

ICIS-NPDES

EA Initials: KS

COMPLIANCE SCHEDULE CODING FORM

Enforcement Actions

NPDES PERMIT #: **AR0046566**ACTION ID: **6553**FACILITY NAME: **City of Walnut Ridge**

TRANS CODE	<u>C</u>	TRANS CODE	
COMPLIANCE SCHEDULE TYPE-NUMBER	<u>1</u>	COMPLIANCE SCHEDULE TYPE-NUMBER	
COMPLIANCE SCHEDULE DESCRIPTION	<u>A</u>	COMPLIANCE SCHEDULE DESCRIPTION	
EVENT CODE (Description)	CS011 Plan, Report, or Scope of Work	EVENT CODE (Description)	
SCHEDULE DATE	<u>07-31-2012</u>	SCHEDULE DATE	
ACTUAL DATE	<u>07-26-2012</u>	ACTUAL DATE	
REPORT RECEIVED DATE	<u>07-27-2012</u>	REPORT RECEIVED DATE	
COMMENTS	Submit Effluent Reduction Evaluation Report detailing updates from April – June 2012	COMMENTS	
(Court Docket Number) LIS#	10-156	(Court Docket Number) LIS#	10-156

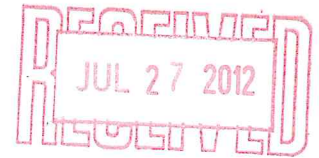
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July 26, 2012

Mary Barnett
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Re: City of Walnut Ridge
NPDES Permit No. AR0046566
CAO LIS No.: 10-156
TRE Quarterly Report – 2nd Quarter 2012

Dear Ms. Barnett:

The City of Walnut Ridge is permitted to discharge treated effluent from their wastewater treatment plant (WWTP) under National Pollutant Discharge Elimination System (NPDES) Permit No. AR0046566. Requirements in this permit state that Walnut Ridge shall conduct a Toxicity Reduction Evaluation (TRE) and submit quarterly reports on the evaluation's status. Garver, LLC would like to submit this TRE 2012 2nd Quarter Report on behalf of the City of Walnut Ridge to meet this requirement. Listed below are activities that the City of Walnut Ridge has performed in the 2nd Quarter 2012 and activities to be completed in the 3rd Quarter of 2012. The next quarterly report will be submitted in October 2012.

Activity

During the 2nd Quarter of 2012 Walnut Ridge and Garver completed the following items to both improve WWTP performance and comply with requirements stated in NPDES Permit No. AR0046566. Top priorities for the year are to establish a healthy biomass for treatment in the aeration basin and to determine the source of toxicity. Garver has provided WWTP operational recommendations to assist the staff in developing a more effective treatment biomass by increasing sludge wasting and reducing air flow to diffusers after significant rainfall events to retain the existing biomass.

Ammonia is suspected to be the source of toxicity based on effluent permit violations. Garver has recommended to the City of Walnut Ridge the purchase of a continuous monitoring ammonia probe, HACH NH4D SC with probe and sensor, to assist in identifying spikes in ammonia concentration. Once the spikes in ammonia are identified at the plant's headworks Garver and Walnut Ridge can begin investigating potential source contributors and determine the treatment plant's ammonia removal efficiency. Listed below are repairs, WWTP improvement recommendations, and other activities completed by the Walnut Ridge WWTP personnel and Garver during the 2nd Quarter of 2012.

1. Reviewed monthly Discharge Monitoring Reports (DMR's). Information is being analyzed for trends that may lead to identifying source of toxicity.
2. Reviewed WWTP flow data compared to precipitation to determine if infiltration and inflow to the collection system is occurring. Infiltration and inflow are contributing to large flows at the WWTP. This hydraulically overloads the WWTP, which in turn prohibits the retention of the biomass within the aeration basin. A collection system flow study has been proposed and is awaiting approval from the City of Walnut Ridge.
3. City of Walnut Ridge staff repaired two 8-inch sewer leaks.
4. City of Walnut Ridge staff rehabilitated fifteen diffuser heads in the aeration basin.
5. City of Walnut Ridge staff rebuilt the bar screen gear box.
6. Purchase of ammonia probe approved by Walnut Ridge Wastewater Commission.
7. Lester Herring, Manager of Walnut Ridge Water Works retired in May of 2012, and Jon Kopp was hired as his replacement. Jon Kopp worked directly under Mr. Herring before his retirement. Jon Kopp and Aaron Stallmann met with ADEQ staff to introduce Mr. Kopp as the new manager on July 10, 2012.

Tasks to be completed in the 3rd quarter of 2012:

1. Continue sampling to meet permit requirements and to provide data necessary to determine the treatment efficiency of the WWTP.
2. Continue to perform MLSS tests.
3. City of Walnut Ridge staff has scheduled to remove sludge from the chlorine contact chamber.
4. Continue detection and repair of sewer leaks city-wide by City of Walnut Ridge staff.
5. Repair of diffuser heads.
6. Purchase and install ammonia probe at WWTP.

Ms. Barnett
July 26, 2012
Page 3 of 3

We appreciate your time in reviewing this document. Please call me at (501) 376-3633 if you have any questions.

Sincerely,

GARVER, LLC



Aaron Stallmann, P.E.
Project Manager

CC: Jon Kopp – Walnut Ridge
Kevin Suel – ADEQ
JPS
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