



ARKANSAS  
Department of Environmental Quality

January 30, 2009

David Jurgens, Water and Wastewater Director  
City of Fayetteville – Paul R. Noland WWTP  
113 W. Mountain  
Fayetteville, AR 72701

RE: City of Fayetteville - Paul R. Noland WWTP  
Suspected Collection System Release Investigation

AFIN: 72-00102      NPDES Permit No.: AR0020010

Dear Mr. Jurgens:

On January 21, 2009, while conducting an inspection at the Premiere Plaza construction site located at the intersection of West 6<sup>th</sup> Street & S. Camellia Ln., Fayetteville, I observed what appeared to be wastewater discharging into Farmington Branch from below a recently buried, encased eight-inch sewer line. The discharge was located at the point where the line exits the north bank of the creek. The discharge was steady and had a raw sewage odor. The new line is tied into the existing main on the north side of the creek, and will collect wastewater from Premiere Plaza. Premiere Plaza is located south of the creek.

I notified the City of Fayetteville that afternoon of the observed condition, and a crew was dispatched to identify the source of the apparent collection system leak. A remote-controlled camera and dye tracing were utilized along limited lengths of the main in an attempt to locate the source; however, the source was not identified. The apparent waste appears to be traveling along the base of the main from its source to the point where it discharges into the creek.

A member of the investigation crew suggested that the discharge may be ground water, however, the long period of no rainfall prior to the investigation and the odor of the discharge suggested otherwise. In addition, the discharge was occurring from the north bank of the creek only. As of January 30, 2009, the discharge was still present.

A grab sample of the discharge was taken by OMI on January 22, 2009. The January 23, 2009, analytical report indicated that the sample was negative for fecal coliform bacteria. Because this discharge is still occurring, William Winn, City of Fayetteville, informed me on January 30, 2009, that the City will perform a spot dig in the area of the discharge to obtain an additional sample for fecal coliform bacteria analysis.

David Jurgens, City of Fayetteville- Paul R. Noland WWTP  
January 30, 2009  
Page 2

Please submit a written response with your investigation results to the Water Division Enforcement Branch of this Department at the following address:

Water Division Enforcement Branch  
Arkansas Department of Environmental Quality  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

This response should contain detailed documentation describing the course of action taken to confirm or refute this suspected release. If the release is confirmed, please include a summary of the repairs made to the collection system. The written response is due February 20, 2009.

If I can be of any assistance, please contact me at 479-267-0811, ext. 16.

Sincerely,

A handwritten signature in black ink that reads "John Fazio". The signature is written in a cursive style with a large, stylized "J" and "F".

John Fazio  
District 1 Field Inspector  
Water Division

cc: Water Division Enforcement Branch  
Water Division Permits Branch



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, D.C. 20460

Form Approved  
OMB No. 2040-0003

## NPDES Compliance Inspection Report

### Section A: National Data System Coding

Transaction Code	NPDES	Yr/Mo/Day	Inspec. Type	Inspector	Fac. Type
1 <b>N</b> 2 <b>5</b> 3 <b>A R 0 0 2 0 0 1 0</b> 11 12 <b>0 9 0 1 2 1</b> 17 18 <b>R</b> 19 <b>S</b> 20 <b>1</b>	Remarks				
Inspection Work Days		Facility Evaluation Rating		BI QA -----Reserved-----	
67		69	70 <b>N</b>	71 <b>N</b> 72 <b>N</b> 73	74 75 80

### Section B: Facility Data

Name and Location of Facility Inspected ( <i>For industrial users discharging to POTW, also include POTW name and NPDES permit number</i> ) <b>City of Fayetteville – Paul R. Noland WWTP (possible collection system release)</b> <b>1500 N. Fox Hunter Road</b> <b>Fayetteville, AR</b>	Entry Time/Date <b>1325 / 01-21-09</b>	Permit Effective Date <b>06-01-06</b>
	Exit Time/Date <b>1610 / 01-21-09</b>	Permit Expiration Date <b>05-31-11</b>
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) <b>Will Winn, City of Fayetteville, 479-601-4611</b>	Other Facility Data <b>Discharge location:</b> <b>36.0495, -94.2195</b>	
Name, Address of Responsible Official/Title/Phone and Fax Number <b>David Jurgens, Water and Wastewater Director</b> <b>City of Fayetteville</b> <b>113 W. Mountain</b> <b>Fayetteville, AR 72701</b> <b>479-575-8330 / 479-575-8257</b>	Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

### Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

N	Permit	N	Flow Measurement	N	Operations & Maintenance	N	Sampling
N	Records/Reports	N	Self-Monitoring Program	N	Sludge Handling/Disposal	N	Pollution Prevention
N	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
N	Effluent/Receiving Waters	N	Laboratory	N	Storm Water	N	Other: leak investigation



### Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

A reconnaissance inspection was conducted following the discovery of an apparent wastewater collection system discharge into Farmington Branch. The discharge is located on the north bank of Farmington Branch northwest of the intersection of West 6<sup>th</sup> St. and Camellia Ln.


The City of Fayetteville is currently conducting an investigation to confirm or deny the release. The City is to submit to the Department the results of its investigation by February 20, 2009.

Name(s) and Signature(s) of Inspector(s) <b>John Fazio</b> 	Agency/Office/Telephone/Fax <b>AR Dept. of Environmental Quality-Fayetteville</b> <b>479-267-0811 ext. 16 / 479-267-0819</b>	Date <b>January 30, 2009</b>
Signature of Reviewer	Agency/Office/Phone and Fax Numbers	Date

**Arkansas Department of Environmental Quality (ADEQ)  
Official Photograph Sheet**

<b>Location:</b>		City of Fayetteville Suspected Wastewater Collection System Release						
<b>Photographer:</b>		John Fazio			<b>Witness:</b>		None	
<b>Photo #</b>	1	<b>Of</b>	3		<b>Date:</b>	01/21/09	<b>Time:</b>	1325
<b>Description:</b>		Encased 8" sewer line across Farmington Branch. Taken from Premiere Plaza. Looking north. Tied into main north of creek.						
								
<b>Photographer:</b>		John Fazio			<b>Witness:</b>		None	
<b>Photo #</b>	2	<b>Of</b>	3		<b>Date:</b>	01/21/09	<b>Time:</b>	1336
<b>Description:</b>		Discharge from below encased line into creek. Note iron-staining.						
								

**Arkansas Department of Environmental Quality (ADEQ)  
Official Photograph Sheet**

<b>Location:</b>		City of Fayetteville Suspected Wastewater Collection System Release						
<b>Photographer:</b>		John Fazio			<b>Witness:</b>		None	
<b>Photo #</b>	3	<b>Of</b>	3		<b>Date:</b>	01/21/09	<b>Time:</b>	1450
<b>Description:</b>		Iron-stained discharge from north bank into creek. Sediment and discharge has raw sewage odor.						
								
<b>Photographer:</b>					<b>Witness:</b>			
<b>Photo #</b>		<b>Of</b>			<b>Date:</b>		<b>Time:</b>	
<b>Description:</b>								

**From:** Roberts, Anne  
**Sent:** Monday, March 23, 2009 10:14 AM  
**To:** 'David Jurgens'  
**Subject:** Inspection at Premiere Plaza construction site  
Mr. Jurgens,

We can't find your response to the attached letter from ADEQ Inspector John Fazio concerning his January 21, 2009 inspection of the referenced site. If you have already submitted the missing letter, please send a copy of it to us so we may place it on file and correct our records. If you have not submitted your response, please do so immediately.

Thanks.

*Anne Roberts*  
Enforcement Administrator  
Water Division  
Arkansas Dept. of Environmental Quality (ADEQ)  
5301 Northshore Drive  
North Little Rock, AR 72118-5317  
Telephone: (501) 682-0632  
Fax: (501) 682-0910

From: Roberts, Anne  
Sent: Thursday, April 16, 2009 8:49 AM  
To: 'David Jurgens'  
Cc: William Winn  
Subject: RE: Inspection at Premiere Plaza construction site

David,

I still haven't received Fayetteville's response. Let me know if you have sent it in already. We've been having more problems than usual--which are already a lot--with our filing system for incoming mail, so it may not have come to me.

Thanks.

Anne Roberts  
Enforcement Administrator  
Water Division  
Arkansas Dept. of Environmental Quality (ADEQ)  
5301 Northshore Drive  
North Little Rock, AR 72118-5317  
Telephone: (501) 682-0632  
Fax: (501) 682-0910

-----Original Message-----

From: David Jurgens [mailto:djurgens@ci.fayetteville.ar.us]  
Sent: Tuesday, March 31, 2009 3:15 AM  
To: Roberts, Anne  
Subject: Re: Inspection at Premiere Plaza construction site

Anne,

I too enjoyed Thursday's meeting. We are putting both the presentation and the notebook onto a thumb drive and will send it to you in a few days. I will probably expand the notebook a small amount to reflect current training and licensing status.

I believe the response to attached letter from ADEQ Inspector John Fazio concerning his January 21, 2009 inspection of the referenced site was submitted while I was overseas on military duty. I do remember that lab samples confirmed what the televising and dye testing indicated- the water was not wastewater; the water in question was stagnant water that had been trapped in the encasement pipe. I will send you the letter as soon as possible. Both Tom Hubbard and Will Winn are in Camden yesterday and today for Train the Trainer instruction for water and wastewater licensing and certification training, so it may be Wednesday before I have the response.

Thank you,

David

>>> "Roberts, Anne" <ROBERTSA@adeq.state.ar.us> 3/30/2009 12:35 pm >>>

David,

See the message below. I meant to bring it up last week when you were here. Please respond ASAP.

I certainly enjoyed your informative presentation on Fayetteville's efforts to address SSOs. Anne Roberts Enforcement Administrator Water Division Arkansas Dept. of Environmental Quality (ADEQ) 5301 Northshore Drive North Little Rock, AR 72118-5317  
Telephone: (501) 682-0632  
Fax: (501) 682-0910

-----Original Message-----

From: Roberts, Anne  
Sent: Monday, March 23, 2009 10:14 AM  
To: 'David Jurgens'  
Subject: Inspection at Premiere Plaza construction site

Mr. Jurgens,

We can't find your response to the attached letter from ADEQ Inspector John Fazio concerning his January 21, 2009 inspection of the referenced site. If you have already submitted the missing letter, please send a copy of it to us so we may place it on file and correct our records. If you have not submitted your response, please do so immediately.

Thanks.

Anne Roberts  
Enforcement Administrator  
Water Division  
Arkansas Dept. of Environmental Quality (ADEQ)  
5301 Northshore Drive  
North Little Rock, AR 72118-5317  
Telephone: (501) 682-0632  
Fax: (501) 682-0910





## UTILITIES DEPARTMENT

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April 23, 2009

Ms. Anne Roberts  
Enforcement Administrator, Water Division  
5301 North Shore Drive  
North Little Rock, AR 72118-5317

**Re: NPDES Permit AR0020010, AFIN 72-00102, Suspected Collected System Release Investigation**

Dear Ms. Roberts,

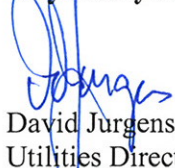
The City of Fayetteville's investigation into the water entering Farmington Branch from the ditch line of a new sewer pipe indicates the water is groundwater, not wastewater. The initial release was more stagnant than would be typical because it was captured and retained in the steel encasement pipe since the pipeline was originally installed. Later flow was cleaner, typical of groundwater, but still contained the reddish color that is not uncommon in ditch water that passes through red clay soils. The ground water enters the trench line anywhere along the route where the pipeline (and other crossing utilities) is installed, and then follows the French drain of gravel surrounding the pipe. Per PVC manufacturers' recommendations, we require 6" of gravel bedding completely surrounding all PVC pipelines.

Upon receiving notification of a possible problem on the afternoon of January 21, 2009, Fayetteville supervisory and field crews responded to the site and in the presence of Mr. Fazio of ADEQ immediately televised and dye tested the sewer main to determine if there was any failure in the pipeline. The dye never showed up in the creek; the televising did not show any pipe problems. The city followed up with additional televising and dye testing; again, no dye ever showed up in the ditch line, and the density of dye in the sewer pipe was consistent with a tight system. The attached map shows which lines were televised and dye tested within the drainage basin. On January 22, 2009, a grab sample was drawn by OMI, our wastewater treatment plant operator, and tested at the Noland WWTP lab. It was negative for fecal coliform bacteria. After a test hole was dug, an additional grab sample was taken on February 24, 2009. Again, the sampling indicated no signs of wastewater. Copies of these samples are attached as are photos taken in April. Further observation over the next few months indicated that the original hypothesis was correct in that the water coming from the pipe encasement was ground water and not wastewater.

Please contact me at 479-575-8330 or [djurgens@ci.fayetteville.ar.us](mailto:djurgens@ci.fayetteville.ar.us) if you have any questions.

Sincerely,

**City of Fayetteville**



David Jurgens, P. E.  
Utilities Director

Enclosure

Cc: John Fazio



**Legend**

-  Test Hole
-  Dye Test



North End of Encasement Where Groundwater is Appearing  
Photo Taken 21 April, 2009



Close Up of Above Photo



Close Up of North End of Encasement Looking Down Where Groundwater is Appearing  
Photo Taken 21 April, 2009



North End of Encasement Where Groundwater is Appearing  
Photo Taken 21 April, 2009



Looking Southeast from North Shore  
Photo Taken 21 April, 2009



Looking Southeast from North Shore  
Photo Taken 21 April, 2009



Looking West Along Existing Line  
The Test Hole is on the left side of the photo where the greener grass is located  
No dye showed up in the test hole  
Photo Taken 21 April, 2009



QA/QC REPORT

Date of report: 01/23/09

Batch #: Pipe casing/creek crossing

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Parameter	Blank	Unit	Spike/Std		Duplicate	
			Ref.Value	Recovery		
F. coliform	0	cfu	na	na	1	2

---

Certified by: Bruce Richart  
Bruce Richart, Lab Director

Date: 012309

- REMARKS:
1. Blank, Duplicate, Spike (where applicable) or Internal Standard are performed at least 10% per batch.
  2. QC measurements are performed on random samples.
  3. QC data are within control limits.

FAYETTEVILLE PROJECT 1400 North Fox Hunter Road Fayetteville, Arkansas 72701 479-443-3292 Fax 479-443-5613  
Corporate Headquarters 9193 S. Jamaica Street, Suite 400 Englewood, CO 80112 303-740-0019 Fax 303-740-7061



**ANALYTICAL REPORT**

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Date of Report: 01/23/09  
Attention: William Winn  
Project: Fayetteville  
File ID: Creek pipe crossing  
6th & Camelia  
D/T Collected: 01/22/09 / 1113  
Collected By: BR  
Sample Source: pipe casing leak  
Lab ID #: 09-0090  
Sample Date: 01/22/09  
Sample Type: Grab  
D/T Received: 01/22/09 / 1151  
Received By: BR

---

Parameter	Result	Unit	Date Analyzed	Method	Analyst
Fecal Coliform	<1	cfu	01/22/09 / 1214	SM 9222D	DM/BR

---

Certified by: *Bruce Richart*  
Bruce Richart, Lab Director

Date: 012309





QA/QC REPORT

Date of report: 02/25/09

Batch #: Pipe casing/creek crossing

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Parameter	Blank	Unit	Spike/Std		Duplicate	
			Ref.Value	Recovery		
F. coliform	0	cfu	na	na	72	89

---

Certified by: *Bruce Richart*  
Bruce Richart, Lab Director

Date: 022509

- REMARKS:
1. Blank, Duplicate, Spike (where applicable) or Internal Standard are performed at least 10% per batch.
  2. QC measurements are performed on random samples.
  3. QC data are within control limits.



**ANALYTICAL REPORT**

Date of Report: 02/25/09

Attention: William Winn  
Project: Fayetteville

File ID: Creek pipe crossing  
6th & Camelia

D/T Collected: 02/24/09 / 1113  
Collected By: BR

Sample Source: pipe casing leak  
Lab ID #: 09-0221

Sample Date: 02/24/09  
Sample Type: Grab

D/T Received: 02/24/09 / 1145  
Received By: BR

Parameter	Result	Unit	Date Analyzed	Method	Analyst
Fecal Colifom	2	cfu/100ml	02/24/09 / 1205	SM 9222D.	DM/DM

Certified by:   
Bruce Richart, Lab Director

Date: 022509

# ADEQ

A R K A N S A S  
Department of Environmental Quality

April 24, 2009

David Jurgens, P.E.  
Fayetteville, City of  
Paul R. Noland WastewaterTF  
113 W. Mountain Street  
Fayetteville, AR 72701

RE: NPDES Permit AR0020010, AFIN 72-00102  
Response to Inspection

Dear Mr. Jurgens:

ADEQ has received your response to the January 21, 2009 inspection at Premiere Plaza by our District Field Inspector, Brent Walker. Your letter appears to adequately address the discrepancies identified during the visit.

The Department will keep the inspection and response on file and will consider them as required by the Pollution Control and Ecology Commission Regulation No. 7, Civil Penalties. This regulation requires ADEQ to consider the past history of your company and how expeditiously the violations were addressed in determining any civil penalty that may be necessary for any violations.

Thank you for your attention to this matter. If we need further information, we will contact you. Should you have any questions, feel free to contact me by phone at 501-682-0632 or e-mail at [robertsa@adeq.state.ar.us](mailto:robertsa@adeq.state.ar.us). In any written correspondence to this Department, please refer to NPDES Permit AR0020010 and AFIN 72-00102.

Sincerely,



Anne Roberts  
Enforcement Administrator  
Enforcement Branch  
Water Division