

June 25, 2007

John Rimmer, General Manager West Memphis Utilities Commission P.O. Box 1868 West Memphis, AR 72301

RE: Waste Water Treatment Plant

AFIN: 18-00109

NPDES Permit No.: AR0022039

Dear Mr. Rimmer:

On May 15, 2007, I performed a routine compliance inspection of the waste water treatment facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. This inspection revealed the following violations:

- 1. Improper reporting of 7-day averages; this violates Part IV Section A: Definition 18. "7-day average" discharge limitation, other than for fecal coliform bacteria, is the highest allowable arithmetic means of the values for all effluent samples collected during the calendar week. The 7-day average for fecal coliform bacteria is the geometric mean of the values of all effluent samples collected during the calendar week in colonies/100 ml. The DMR should report the highest 7-day average obtained during the calendar month. For reporting purposes, the 7-day average values should be reported as occurring in the month in which the Saturday of the calendar week falls in.
- 2. Improper sample collection; this violates Part IV Section A: Definition 22. "6-hour composite sample" consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow. The first sample portion was being collected earlier than 10:00 a.m. *If you wish to switch to collecting 24-hour composite samples as discussed during the inspection, please contact the Permits Section of this department for permission.*
- 3. There was a calculation error in the March 2007, DMR. The 7-day average for BOD was incorrectly reported as 12.5 mg/l. The correct 7-day average for BOD was 5.1 mg/l. Please submit a corrected DMR for this monitoring period.

John Rimmer, West Memphis WWTP June 25, 2007 Page 2

The above items require your immediate attention. Please submit a written response to these findings to the Water Division Enforcement Section of this Department. This response should contain documentation describing the course of action taken to correct the items noted. This corrective action should be completed as soon as possible, and the written response is due by July 19, 2007.

If I can be any assistance, please contact me at walker@adeq.state.ar.us or 870-935-7221 ext.-12.

Sincerely,

Brest 2 Walter

Brent L. Walker District 3 Field Inspector Water Division

cc: Water Division Enforcement Branch Water Division Permits Branch

| | | | | | | | | | | | | | | | | | _ | | | |
|---|---|---------|--------------|-----------|---------------------------------|----------|-----------|--------------------------|------------------------------------|--|----------|---------|-----------|-----------------------|--|---------------------------------------|----------|------|--------|-----|
| ≎EPA | | | | | | | | | Form Approved OMB No. 2040-0003 | | | | | | | | | | | |
| | | | | | | | | Approval Expires 7-31-85 | | | | | | | | | | | | |
| | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington, D.C. 20460 | | | | | | | | | | | | | | | | | | | |
| | NPDES Compliance Inspection Report | | | | | | | | | | | | | | | | | | | |
| | Section A: National Data System Coding | | | | | | | | | | | | | | | | | | | |
| Transaction Code NPDES Yr/Mo/Day Inspec. Type Inspector H 1 N 2 5 3 A R 0 0 2 2 0 3 9 11 12 0 7 0 5 1 5 17 18 C 19 S 20 | | | | | | | | | | . Type | | | | | | | | | | |
| | Image: | | | | | | | | | | | | | | | | | | | |
| | Inspection Work Days Facility Evaluation Rating BI QAReservedReserved | | | | | | | | | | | | | | | | | | | |
| | Inspection Work Days 67 69 | 1 | raenny 70 | 1 1 | on Kau | mg | 71 | BI N | 72 | QA N 73 | | | 74 7: | 5 | Reserved | | | | | |
| | | | | | | | | | | | | | ,. ,. | | | | | | 00 | |
| Nan | ne and Location of Facility Inspected | (For | . industr | ial usars | dische | | Section I | | | Data Entry Tin | ne/Date | | | | Dorm | it Eff | octivo I | Data | | |
| incl | ude POTW name and NPDES permit st Memphis WWTP | | | iai users | uiscnu | urging i | U FOI W | v, aiso | , | 1105 5/1 | | 3 | | | | Permit Effective Date June 1, 2003 | | | | |
| Wes | Rushing Rd. st Memphis, AR ttenden County | | | | | | | | | Exit Time 1705 5/1 | | | | | Permit Expiration Date May 31, 2008 | | | | | |
| Paul Holloway/Waste Water Superintendent/870-735-9862 | | | | | | | | ther Facility Data | | | | | | | | | | | | |
| | ricia Dixon/Laboratory ne, Address of Responsible Official/ | Title/l | Phone a | nd Fax N | lumber | r | | | | | | | | - | | | | | | |
| Joh | n Rimmer/General Manager/870-7 st Memphis Utilities Commission | | | | | | | | | | Conta | acted | | | | | | | | |
| P.O | . Box 1868 st Memphis, AR 72301 | | | | | | | | | Yes No | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | (S | | | | | | | ring Inspe sfactory, N | | Evalu | ated) | | | | | | | |
| S | Permit | S | Flow | Measure | ement | | | S | Op | perations & Maintenance M | | | Sampling | | | | | | | |
| М | Records/Reports | М | Self-I | Aonitori | ing Pro | ogram | | S | Slu | Sludge Handling/Disposal | | | Ν | | | | | | | |
| М | Facility Site Review | N | Com | pliance S | Schedu | iles | | N | Pre | | | | N | Wultimedia | | | | | | |
| М | Effluent/Receiving Waters | S | | ratory | ory of | Findir | ac/Com | U | | orm Water N ttach additional sheets if necessary) | | | | | Other: | | | | | |
| - | | 50 | | · Summa | ai y 01 | rmun | igs/Com | ment | 5 (AU | | Jilai Si | icets i | I necessa | u y) | | | | | | |
| | of November 2006 the City of Wes | | - | | | | - | • | • | - | and n | nainte | enance o | f the fa | acility fr | om C | MI. 1 | here | have b | een |
| | | | | | | | | | | | | | | | | | | | | |
| A | review of DMRs since November 2 | 006 r | evealed | no pern | nit exc | ursion | s. | | | | | | | | | | | | | |
| See | See attached sheets for a Summary of Findings/Comments. | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Name(s) and Signature(s) of Inspector(s) | | | | | | /Office/ | | | Fax al Quality | -Jones | bore | | | Date June 15, 2007 | | | | | | |
| Brent L. Walker But L Water | | | | | | | | | 0) 935-471 | | | | | June | , 4 | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Signature of Reviewer Agency/Office | | | | | cy/Office/Phone and Fax Numbers | | | | Date | Date | | | | | | | | | | |

| SECTION A: PERMIT VERIFICATION | |
|--|-----------------------|
| PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS | 🗹 s 🗆 m 🗇 u 🗆 na 🗠 ne |
| DETAILS: | |
| 1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE: | 🗹 y 🗆 n 🗆 na 🗇 ne |
| 2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES: | |
| 3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT: | |
| 4. ALL DISCHARGES ARE PERMITTED: | |
| | |
| SECTION B: RECORDKEEPING AND REPORTING EVALUATION | |
| RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT | |
| DETAILS: | |
| 1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS: Calculation errors | |
| 2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE: | |
| a. DATES AND TIME(S) OF SAMPLING: | |
| b. EXACT LOCATION(S) OF SAMPLING: | 🗹 Y 🗆 N 🗆 NA 🗇 NE |
| c. NAME OF INDIVIDUAL PERFORMING SAMPLING: | |
| d. ANALYTICAL METHODS AND TECHNIQUES: | |
| e. RESULTS OF CALIBRATIONS: | |
| f. RESULTS OF ANALYSES: | |
| g. DATES AND TIMES OF ANALYSES: | Øy 🛛 n 🗆 na 🖾 ne |
| h. NAME OF PERSON(S) PERFORMING ANALYSES: | |
| 3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE: | Øs 🗆m 🗇u 🖾na 🖾ne |
| 4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR: | Øs 🗆m 🗇u 🖾na 🖾ne |
| 5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA: | Øy 🗆n 🗆na 🗇ne |
| | |
| SECTION C: OPERATIONS AND MAINTENANCE TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED | |
| | |
| DETAILS: | |
| 1. TREATMENT UNITS PROPERLY OPERATED: | |
| 2. TREATMENT UNITS PROPERLY MAINTAINED: | |
| 3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED: In process of purchasing and installing a generator | |
| 4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE: | |
| 5. ALL NEEDED TREATMENT UNITS IN SERVICE: <u>One oxidation ditch drained for repair of fine bubble diffusers</u> | |
| 6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED: <u>31-Class VI & 2-Class III</u> | |
| 7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED: | |
| 8. OPERATION AND MAINTENANCE MANUAL AVAILABLE: | |
| 9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED: | |
| 10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED: | |
| 11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR: | |
| 12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED: | |
| 13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS: | |
| 14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT: | |
| 15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT: | |
| | |

| SECTION D: SAMPLING | |
|--|------------------|
| PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS | □s Øm □u □na □ne |
| DETAILS: | |
| 1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT: | Øy 🛛 n 🖓 na 🖓 ne |
| 2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES: | Øy 🛛 n 🖓 na 🖓 ne |
| 3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT: | Øy 🛛 n 🖓 na 🖓 ne |
| 4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT: | Øy 🛛 n 🖓 na 🖓 ne |
| 5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT: | Øy 🛛 n 🖓 na 🖓 ne |
| 6. SAMPLE COLLECTION PROCEDURES ADEQUATE: Composite started before 1000 | |
| a. SAMPLES REFRIGERATED DURING COMPOSITING: | Øy 🛛 n 🖓 na 🖓 ne |
| b. PROPER PRESERVATION TECHNIQUES USED: | My On Ona One |
| c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136: | |
| 7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR: | DY DN ØNA DNE |
| | |
| SECTION E: FLOW MEASUREMENT | |
| PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS | |
| DETAILS: Sigma 980 with magnetic partial pipe meter | • |
| 1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: TYPE OF DEVICE: | |
| 2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED: | |
| 3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: | |
| 4. CALIBRATION FREQUENCY ADEQUATE: <u>Meter is due for recalibration.</u> | |
| 5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES: | |
| 6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE: | |
| 7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE: | |
| 8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES: | |
| 9. HEAD MEASURED AT PROPER LOCATION: | |
| | |
| SECTION F: LABORATORY | |
| PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS | |
| DETAILS: | • |
| 1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) : | Øy 🛛 n 🗆 na 🗠 ne |
| 2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED: | Dy Dn Øna Dne |
| 3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT: Thermometers need to be reca | |
| 4. QUALITY CONTROL PROCEDURES ADEQUATE: | |
| 5. DUPLICATE SAMPLES ARE ANALYZED <a>10% OF THE TIME: | |
| 6. SPIKED SAMPLES ARE ANALYZED ≥10% OF THE TIME: | |
| 7. COMMERCIAL LABORATORY USED: | |
| a. LAB NAME: ETC (Environmental Testing and Consulting) | |
| b. LAB ADDRESS: Memphis, TN | |
| c. PARAMETERS PERFORMED: FCB & Acute Toxicity | |
| 8. BIOMONITORING PROCEDURES ADEQUATE: | |
| a. PROPER ORGANISMS USED: | |
| b. PROPER DILUTION SERIES FOLLOWED: | |
| c. PROPER TEST METHODS AND DURATION: | |
| d. RETESTS AND/OR TRE PERFORMED AS REQUIRED: | |
| | |

| SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS | | | | | | | | | | | | |
|---|--|---------------------|----------------------|-------------------|---------------------|------------------|---------------|--|--|--|--|--|
| BASED | BASED ON VISUAL OBSERVATIONS ONLY | | | | | | | | | | | |
| DETAIL | S: Observation m | ade downstrear | n of UV system | and in the efflu | uent wet well. The | ere was a smal | l amount of | | | | | |
| suspended and floating material resembling plastic or polystyrene. It is unlikely this causes a visible impact on the | | | | | | | | | | | | |
| receiving stream. | | | | | | | | | | | | |
| OUTFALL | ALL #: OIL SHEEN GREASE TURBIDITY VISIBLE FOAM FLOATING SOLIDS | | | | COLOR | OTHER | | | | | | |
| 001 | None | Clear | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | ON H: SLUDGE | | | | | | | | | | | |
| SLUDG | E DISPOSAL ME | ETS PERMIT F | | TS | | ⊠s ⊡m ⊡ | U 🗆 NA 🗆 NE | | | | | |
| DETAIL | .S: Sludge goes to | the Shelby Co | unty Landfill (Te | <u>ennessee)</u> | | | | | | | | |
| 1. SLUD | GE MANAGEMENT ADEQU | JATE TO MAINTAIN EF | FLUENT QUALITY: | | | | | | | | | |
| 2. SLUD | GE RECORDS MAINTAINE | D AS REQUIRED BY 40 |) CFR 503: | | | ⊠s ⊡m | | | | | | |
| 3. FOR L | AND APPLIED SLUDGE, T | YPE OF LAND APPLIE | D TO: (E.G., FOREST, | AGRICULTURAL, PUE | BLIC CONTACT SITE): | | | | | | | |
| | | | | | | | | | | | | |
| | ON I: SAMPLIN | | | | I | | | | | | | |
| | E RESULTS WITH | HIN PERMIT R | EQUIREMENT | S | | □s □m □ | U ØNA □NE | | | | | |
| DETAIL | .S: | | | | | | | | | | | |
| | LES OBTAINED THIS INSP | | | | | ΠY | | | | | | |
| 2. TYPE | OF SAMPLE: GRAB: | | IETHOD: FREQUE | NCY: | | | | | | | | |
| 3. SAMP | LES PRESERVED: | | | | | ΠY | ON ONA ONE | | | | | |
| 4. FLOW | PROPORTIONED SAMPLE | ES OBTAINED: | | | | ΠY | | | | | | |
| 5. SAMP | LE OBTAINED FROM FACI | LITY'S SAMPLING DE | ICE: | | | ΠY | | | | | | |
| 6. SAMP | LE REPRESENTATIVE OF | VOLUME AND NATUR | E OF DISCHARGE: | | | ΠY | | | | | | |
| 7. SAMP | LE SPLIT WITH PERMITTE | E: | | | | ΠY | ON ONA ONE | | | | | |
| 8. CHAIN | I-OF-CUSTODY PROCEDU | RES EMPLOYED: | | | | ΠY | ON ONA ONE | | | | | |
| 9. SAMP | LES COLLECTED IN ACCO | RDANCE WITH PERM | IT: | | | ΠY | | | | | | |
| | | | | | | | | | | | | |
| - | ON J: STORM \ | | | | | | | | | | | |
| STORM | 1 WATER MANAG | EMENT MEET | S PERMIT RE | QUIREMENTS | | □s □m Ø | | | | | | |
| | S: No-Exposure E | | | | | | | | | | | |
| | does not meet the | | or keeping a No | -Exposure Exc | lusion – A separa | te letter and in | spection will | | | | | |
| | to address this dealer PP UPDATED AS NEEDED: | | | | | | | | | | | |
| | _ | | | | | | | | | | | |
| | 2. SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS: | | | | | | | | | | | |
| | 3. POLLUTION PREVENTION TEAM IDENTIFIED: | | | | | | | | | | | |
| | 4. POLLUTION PREVENTION TEAM PROPERLY TRAINED: Image: Constraint of the second sec | | | | | | | | | | | |
| | 5. LIST OF POTENTIAL POLLUTANT SOURCES: □Y □N ☑NA □NE 6. LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS: □Y □N ☑NA □NE | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 8. LIST OF STRUCTURAL BMPS: Image: Construction of the structural structura | | | | | | | | | | | |
| | DF NON-STRUCTURAL BM | | | | | | | | | | | |
| | PROPERLY OPERATED A | | | | | | On Øna One | | | | | |
| | CTIONS CONDUCTED AS | | | | | | | | | | | |

FLOW CALCULATION SHEET

Facility does not have a primary manual flow measuring device. A flow calibration check could not be performed.

Date: _____ Time: _____

Head in Inches: _____ Feet: ____

Type & Size of Primary Flow Measurement Device:

Name & Model of Secondary Flow Measurement Device:

Recorded Flow at Date & Time Listed Above: ______ (Facility Flow Meter)

Calculated Flow at Date & Time Listed Above: (Flow is calculated using flow charts in: <u>ISCO Open Channel Flow Measurement Handbook-5th Edition</u>)

% Error = <u>Recorded Value</u> - <u>Calculated Value</u> X 100 Calculated Value

% Error = _____ X 100

- % Error = _____ X 100
- % Error = _____ X 100

% Error = _____ %

Comments:

DMR Calculation Check

| Reporting Period: | From <u>07</u> Year | 3 Month | Day | To <u>07</u> Year | 3 Month | <u>31</u> Day | | | | |
|--------------------------|------------------------|------------|---------|--------------------------|------------|------------------|--|--|--|--|
| Parameter Checked: BOD | | | | | | | | | | |
| | Loading Mass | | | Concentration Monthly | | | | | | |
| | Mo. Avg lbs/d | lay | Mo. Av | g mg/l | 7-day Avg | mg/l | | | | |
| Reported Value: | 153 | | 4.4 | | 12.5 | | | | | |
| Calculated Value: | 153 | | 4.4 | | 5.1 | | | | | |
| Permit Value: | Permit Value: 1126 | | 3 | 30 | 45 | | | | | |

If calculated value does not equal reported value, explain: <u>Calculation error by permittee</u> <u>Week of Feb. 25 – Mar. 3 = 5.1 mg/l</u>

DMR Calculation Check

| Reporting Period: | From <u>07</u> Year | 3 Month | 1 Day | То | 07 Year | 3 Month | <u>31</u> Day | | |
|--------------------------|------------------------|------------|----------|--------------------------|------------|------------|------------------|--|--|
| Parameter Checked: | FCB | - | | | | | | | |
| | Loading Mass | | | Concentration Monthly | | | | | |
| | Mo. Avg lbs/o | day | Mo. Av | vg 1 | mg/l | 7-day Avg | mg/l | | |
| Reported Value: | | | 7 | 4.5 | | 142. | 7 | | |
| Calculated Value: | | | , | 76 | | 180 |) | | |
| Permit Value: | | | 1 | 000 | | 200 | 0 | | |

If calculated value does not equal reported value, explain:

Permittee was incorrectly calculating and reporting the 7-day Average.

NPDES Compliance Inspection Report Further Explanation

- 1. Improper reporting of 7-day averages; this violates Part IV Section A: Definition 18. "7-day average" discharge limitation, other than for fecal coliform bacteria, is the highest allowable arithmetic means of the values for all effluent samples collected during the calendar week. The 7-day average for fecal coliform bacteria is the geometric mean of the values of all effluent samples collected during the calendar week in colonies/100 ml. The DMR should report the highest 7-day average obtained during the calendar month. For reporting purposes, the 7-day average values should be reported as occurring in the month in which the Saturday of the calendar week falls in.
- 2. Improper sample collection; this violates Part IV Section A: Definition 22. "6-hour composite sample" consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow. The first sample portion was being collected earlier than 10:00 a.m.
- 3. There was a calculation error in the March 2007 DMR. The 7-day average for BOD was incorrectly reported as 12.5 mg/l. The correct 7-day average for BOD was 5.1 mg/l.