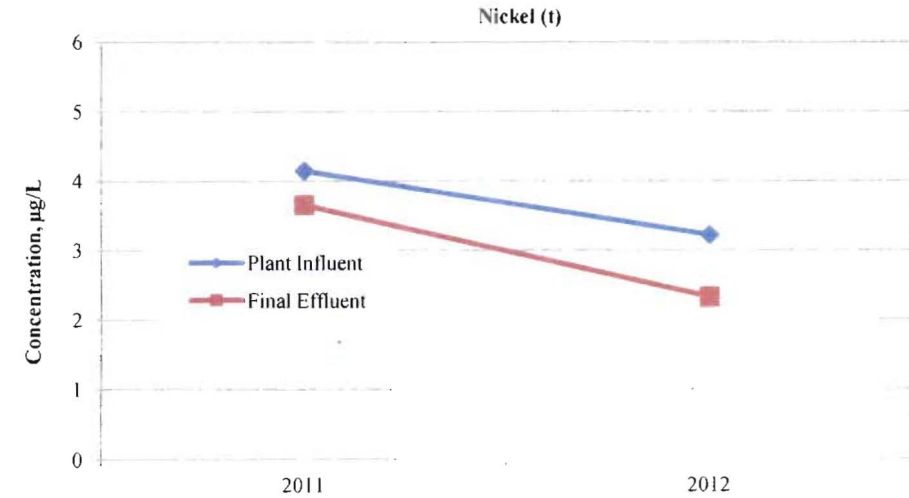
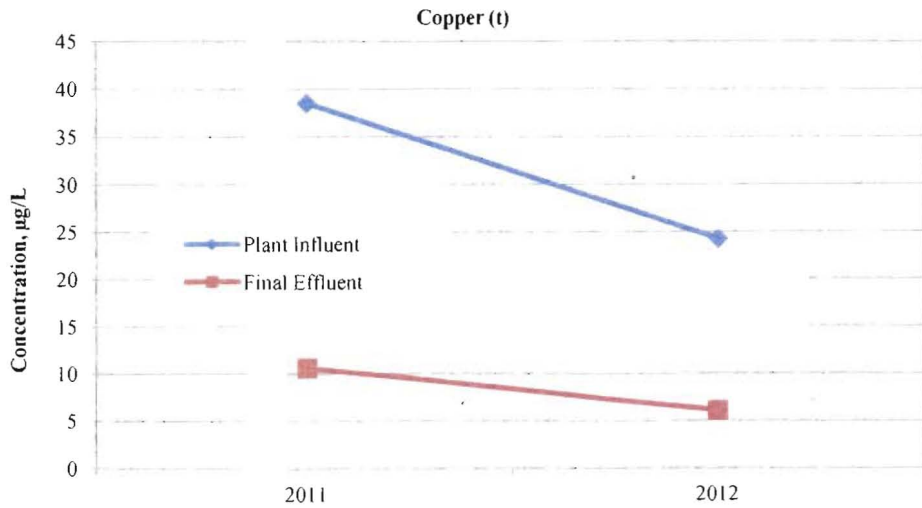
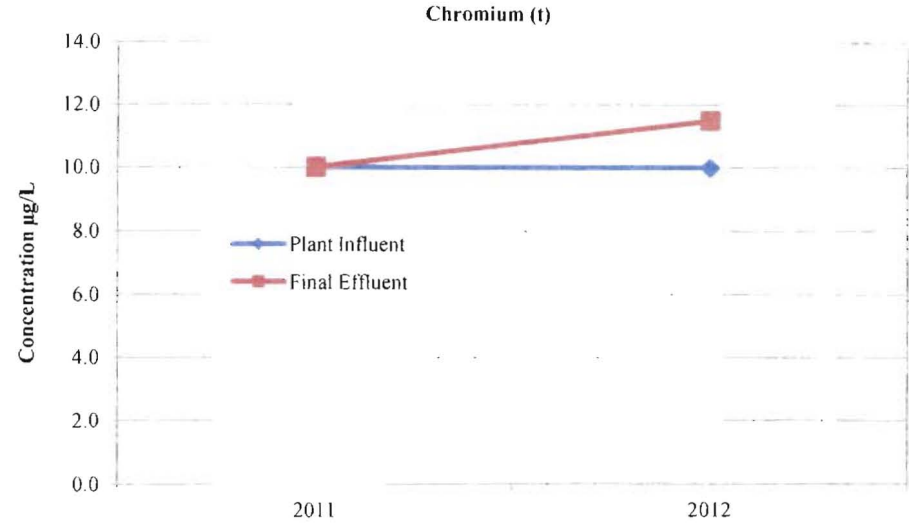
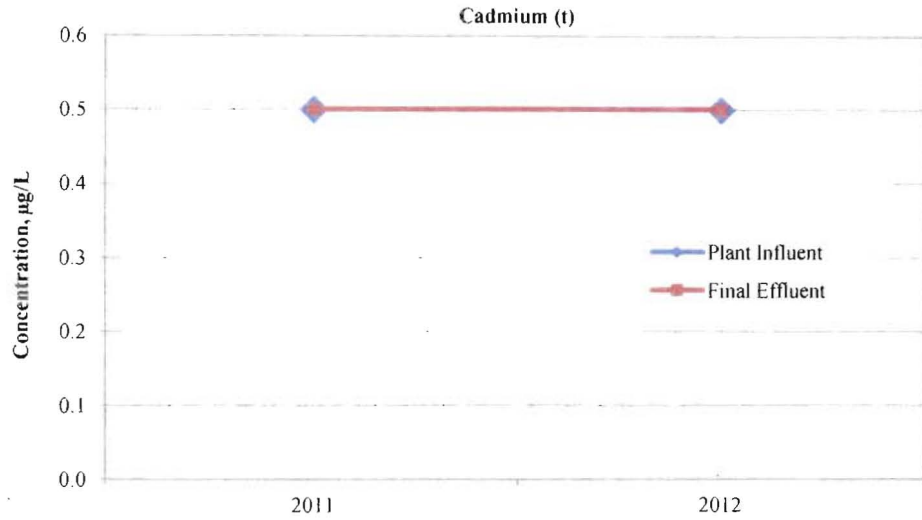
	Thallium (t)	Boron (t)	Molybdenum(t)	Barium(t)
Influent Headworks Limit	None	None	None	None
Effluent Water Quality Criteria	None	None	None	None

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
FOURCHE CREEK TREATMENT PLANT CONCENTRATION TRENDS
1994 THROUGH 2012**



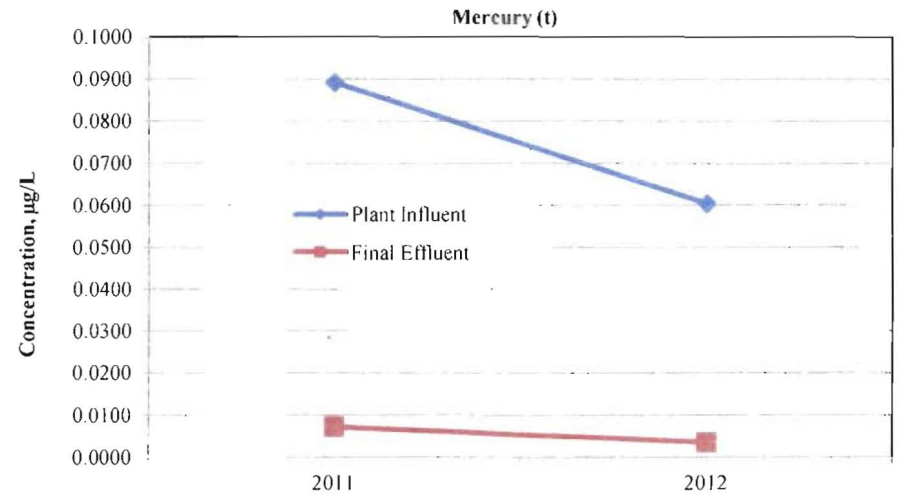
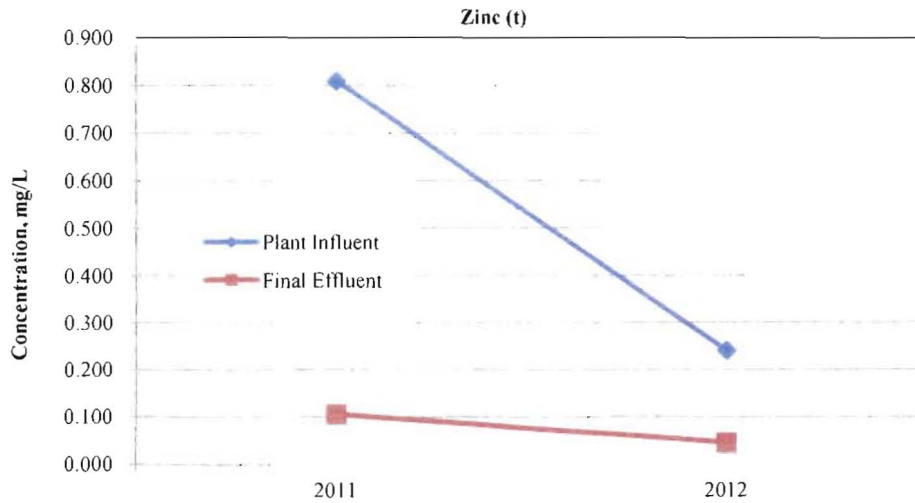
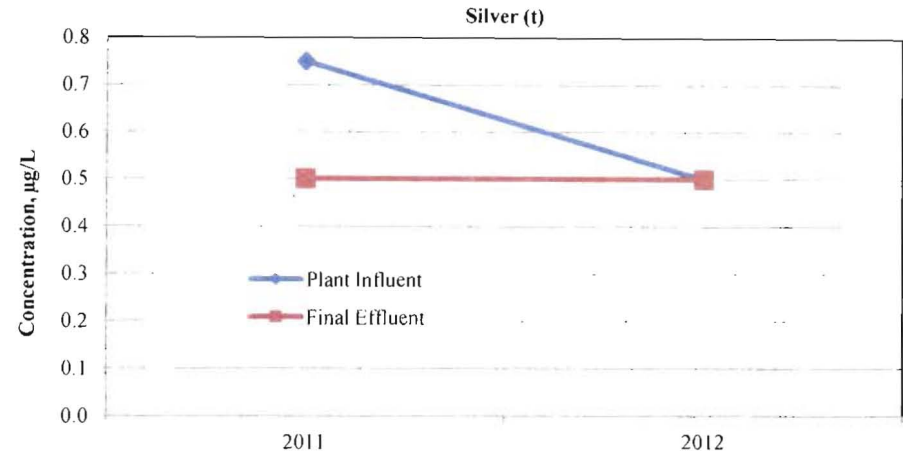
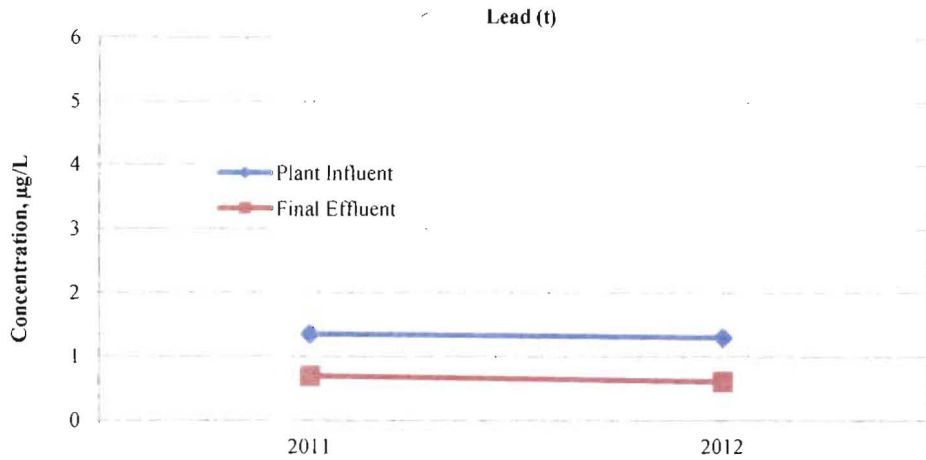
	Manganese (t)	Total Phenols	Cyanide (t)	Oil&Grease
Influent Headworks Limit	None	None	0.09 mg/L	None
Effluent Water Quality Criteria	None	None	0.058 mg/L	None

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
LITTLE MAUMELLE TREATMENT PLANT CONCENTRATION TRENDS
2011 THROUGH 2012**



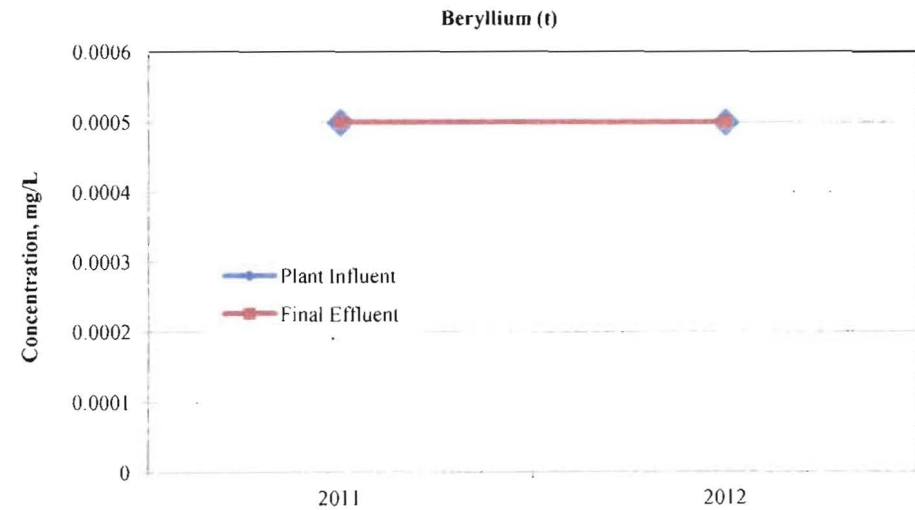
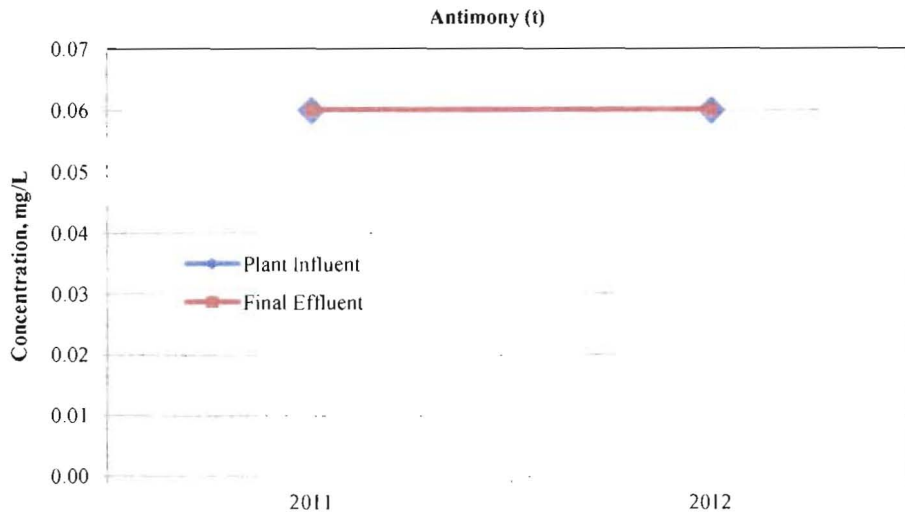
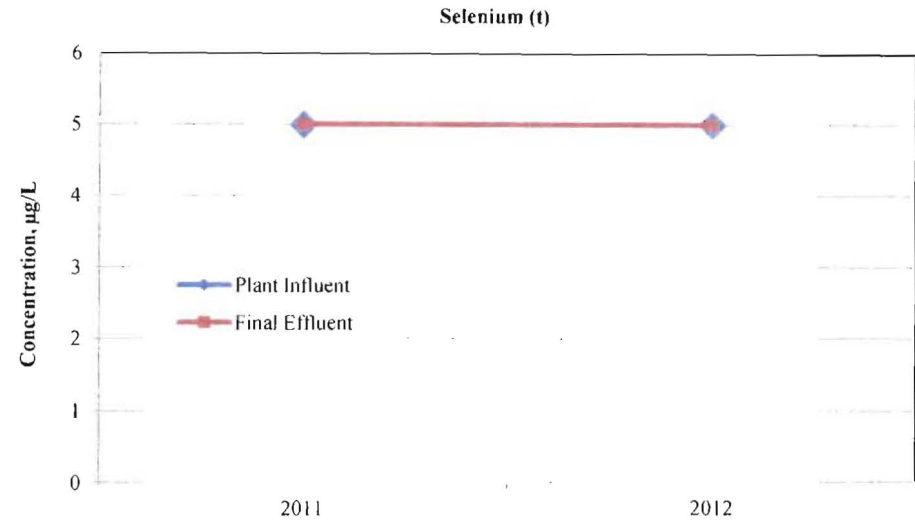
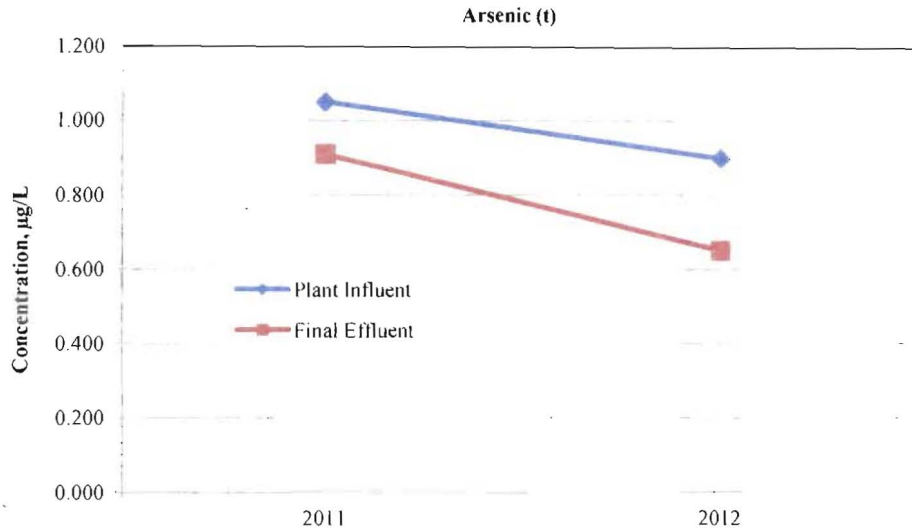
	Cadmium(t)	Copper (t)	Chromium (t)	Nickel(t)
Influent Headworks Limit	9 µg/L	270 µg/L	260 µg/L	160 µg/L
Effluent Water Quality Criteria (Acute)	N/A	N/A	N/A	N/A

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
LITTLE MAUMELLE TREATMENT PLANT CONCENTRATION TRENDS
2011 THROUGH 2012**



	Lead (t)	Zinc(t)	Silver(t)	Mercury(t)
Influent Headworks Limit	50 µg/L	0.36 mg/L	180 µg/L	0.2 µg/L
Effluent Water Quality Criteria (Acute)	N/A	N/A	N/A	N/A

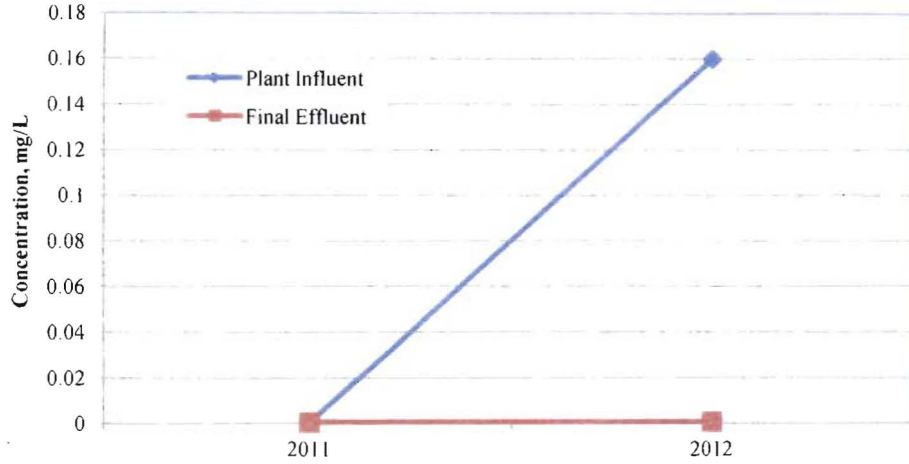
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
LITTLE MAUMELLE TREATMENT PLANT CONCENTRATION TRENDS
2011 THROUGH 2012**



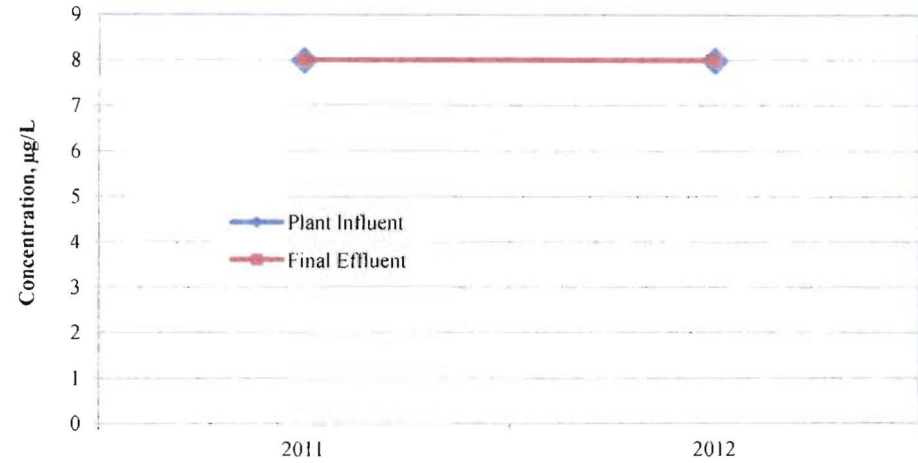
	Arsenic(t)	Antimony (t)	Selenium (t)	Beryllium (t)
Influent Headworks Limit	14 ug/L	None	10 ug/L	None
Effluent Water Quality Criteria (Acute)	N/A	N/A	N/A	N/A

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
LITTLE MAUMELLE TREATMENT PLANT CONCENTRATION TRENDS
2011 THROUGH 2012**

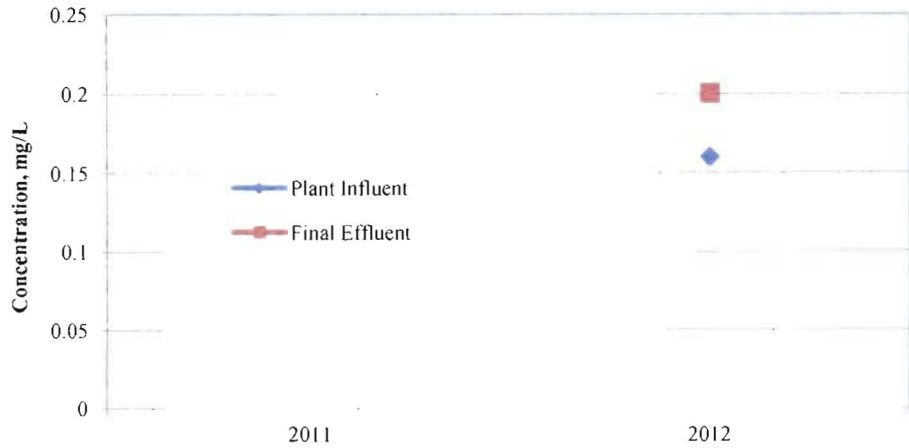
Thallium (t)



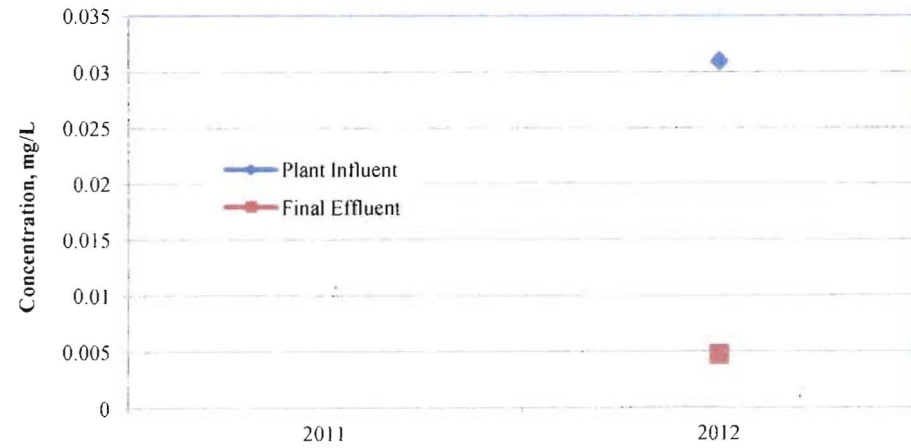
Molybdenum (t)



Boron (t)



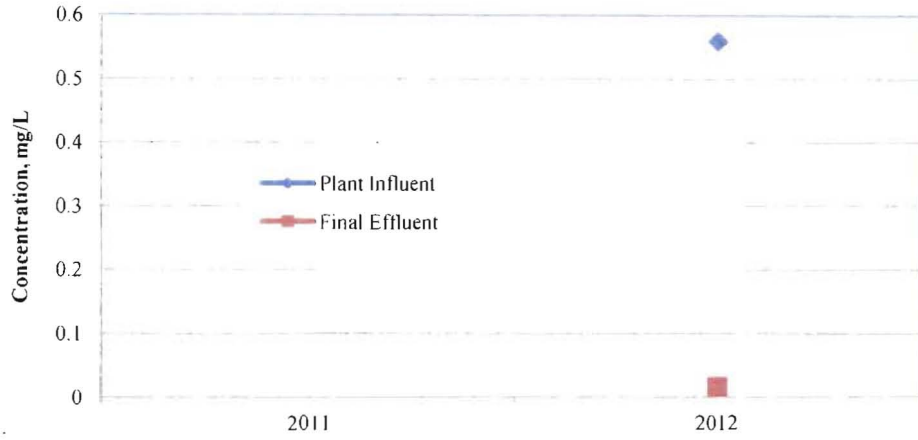
Barium (t)



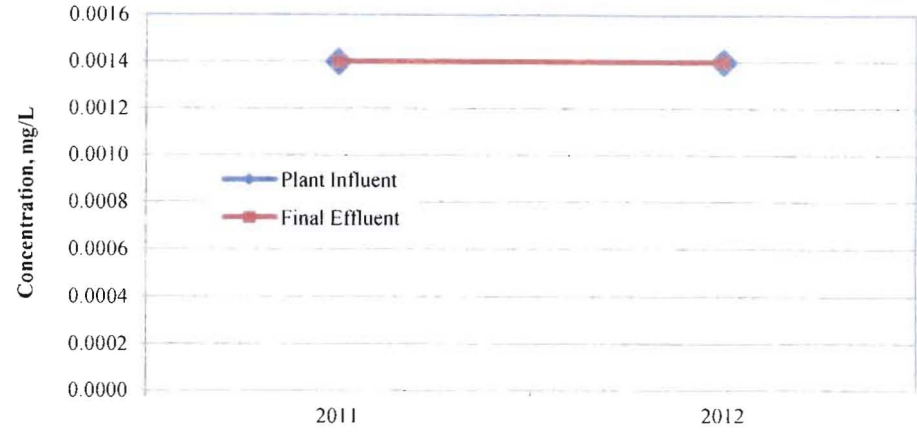
	Thallium (t)	Boron (t)	Molybdenum(t)	Barium(t)
Influent Headworks Limit	None	None	None	None
Effluent Water Quality Criteria (Acute)	N/A	N/A	N/A	N/A

**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
LITTLE MAUMELLE TREATMENT PLANT CONCENTRATION TRENDS
2011 THROUGH 2012**

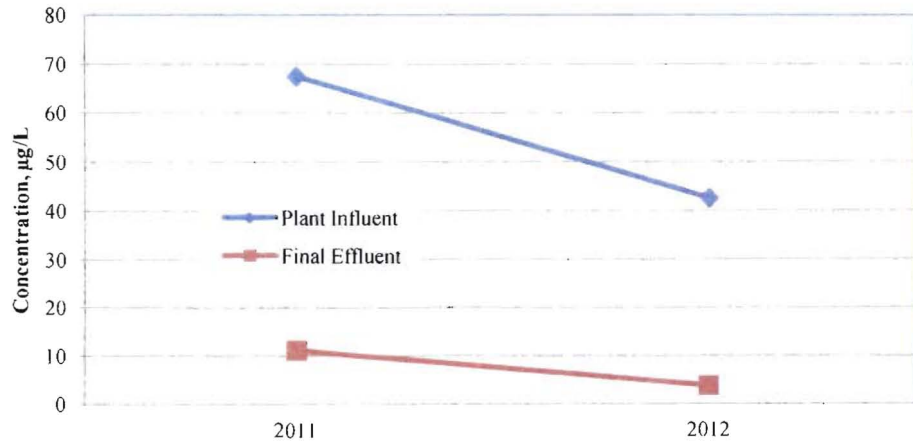
Manganese (t)



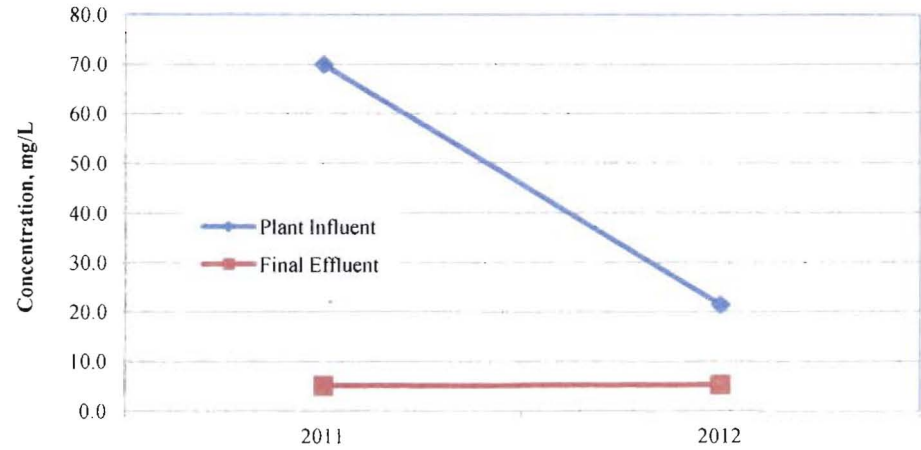
Cyanide (t)



Total Phenolics



Oil and Grease



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

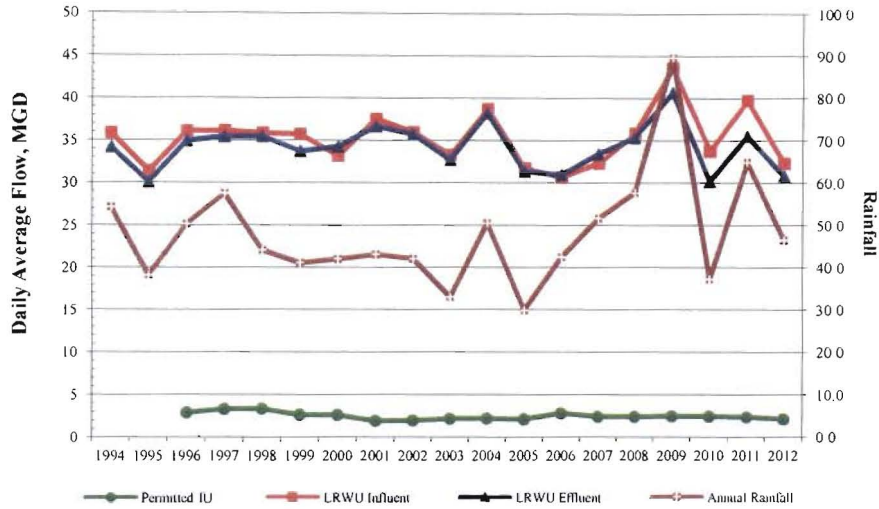
SUMMARY OF LOADING TRENDS

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 line in 2011 and is included on the charts beginning 2011. The charts are organized in the following order:

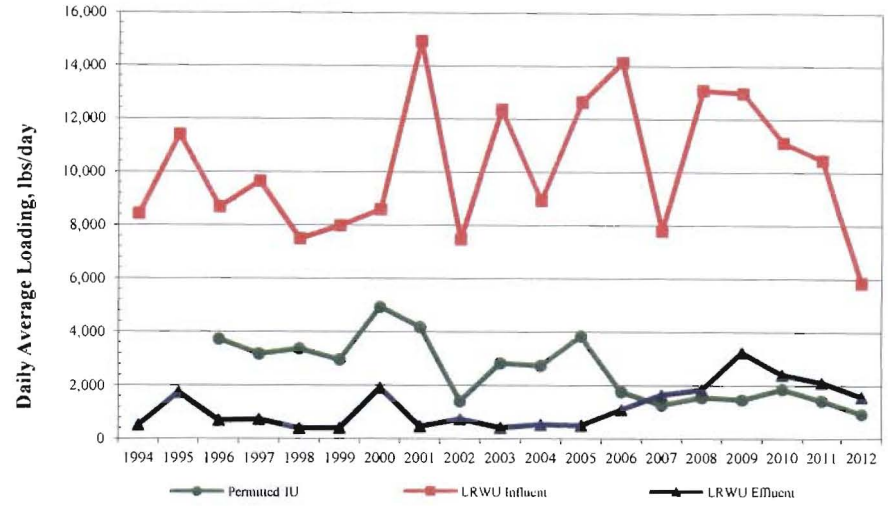
- Total System Loading Trends - These charts show 1994 - 2012 loading, lbs/day, for the total cumulative influent/effluent loading for the AF-WWTP, FC-WWTP, and LM-WWTP. The cumulative loading from permitted IU's is also included. Parameters include flow, BOD, TSS, O&G and local limit pollutant parameters. The BOD trend does not include LM-WWTP data since the NPDES Permit is for CBOD. 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 - 2012 - These charts show IU percent contributions to the LRW system starting 1996 to date. When test results (IU and LRW) are reported as less than detection or reporting limit, the detection limit value is used to total lbs calculations.
- POTW Loading Trends - Influent/Effluent Loading, lbs/day, comparison charts were developed for the AF-WWTP and FC-WWTP for 1994 - 2012. LM-WWTP loading data (lbs/day) for 2011 and 2012 was added to the comparison charts (except for BOD). 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
LRW TOTAL SYSTEM LOADING TRENDS**

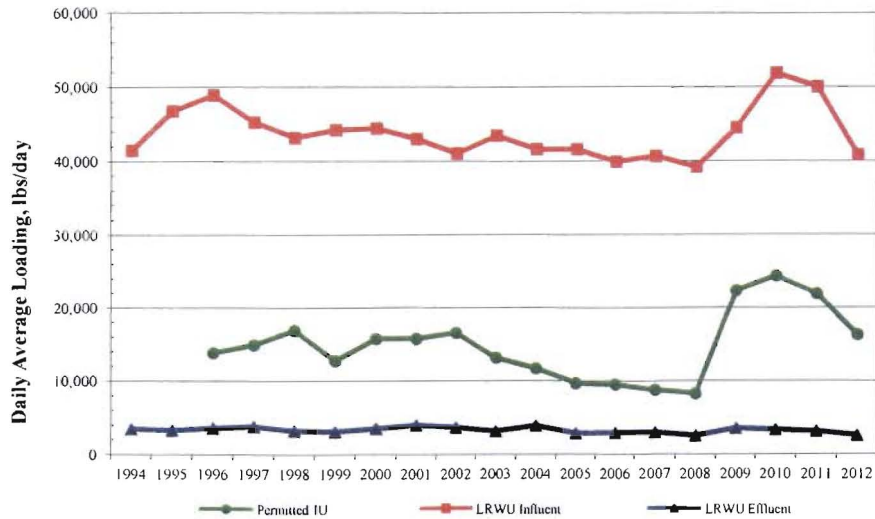
Hydraulic



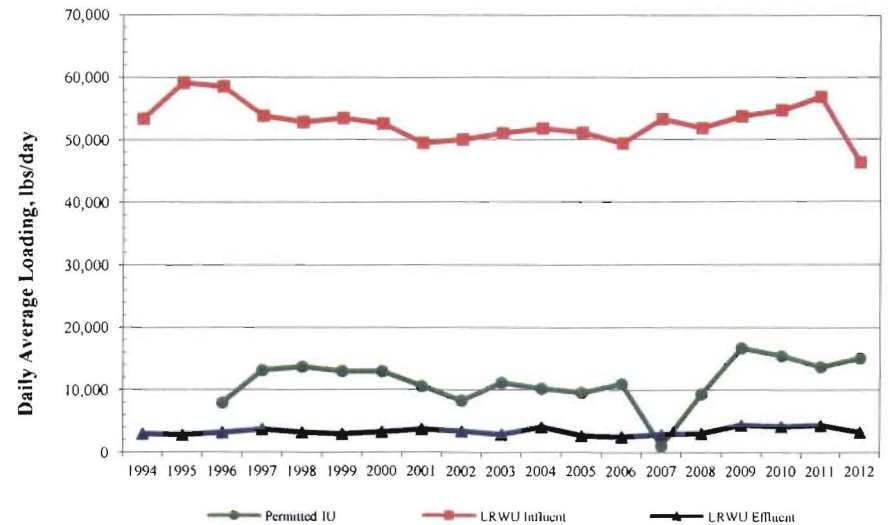
Oil & Grease



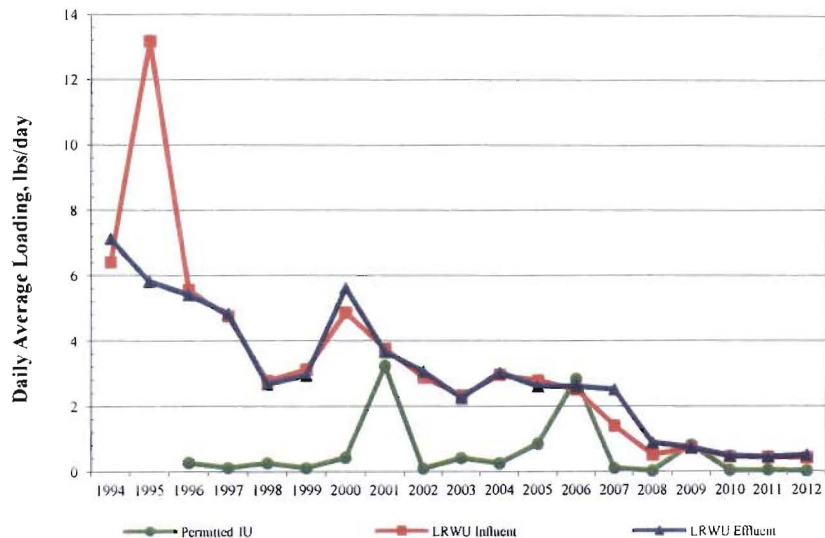
BOD₅



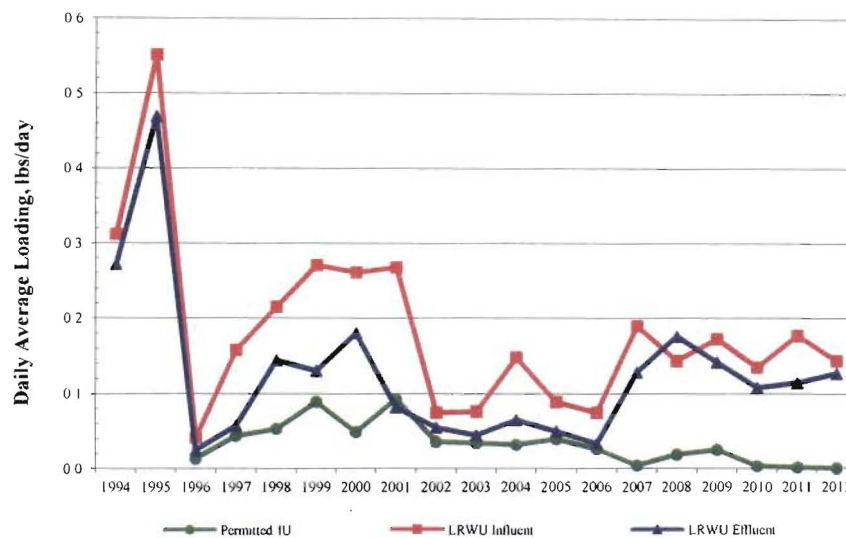
TSS



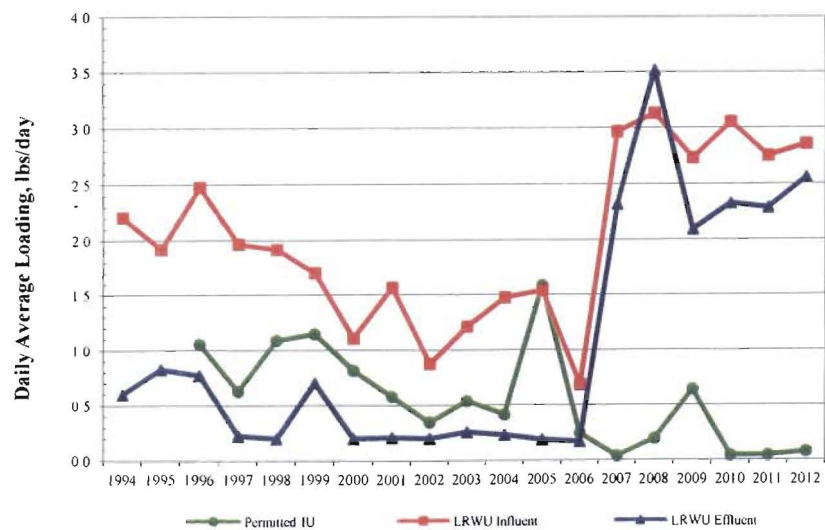
Cyanide (t)



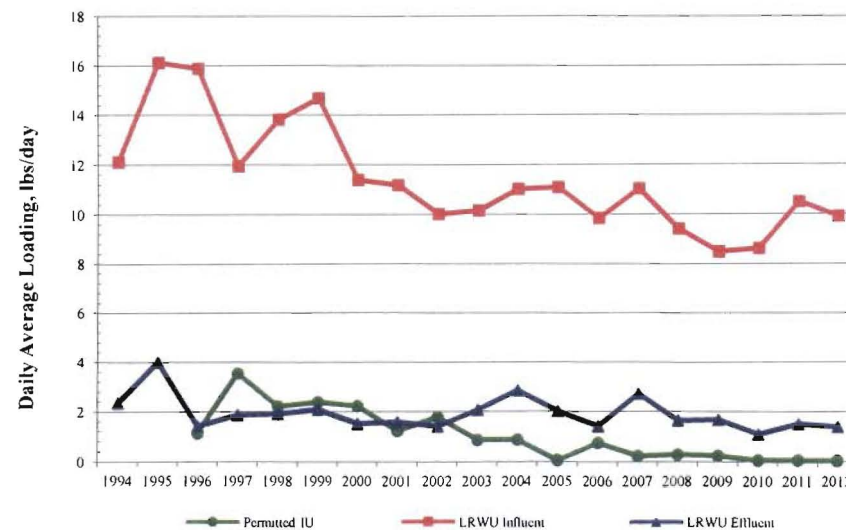
Cadmium (t)



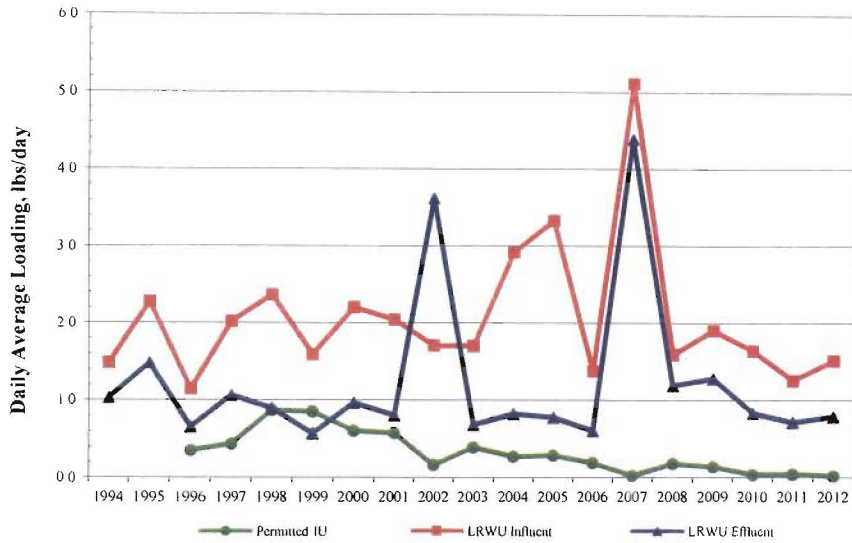
Chromium (t)



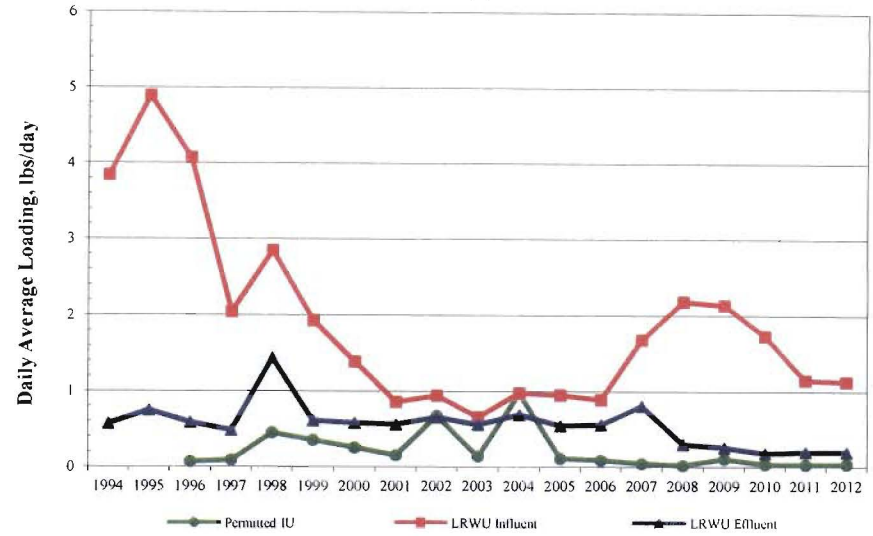
Copper (t)



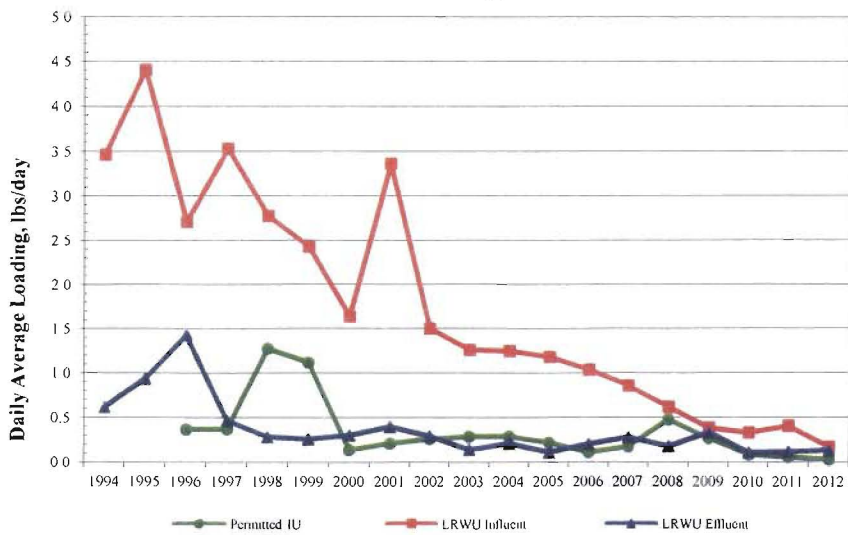
Nickel (t)



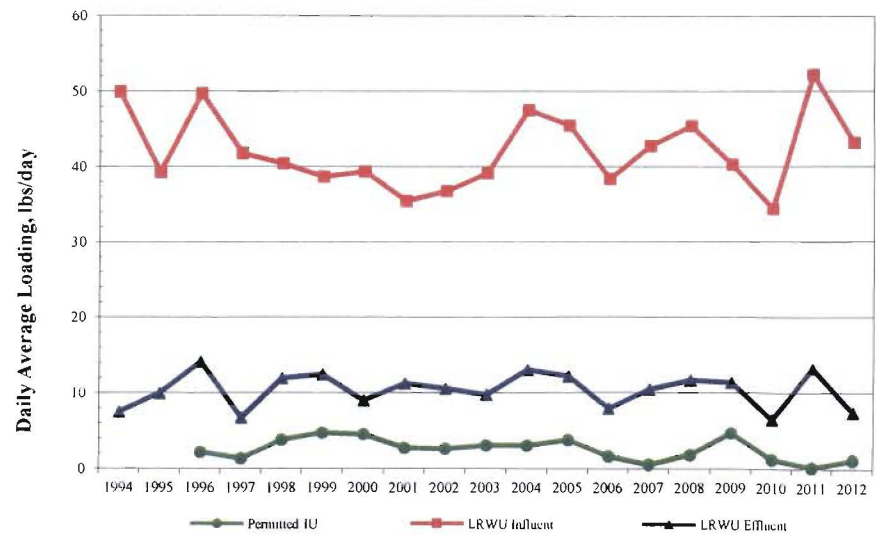
Lead (t)



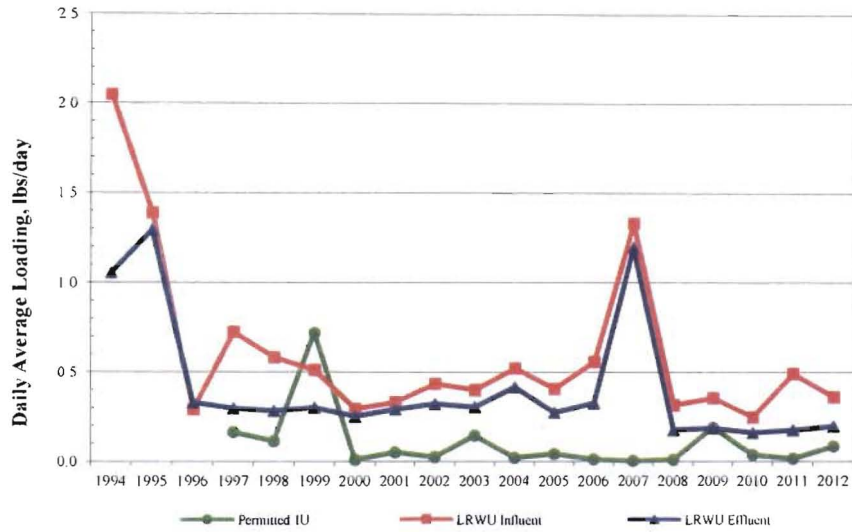
Silver (t)



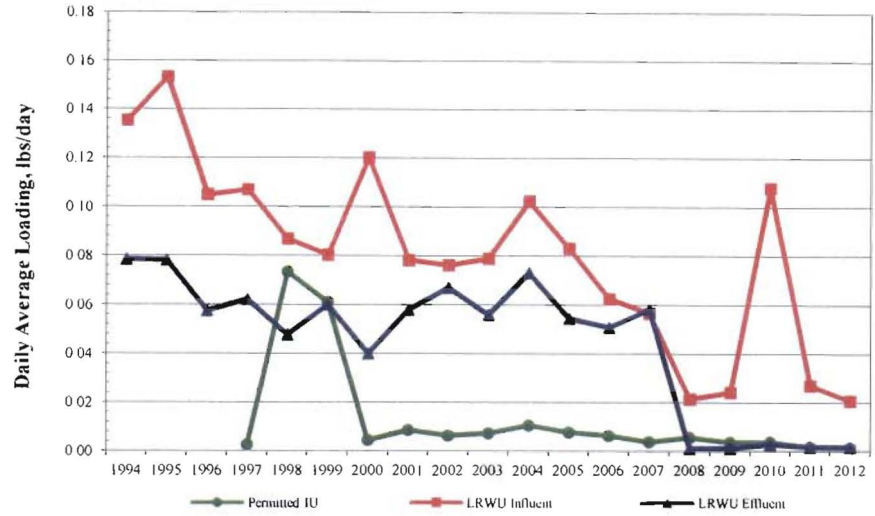
Zinc (t)



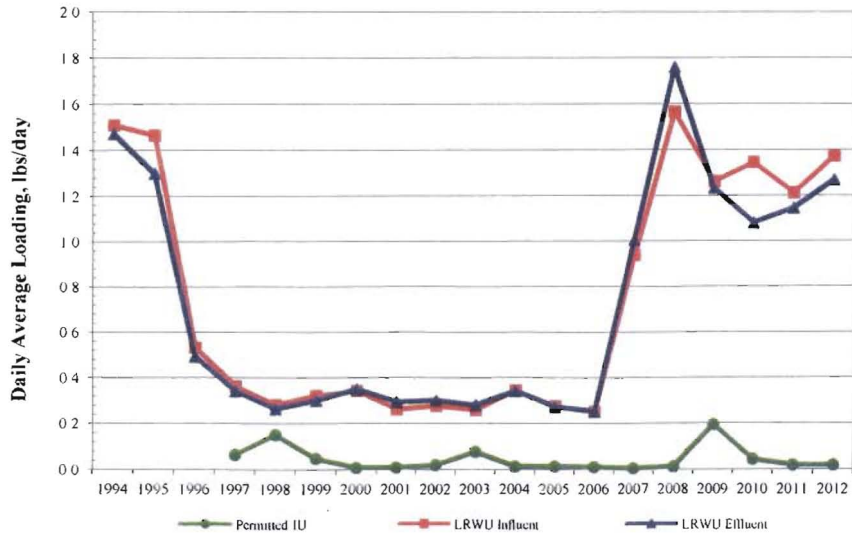
Arsenic (t)



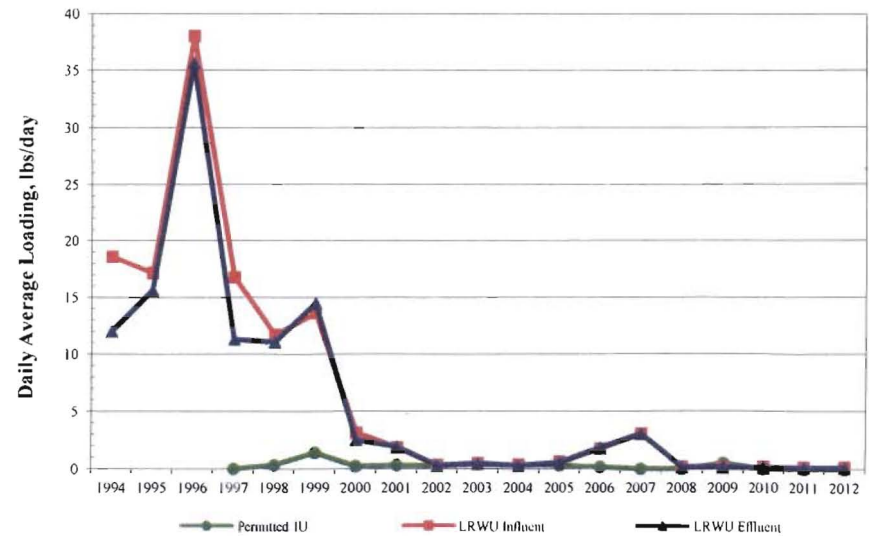
Mercury (t)



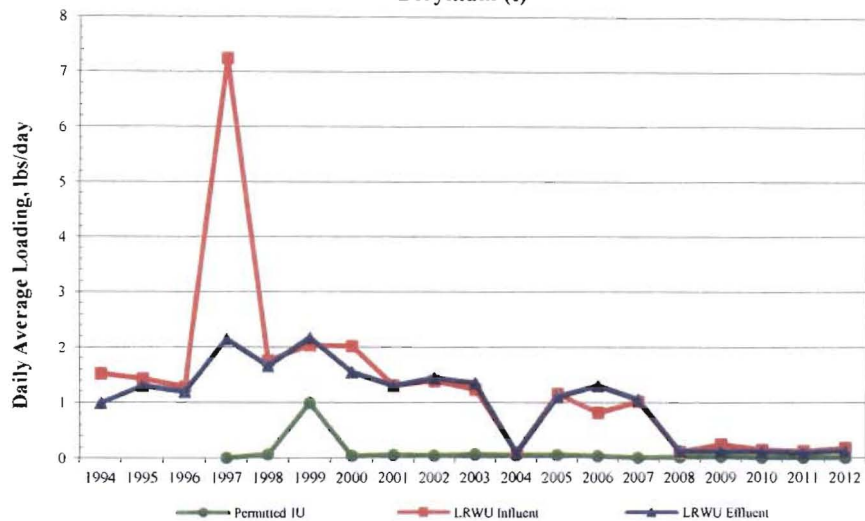
Selenium (t)



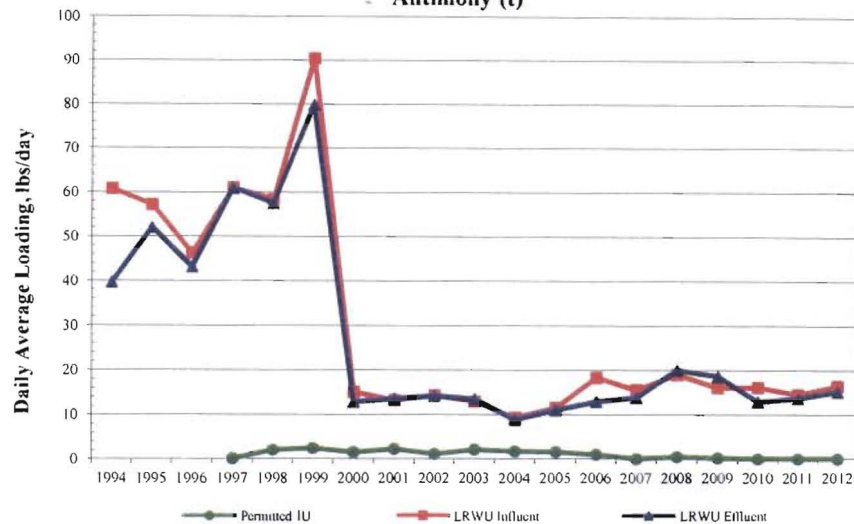
Thallium (t)



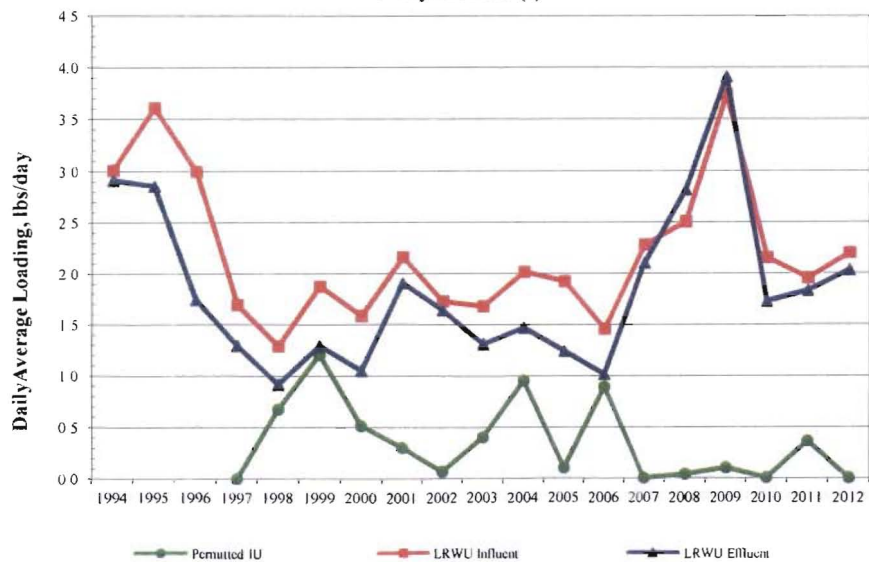
Beryllium (t)



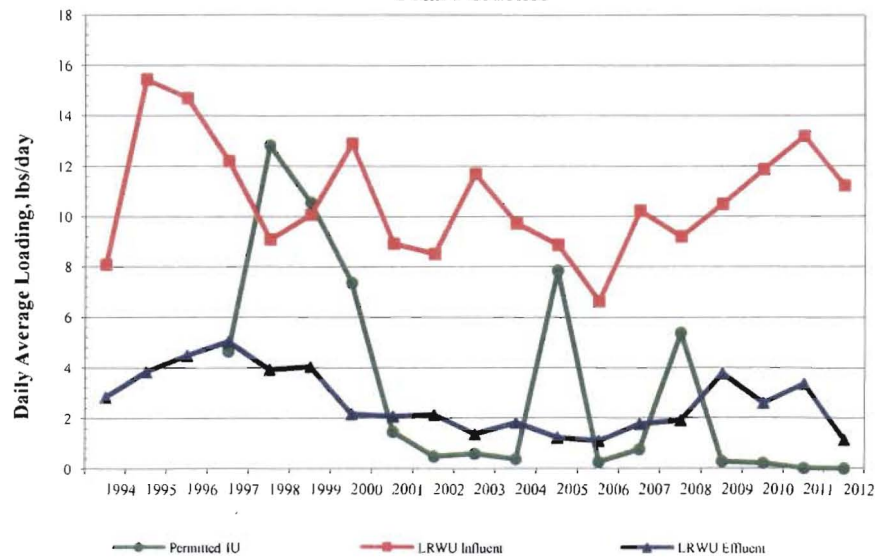
Antimony (t)



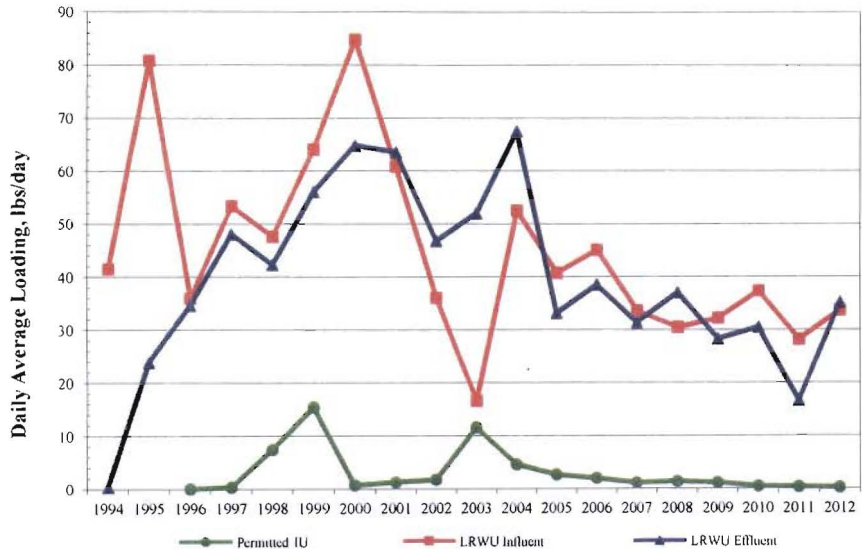
Molybdenum (t)



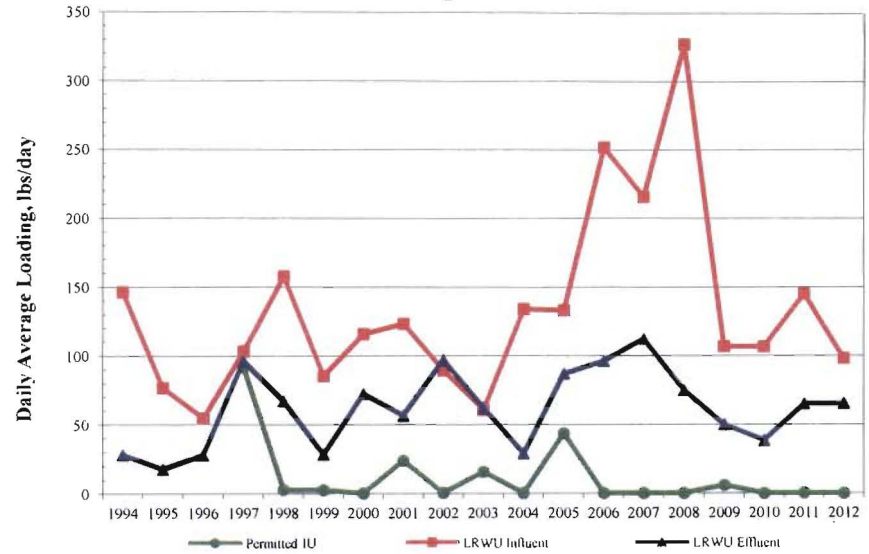
Total Phenolics



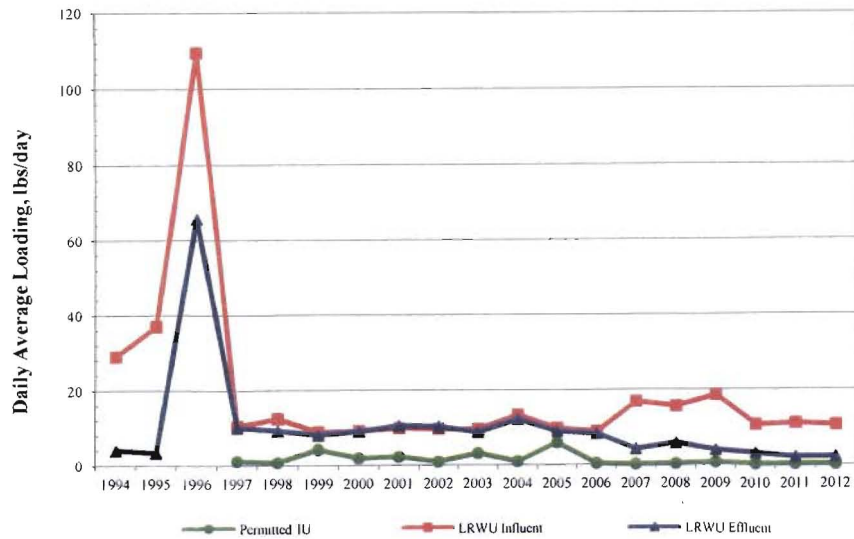
Boron (t)



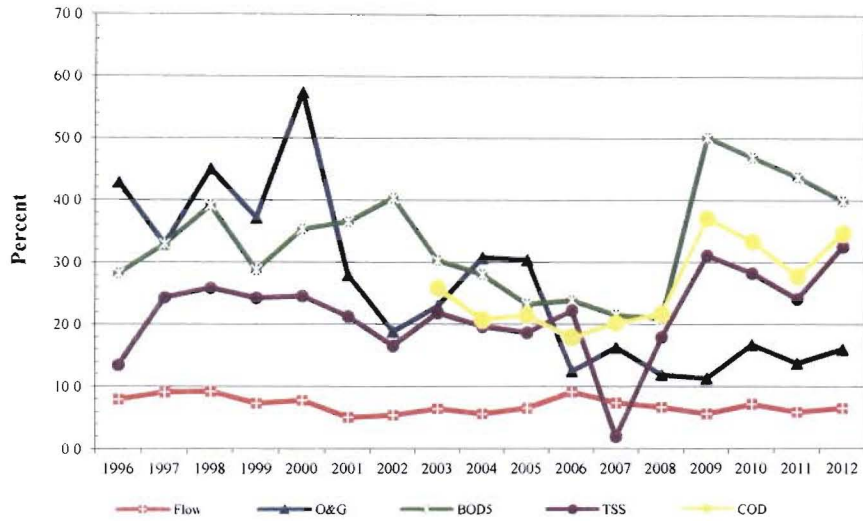
Manganese (t)



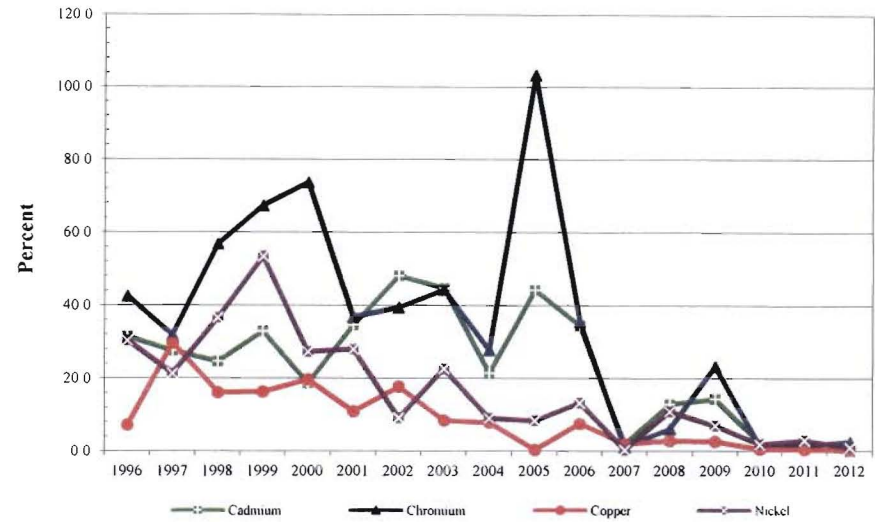
Barium (t)



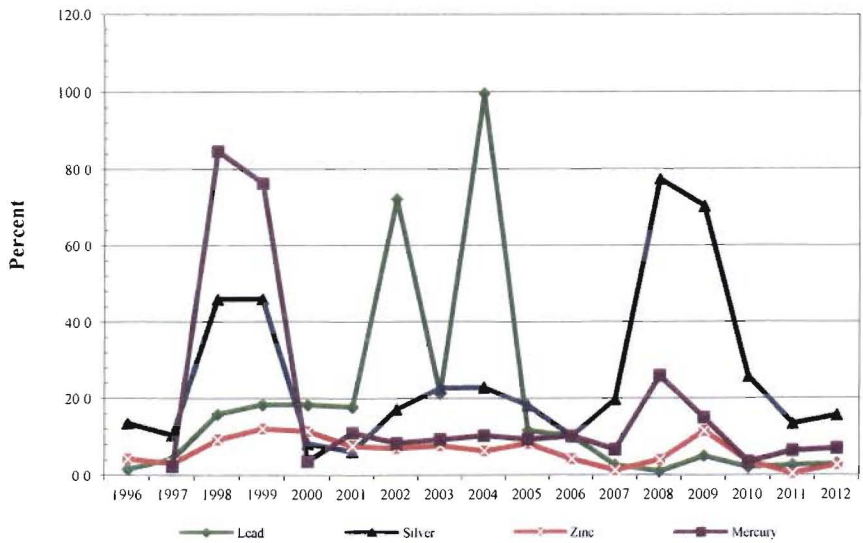
IU % Contributions



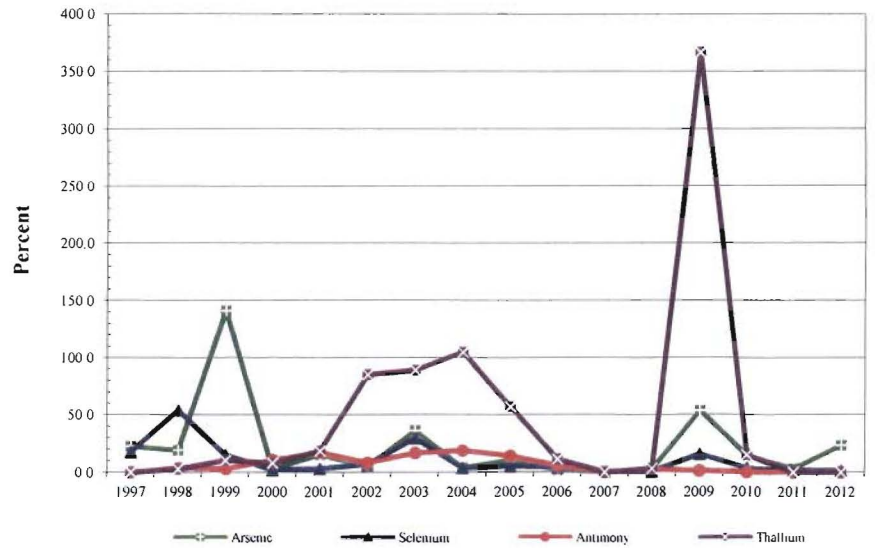
IU % Contributions



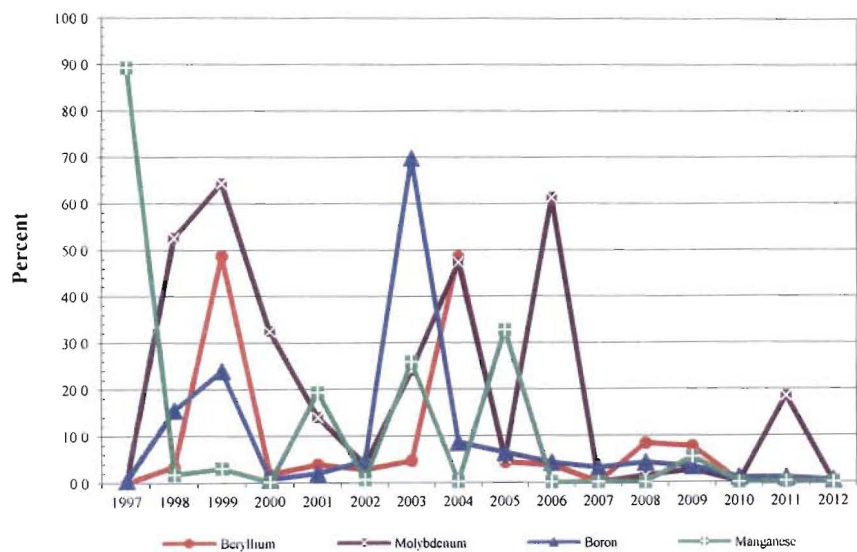
IU % Contributions



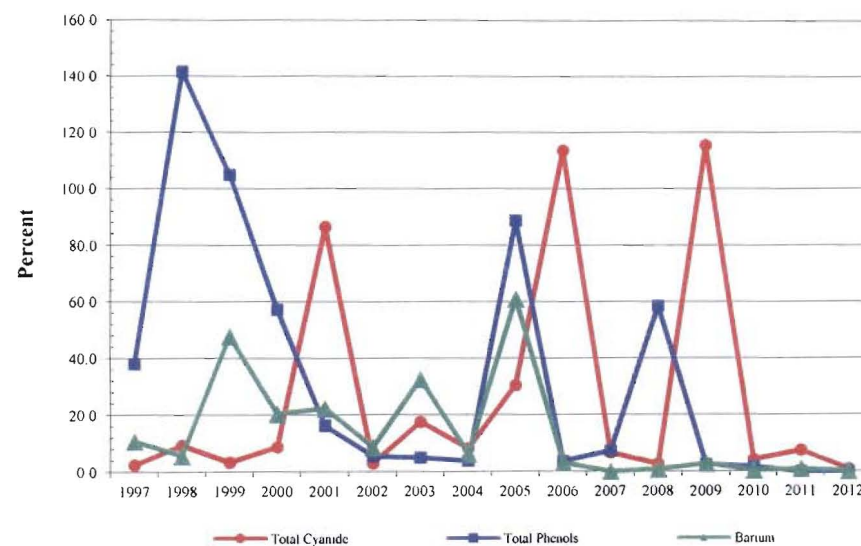
IU % Contributions



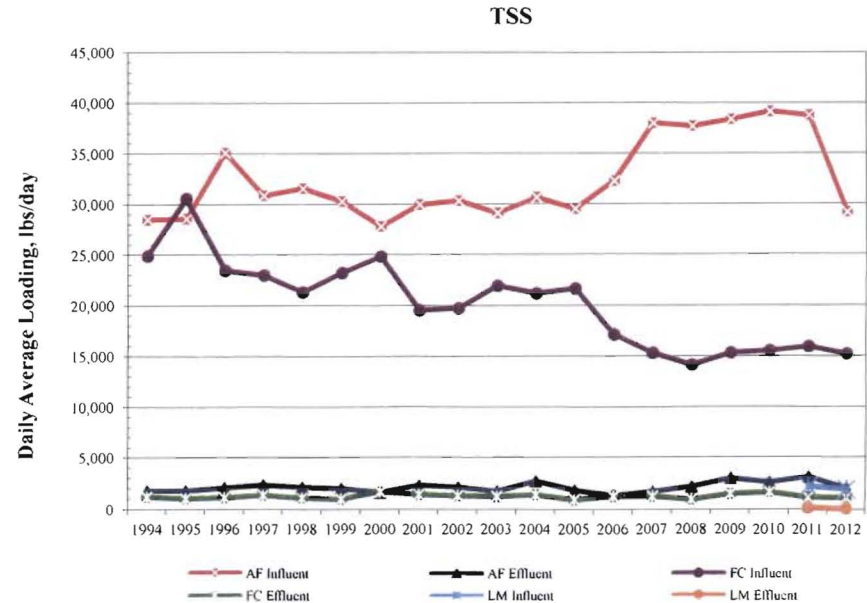
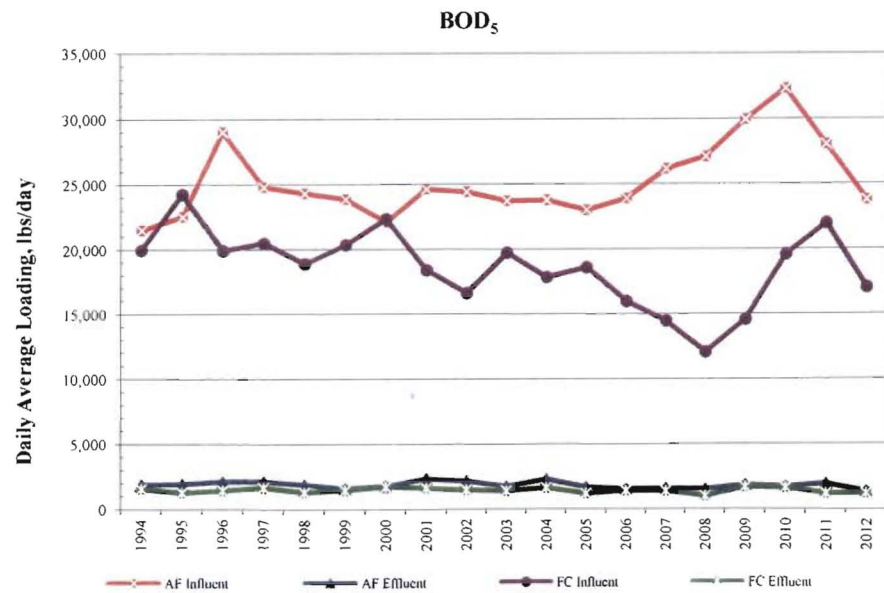
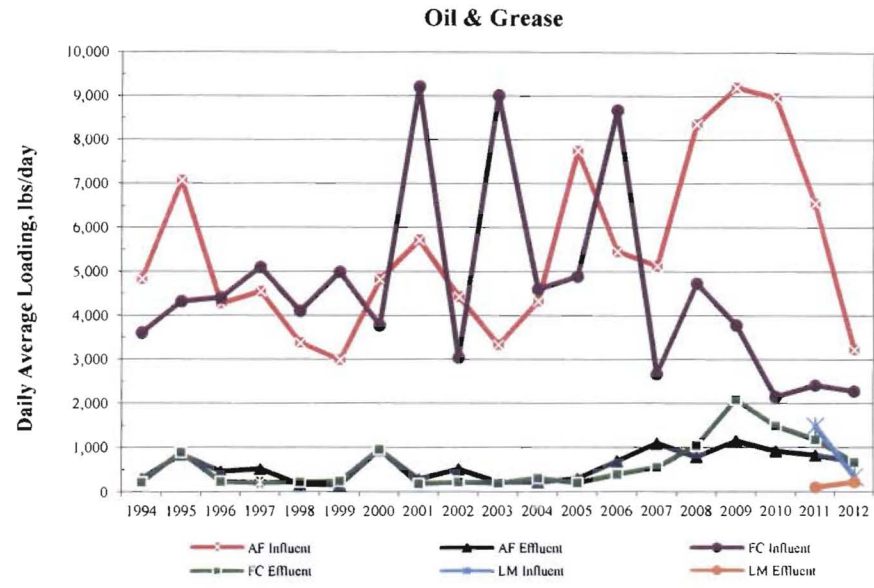
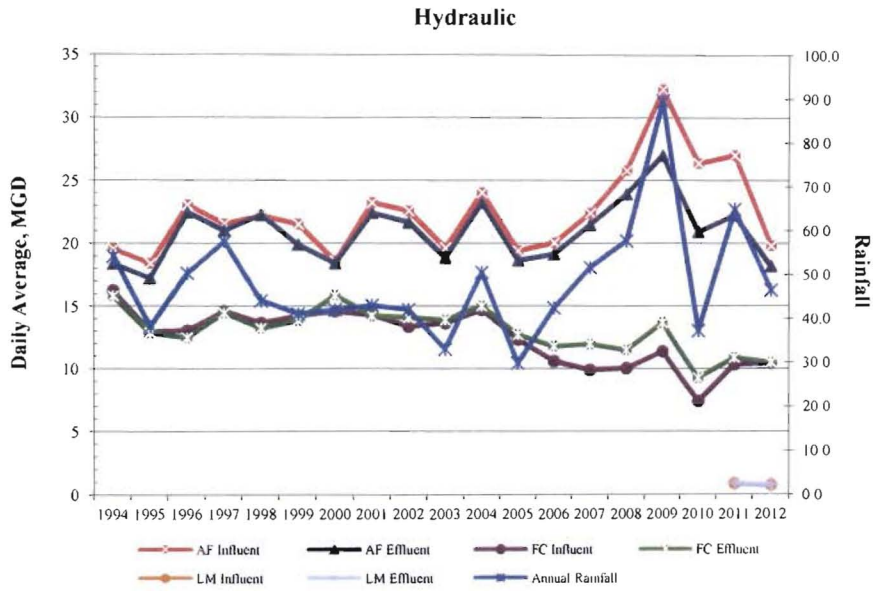
IU % Contributions



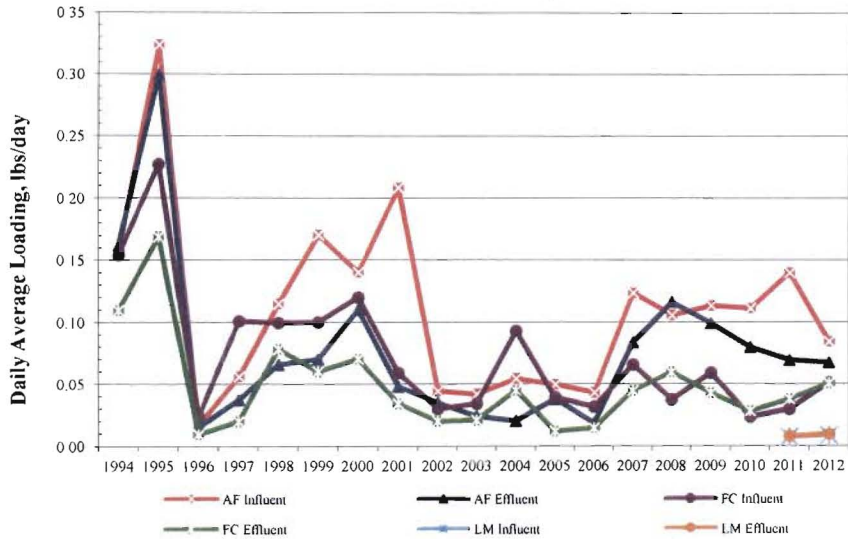
IU % Contributions



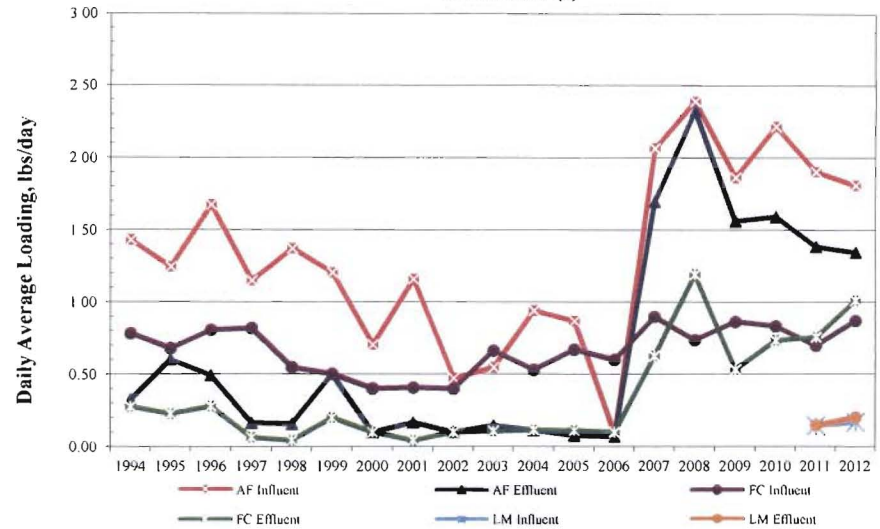
**LITTLE ROCK WASTEWATER
ENVIRONMENTAL ASSESSMENT DIVISION
POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS**



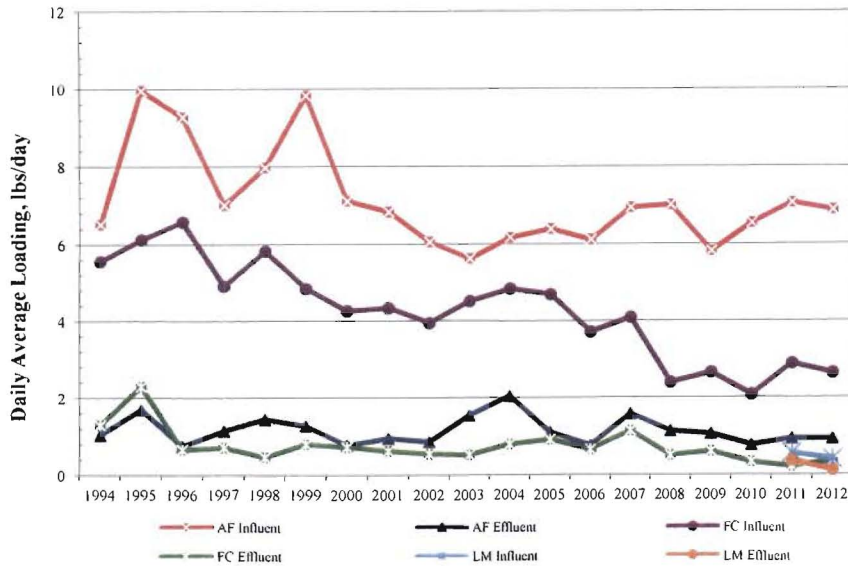
Cadmium (t)



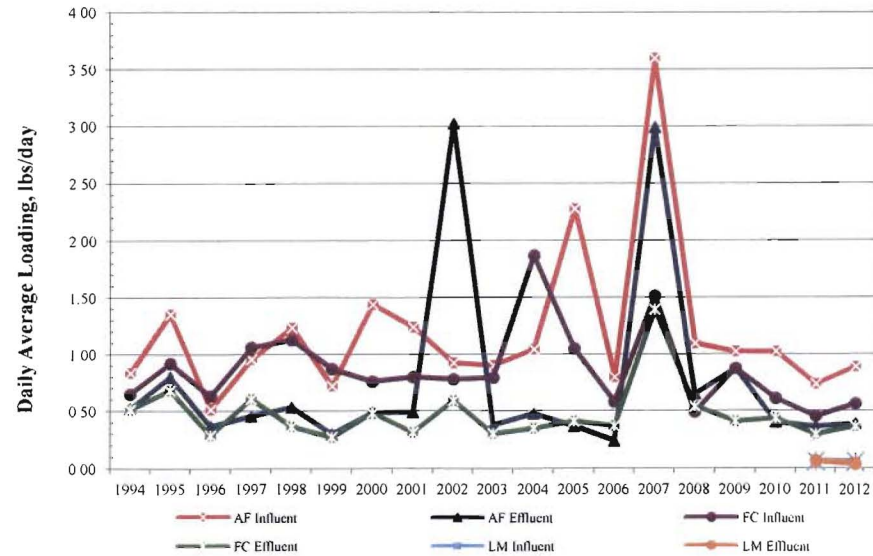
Chromium (t)



Copper (t)

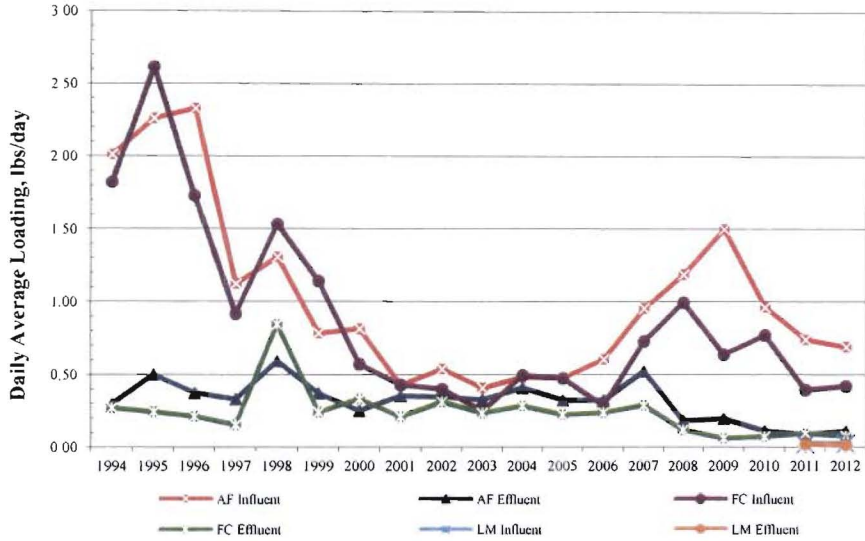


Nickel (t)

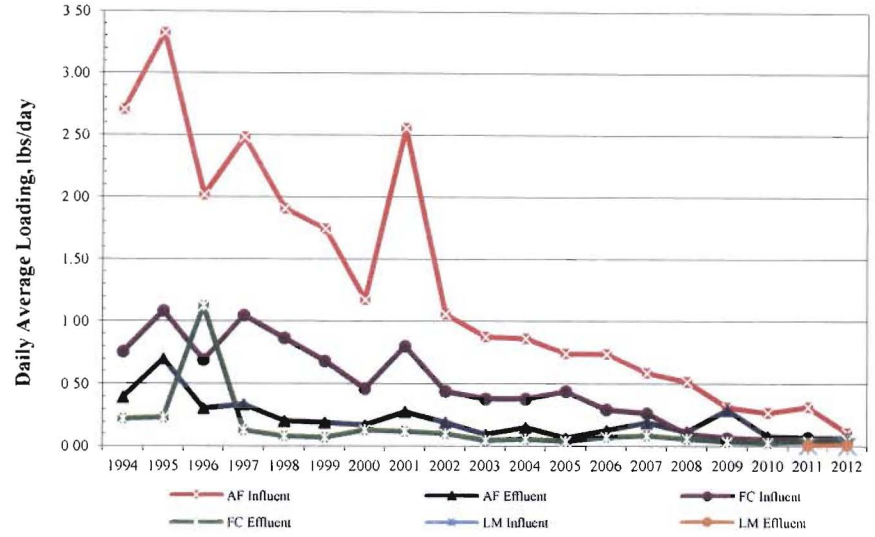


LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS

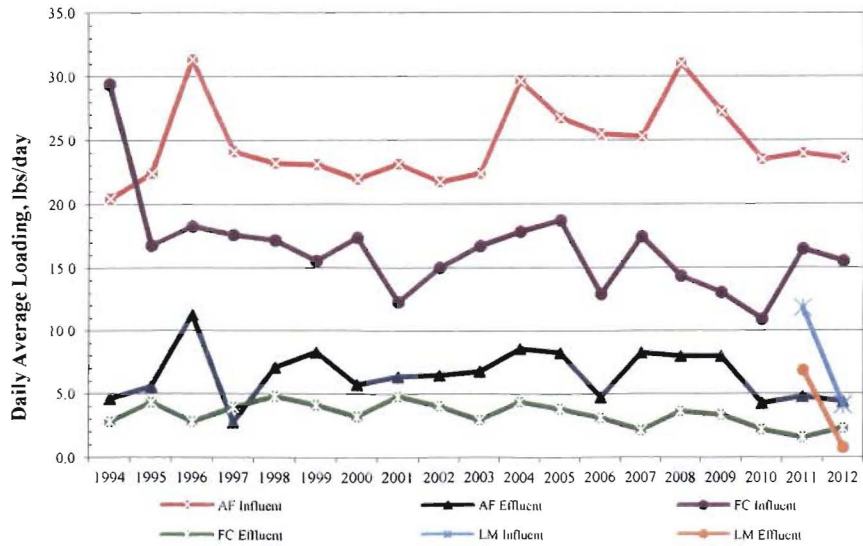
Lead (t)



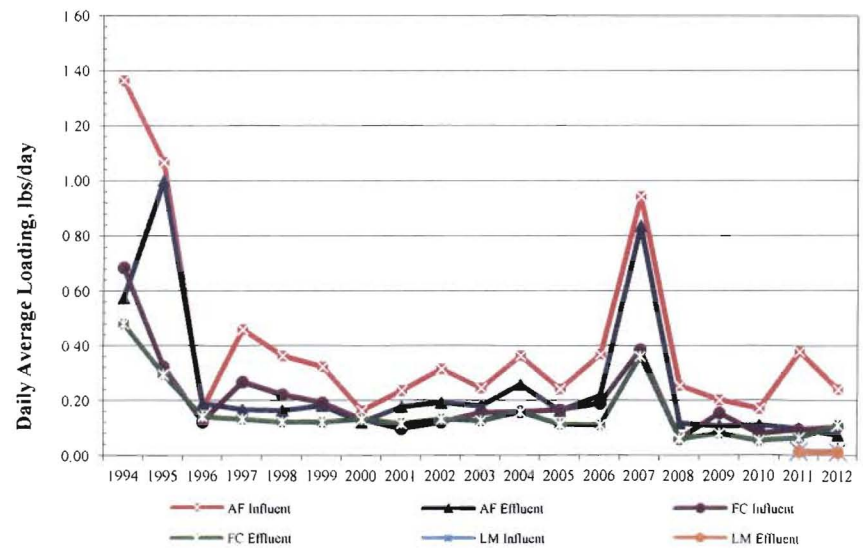
Silver (t)



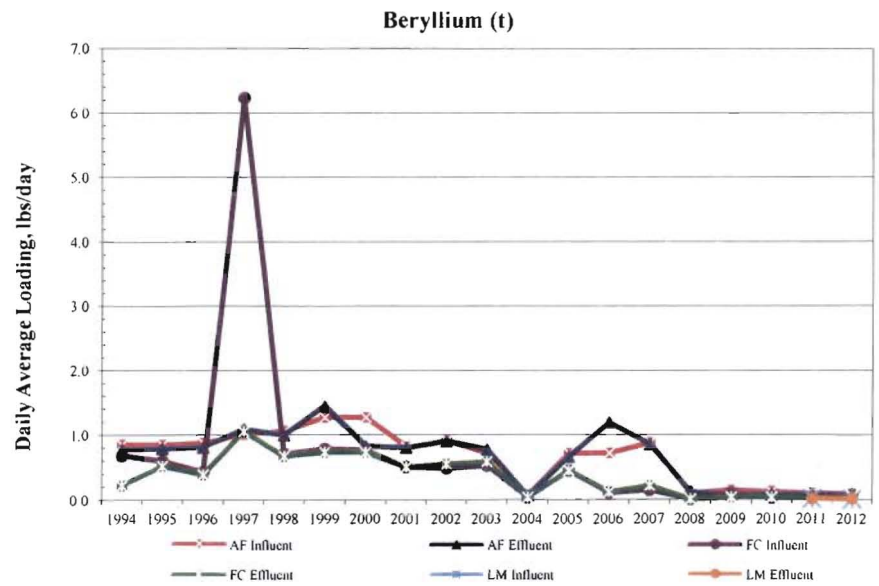
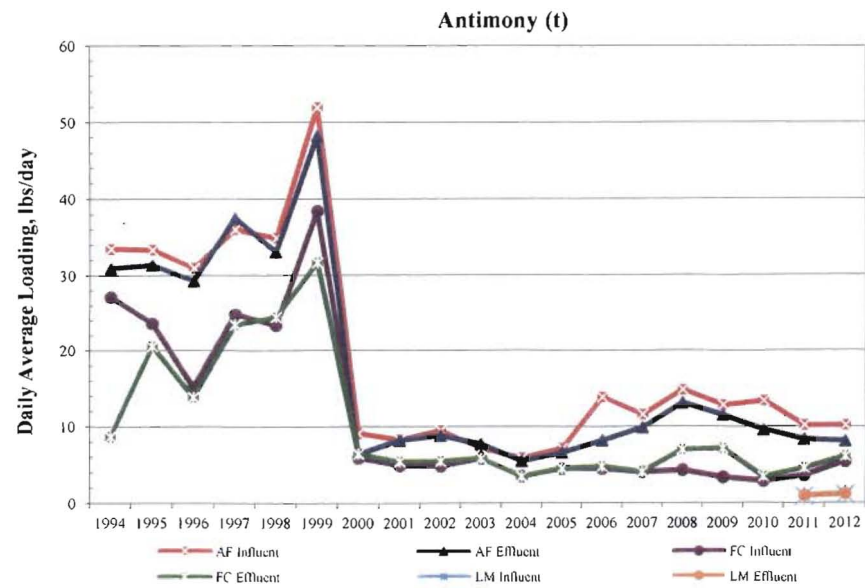
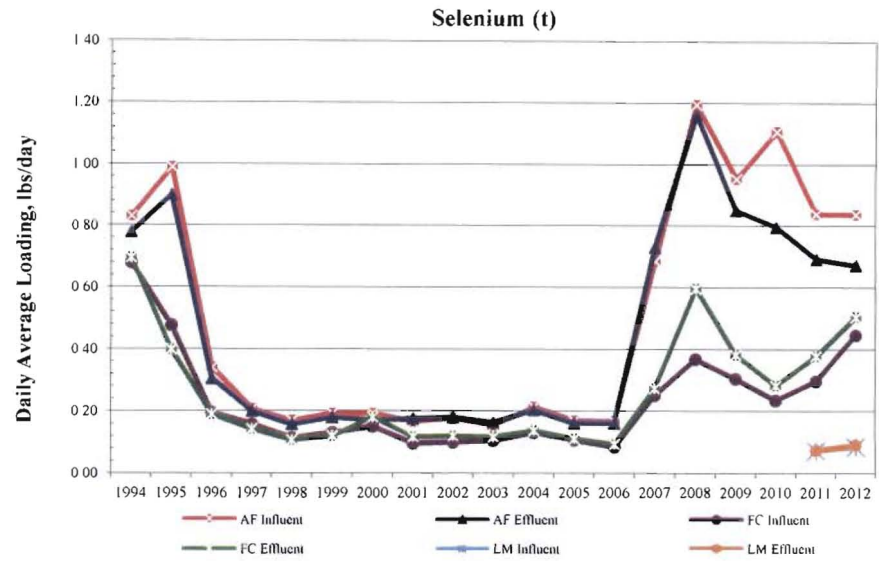
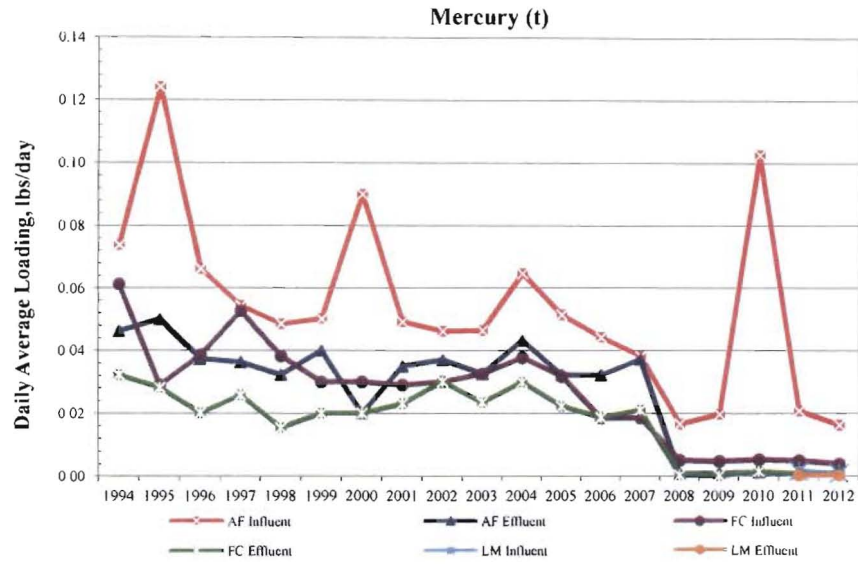
Zinc (t)



Arsenic (t)

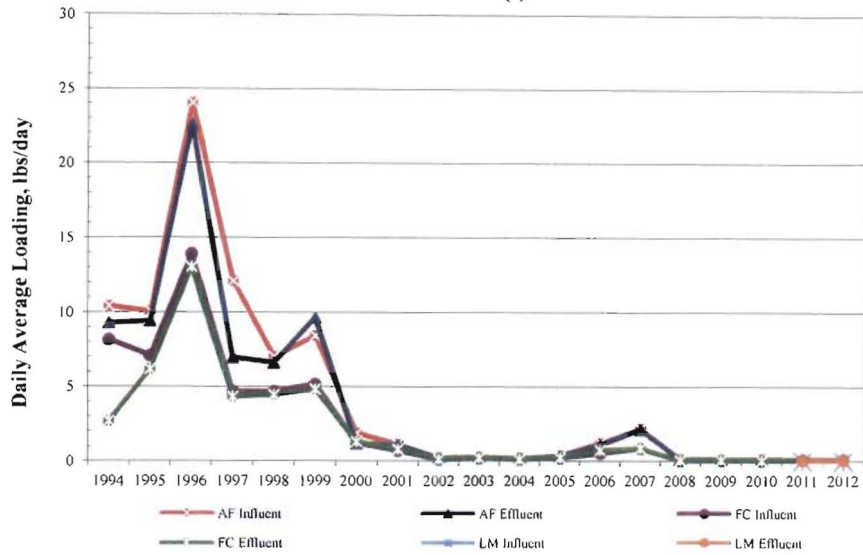


LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS

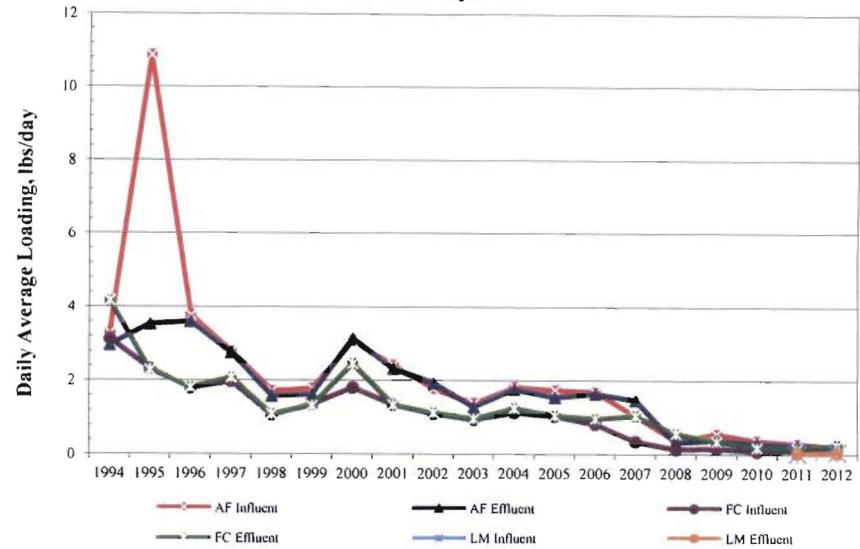


LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS

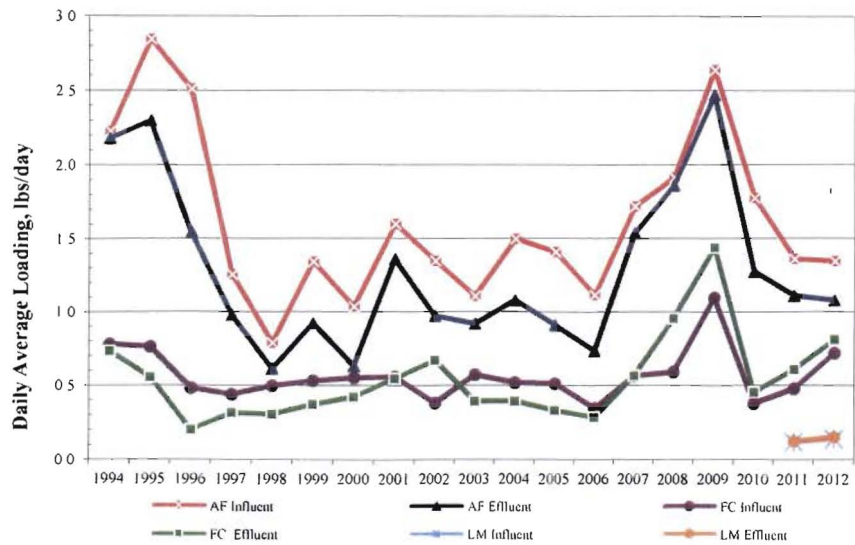
Thallium (t)



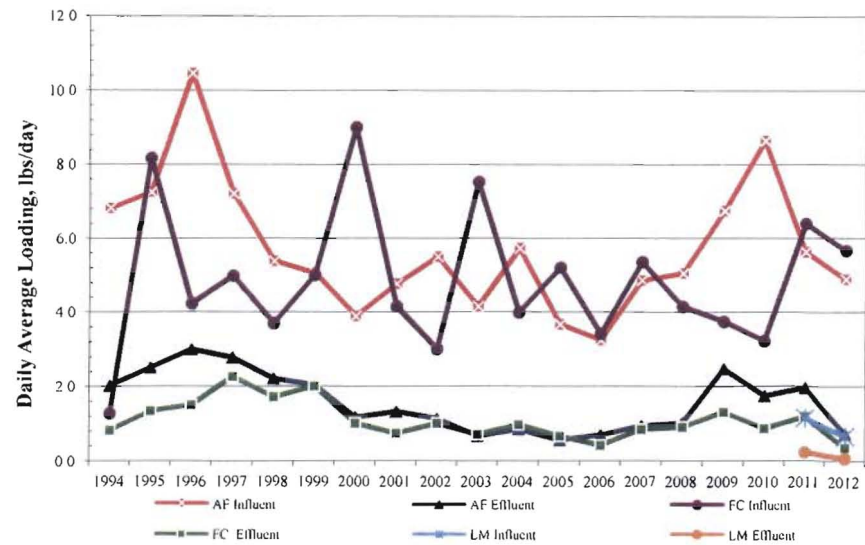
Total Cyanide



Molybdenum (t)

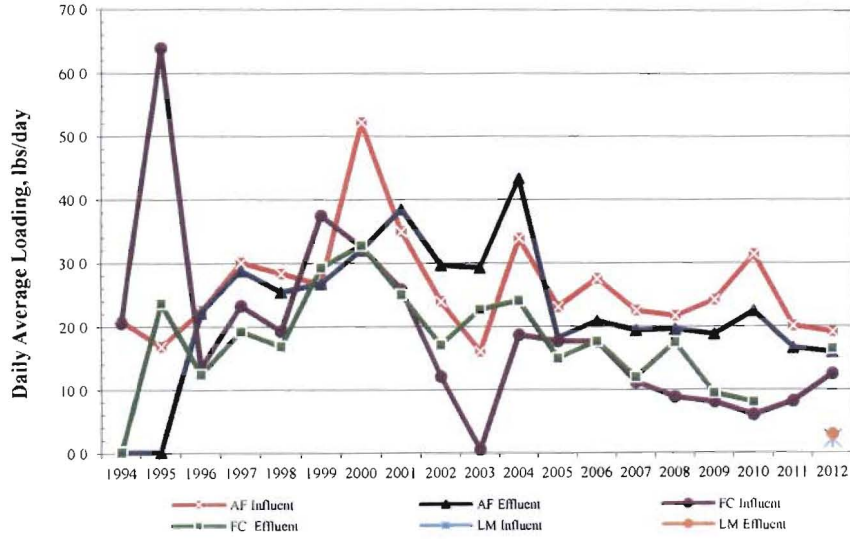


Total Phenolics

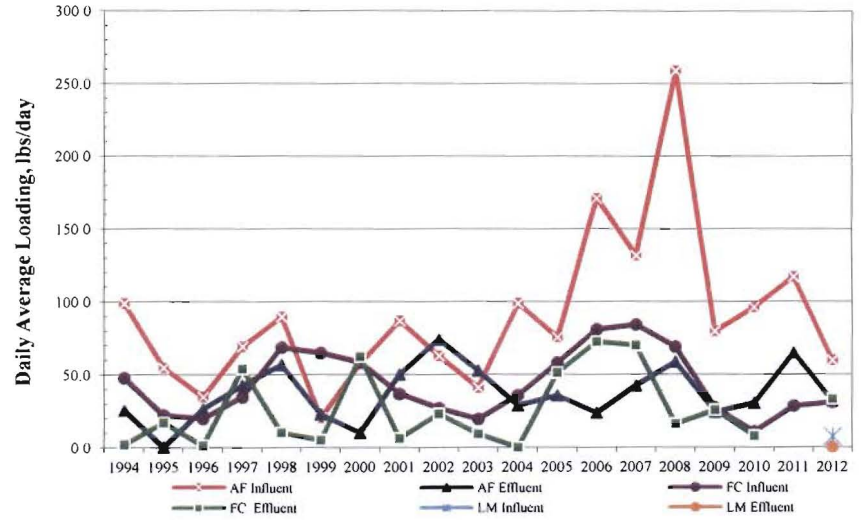


LITTLE ROCK WASTEWATER
 ENVIRONMENTAL ASSESSMENT DIVISION
 POTW PLANT INFLUENT/FINAL EFFLUENT LOADING TRENDS

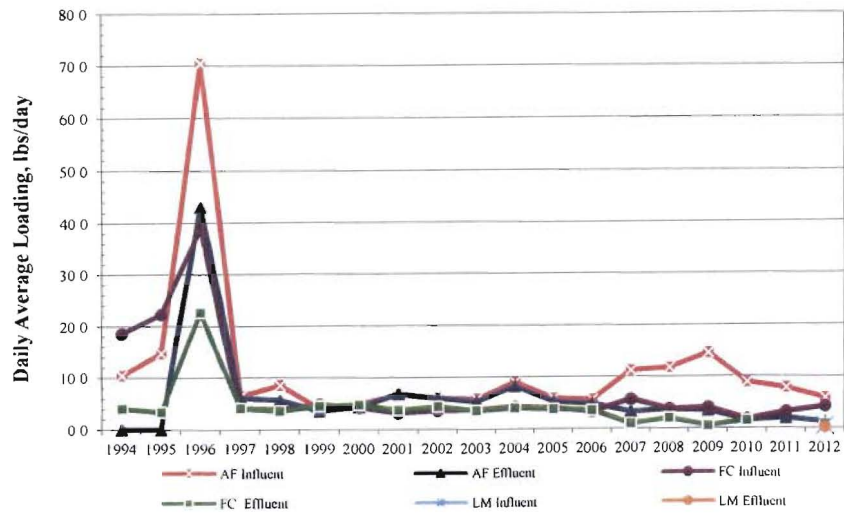
Boron (t)



Manganese (t)



Barium (t)



BIOSOLIDS 2012
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 (FC-WWTP). 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 5,854 dry tons of biosolids were land applied during 2012.

Biosolids from Lagoon 1 and 2 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 1 and 2 - 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 2012-LAGOONS 1 AND 2
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)			
2/23/2012	046-1-001	grab	< 5.0	2	50	330	56	< 2.0	16.0	24.0	< 7.0	13	670	< 32.46	5.75	53.93	7.79
	046-1-002	grab	< 5.0	1.9		320	55	< 2.0	16.0	21	< 7.0		650		5.67	54.45	7.90
	046-1-003	grab	< 5.0	1.5		240	36	< 2.0	13.0	16	< 7.0		490		5.06	54.32	7.85
	046-1-004	grab	< 5.0	1.9		320	54	< 2.0	15.0	21	< 7.0		650		7.62	46.11	7.49
	046-1-005	grab	< 5.0	1.8		320	50	< 2.0	16.0	22	< 7.0		620		6.23	52.81	7.40
	046-1-006	grab	< 5.0	1.9		310	51	< 2.0	16.0	19	< 7.0		610		5.59	54.44	7.51
	Lagoon 1	AVG	< 5.0	1.8	50	307	50	< 2.0	15.3	20.5	< 7.0	< 13.0	615	< 32.46	5.99	52.68	7.66
4/3/2012	046-2-001	grab	12.0	1.9	47	320	50	< 2.0	15.0	53	< 7.0	13	1100	< 34.19	5.47	56.62	7.49
	046-2-002	grab	14.0	2.4		330	58	< 2.0	17.0	23	< 7.0		1200		6.18	54.43	7.41
	046-2-003	grab	12.0	2.9		340	70	< 2.0	16.0	27	< 7.0		1200		7.88	49.32	7.33
	046-2-004	grab	17.0	2.1		320	54	< 2.0	16.0	23	< 7.0		1200		9.06	48.93	7.32
	046-2-005	grab	12.0	1.9		310	48	< 2.0	17.0	42	< 7.0		1100		8.31	49.70	7.22
	046-2-006	grab	13.0	1.9		310	49	< 2.0	16.0	23.0	< 7.0		1200		5.51	56.34	7.49
	Lagoon 2	AVG	13.3	2.2	47	322	55	< 2.0	16.2	31.8	7.0	13.0	1167	< 34.19	7.07		7.38

Average	9.2	< 2.0	49	314	53	2.0	15.8	26.2	< 7.0	< 13.0	891	< 33.33	6.53	52.68	7.56
Maximum	17.0	< 2.9	50	340	70	2	17.0	53	7.0	13	1200	< 34.19	9.06	56.62	7.9
Minimum	5.0	< 1.5	47	240	36	2.0	13.0	16.0	< 7.0	< 13	490	< 32.46	5.06	46.11	7.22

*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

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

NUTRIENTS

**FOURCHE CREEK WASTEWATER TREATMENT PLANT
BIOSOLIDS 2012-LAGOONS 1 AND 2
NUTRIENTS ANALYSIS SUMMARY**

Sample Date	Sample Location	Sample Type	Test Parameters - Reported in mg/kg dry							
			Nitrate(NO3)	Nitrite(NO2)	Phosphorus	Potassium	Ammonia as N	Total Kjeldahl Nitrogen	PCB*	TCLP*
2/23/2012	046-1-001	Grab	< 90.0	< 90.0	39000	4200	22000	51000		
	046-1-002	Grab	< 90.0	< 90.0	40000	3400	18000	48000		
	046-1-003	Grab	< 100.0	< 100.0	38000	2900	19000	49000		
	046-1-004	Grab	< 80.0	< 80.0	39000	2300	18000	38000		
	046-1-005	Grab	< 80.0	< 80.0	44000	2700	16000	42000		
	046-1-006	Grab	< 90.0	< 90.0	39000	3300	21000	48000		
	Lagoon 1	AVG	< 88.3	< 88.3	39833	3133	19000	46000	< 1.9	Pass
4/3/2012	046-2-001	Grab	< 9.0	< 9.0	33000	4500	21000	57000		
	046-2-002	Grab	< 9.0	< 9.0	36000	3700	18000	45000		
	046-2-003	Grab	< 7.0	< 7.0	38000	3400	16000	40000		
	046-2-004	Grab	< 6.0	< 6.0	36000	3400	15000	48000		
	046-2-005	Grab	< 8.0	< 8.0	37000	3500	19000	51000		
	046-2-006	Grab	< 9.0	< 9.0	34000	4300	23000	58000		
	Lagoon 2	AVG	< 8.0	< 8.0	35667	3800	18667	49833	< 1.8	Pass
	Average		< 48.2	< 48.2	37750	3467	18833	47917	< 1.9	Pass
	Maximum		100.0	< 100.0	44000	4500	23000	58000	< 1.9	
	Minimum		< 6.0	< 6.0	33000	2300	15000	38000	< 1.9	

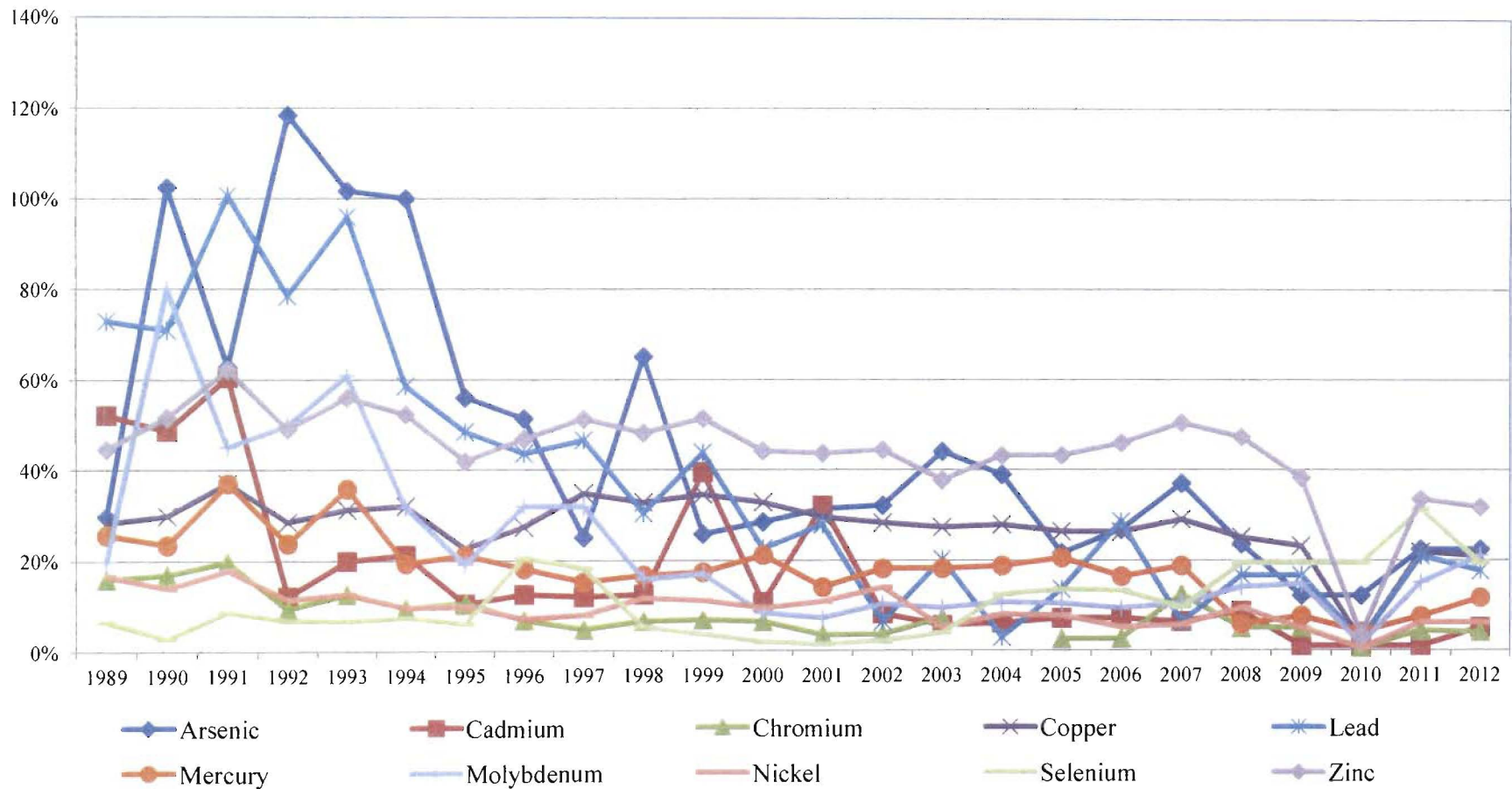
* 503.6(e) 503 does not establish requirements for use or disposal if determined to be hazardous in accordance to 40CFR261.

* 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.

Biosolids % of 503 Pollutant Concentration (EQ) Limit



(C-40177450849)

PPS Program Report

* NPDES ID: AR0021806

Permittee's Name Little Rock

* Report Received/Event Date: 3/29/13

Date 4/1/13

Report Type

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 *(Allen Gilliam)*
- SSO Annual Report
- SSO Event Report
- SSO Monthly Event Report
- Storm Water Event Report

Report Information

* Pretreatment Performance Summary Start Date: 1/1/12

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: 0
- Administrative Orders Issued to SIUs: 0
- Civil Suits Filed Against SIUs: 0
- Criminal Suits Filed Against SIUs: 0

Categorical Industrial Users (CIUs)

- CIUs: 15
- CIUs in SNC: 0

Penalties

Dollar Amount of Penalties Collected: \$ 1227

Number of 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
- Notification of 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: _____

Removal Credits

- Removal Credits Application Status: Not Applicable
- Date of Most Recent Removal Credits Approval: _____
- Removal Credits: _____

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: _____