



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

Form Approved  
OMB No. 2040-0003  
Approval Expires 7-31-85

# NPDES Compliance Inspection Report

## Section A: National Data System Coding

Transaction Code	NPDES	Yr/Mo/Day	Inspec. Type	Inspector	Fac. Type
1 N 2 5 3 A R 0 0 2 1 6 6 1	11 12 1 1 0 5 0 9	17 18 R	19 S	20 1	
Remarks					
Inspection Work Days	Facility Evaluation Rating	BI	QA	-----Reserved-----	
67 69	70 N	71 N	72 N	73	74 75 80

## Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) <b>Cabot Water &amp; Wastewater Comm. – From NLR Office go east on I-40 to Highway 67/167 North to Cabot. Take the first Cabot exit and go east (right) on Highway 321 approximately 2.75 miles to CO road 449 (turn left) and go ~1 mile to Marshall Road. Turn left on Marshall Road. Plant is a end of Road.</b>	Entry Time/Date 10:54 AM ON 05/09/11	Permit Effective Date 11/1/2007
	Exit Time/Date 11:20 AM ON 05/09/11	Permit Expiration Date 10/31/2012
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) <b>Jana Kohlmann, Operator; Bill Hawk, Superintendent; Tim Joyner, General Manager</b>	Other Facility Data	
Name, Address of Responsible Official/Title/Phone and Fax Number <b>Tim Joyner Cabot Water &amp; Wastewater Comm. PO Box 1287 Cabot, AR 72023 (501) 843-3566</b>	Contacted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Section C: Areas Evaluated During Inspection

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

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

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

See next page for details.

Name(s) and Signature(s) of Inspector(s) <b>Dennis Benson</b>	Agency/Office/Telephone/Fax <b>AR Dept. of Environmental Quality- (501) 683-0827/(501) 682-0910 (Fax)</b>	Date <b>05/09/11</b>
Signature of Reviewer	Agency/Office/Phone and Fax Numbers	Date

## **NPDES Compliance Inspection Report Further Explanation**

Recon level inspection conducted at the request of the Enforcement Branch in response to the POTWs report of a hydraulic overload and loss of biomass during significant rain event on May 1, 2011. During the event, the facility received over 7 inches of rain (documented in their operational logs) and the facility's flow peaked at 11.335 mgd. This is the daily flow and not the instantaneous peak flow during the event. The operator speculated it could have been as high as 16 mgd. The design flow of this facility is 6.0 mgd. In response to the hydraulic load, the permittee removed the uv lights and shut off the brush rotors. However, because of lack of capacity in the sludge storage lagoon the facility was operating with a significant blanket in the secondary clarifiers and a significant MLSS in the activated sludge basin. Cabot has been running aerators in the sludge storage lagoon to 'hopefully' further degrade the sludge in the lagoon to try to free up space, however, they have not determined the MLVSS of the sludge so they don't know if they will get further reduction and/or if the effort is worth the cost of energy. It should be noted that although this facility peaked at almost 2 times the design, within 48 hours of the end of the rainfall, the flow was almost back to normal. This is a good indicator that I&I efforts are paying off.

This facility needs to do something about the solids inventory in the sludge storage lagoons. The lagoon is at the freeboard limit and will not tolerate much additional wasting without additional capacity. Without additional mixed liquor wasting space, maintaining effluent quality may become an issue in the near future. Additionally, this facility needs to develop very specific operational procedures to deal with these types of events. There was sufficient advanced notice of this rain event that the facility could have implemented operational changes such as lowering sludge blankets which would have minimized the quantity of solids lost during the event. Additionally, the procedures should spell out at what flow rate should they stop the brush aerators and report the bypass to ADEQ.

It should be noted that sludge management was one of the issues pointed out by this inspector during the February 16, 2011 inspection of this facility.

<b>Location:</b>	Cabot Water & Wastewater Comm.						
<b>Photographer:</b>	Dennis Benson			<b>Witness:</b>	None		
<b>Photo #</b>	1	<b>Of</b>	2	<b>Date:</b>	05/09/11	<b>Time:</b>	11:00 am
<b>Description:</b>	Staining on outfall wall reveals height of water when solids were lost.						



<b>Photographer:</b>	Dennis Benson			<b>Witness:</b>	None		
<b>Photo #</b>	2	<b>Of</b>	2	<b>Date:</b>	2/15/11	<b>Time:</b>	11:02 am
<b>Description:</b>	Staining on wall shows height of water in this area of the outfall. This is on a stair landing between outfall and stream. Stream back-up was this high..						

