

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION**

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|---|
| PERMITTEE NAME City of Cave Springs |
| PERMITTEE ADDRESS P.O. Box 36 Cave Springs, Ar 72718 |

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|---|
| FACILITY NAME (IF DIFFERENT) Plant #1 |
| FACILITY ADDRESS 1499 1/2 S. Main |

| |
|--------------------------------|
| PERMIT NO. 4873-WP-L |
| WAFIN NO. 04-01642 |

MAKE ADDITIONAL COPIES OF THIS FORM FOR FUTURE USE. SUBMIT LAB ANALYSES WITH THIS FORM.

| WASTEWATER EFFLUENT MONITORING PERIOD | |
|---------------------------------------|--------------|
| MM/DD/YYYY | MM/DD/YYYY |
| FROM 3-01-2014 | TO 3-31-2014 |

| TREATED WASTEWATER EFFLUENT SAMPLING | | | | | | |
|---|--------------------|--------------------|-----------|-----------------------|-------------|------------|
| PARAMETER | PERMIT REQUIREMENT | SAMPLE MEASUREMENT | UNITS | FREQUENCY OF ANALYSIS | SAMPLE TYPE | |
| PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE | ***** | 5.2 | MG/L | ONCE/MONTH | GRAB | |
| CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE | — | 11.0 | MG/L | ONCE/MONTH | GRAB | |
| PH EFFLUENT GROSS VALUE | 6 to 9 | 7.3 | S.U. | ONCE/MONTH | GRAB | |
| SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE | — | 22.0 | MG/L | ONCE/MONTH | GRAB | |
| COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE | — | 8100 | N/100 ML | ONCE/MONTH | GRAB | |
| NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE | ***** | 30.20 | MG/L | ONCE/MONTH | GRAB | |
| NITROGEN, AMMONIA TOTAL (AS NH ₃ -N) EFFLUENT GROSS VALUE | ***** | 0.3 | MG/L | ONCE/MONTH | GRAB | |
| NITROGEN, NITRATE + NITRITE (AS NO ₃ -N + NO ₂ -N) EFFLUENT GROSS VALUE | ***** | 22.19 | MG/L | ONCE/MONTH | GRAB | |
| PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE | | 31.5 | MG/L | ONCE/MONTH | GRAB | |
| FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE | ***** | MONTHLY TOTAL | DAILY MAX | MGD | ONCE/MONTH | TOTAL FLOW |
| | | 0.164 | 0.033 | | | |

| | | | | | |
|--|---|--|--------------|------------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Rick Sayre Water-Sewer Superintendent | I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Rick A Sayre | TELEPHONE | | DATE |
| | | | 479-721-7539 | 04-01-2014 | |
| TYPED OR PRINTED | | | AREA CODE | NUMBER | MM/DD/YYYY |

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)
Total Suspended Solids, were a little high this month, we had just cleaned the filters at the sewer plants. This might be the cause of the high readings.

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1403020027
 Customer Name : CAVE SPRINGS, CITY OF
 Customer/Permit No. : 1826 / 4893-WR-2
 Report Date : 03/17/14

Sample Date : 03/05/14
 Sample Time : 1320
 Sample Type : GRAB
 Sample From : EFFLUENT DOSE TANK

Collected By: WDS
 Delivery By : WDS
 Work Order :
 Purchase Order :

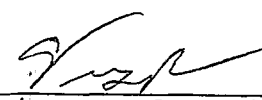
| <u>Laboratory Analysis</u> | | | | | | <u>Quality Assurance</u> | | |
|----------------------------|-------------|-----------|---------------------------|--------------|-----------------|--------------------------|------------------|-----------------|
| <u>Analysis</u> | | | <u>Result</u> | <u>Notes</u> | <u>Quantity</u> | <u>Method</u> | <u>Precision</u> | <u>Accurac</u> |
| <u>Date</u> | <u>Time</u> | <u>By</u> | <u>Parameter</u> | | | | <u>% RPD</u> | <u>% Recove</u> |
| 03/14 | 0945 | TSB | Ammonia Nitrogen | 0.3 mg/L | | SM 1997 4500-NH3 F | 4.39 | 101.0 |
| 03/10 | 1025 | TSB | Kjeldahl Nitrogen Total | 30.20 mg/L | | SM 18th 4500-NorgB | 2.93 | 102.0 |
| 03/07 | 1300 | TSB | Nitrate Nitrogen | 18.48 mg/L | | SM 18th 4500-NO3 E | 0.00 | 110.0 |
| 03/06 | 0915 | KIK | Nitrite Nitrogen | 3.710 mg/L | | SM 18th 4500 NO2 B | 1.19 | 101.0 |
| 03/05 | 1320 | WDS | pH | 7.3 S.U. | | SM 18th 4500-H+ B | 0.00 | N/A |
| 03/07 | 1100 | TSB | Phosphorous, Total (as P) | 5.2 mg/L | | EPA 365.3 | 0.00 | 96.0 |
| 03/06 | 1200 | KIK | Solids, Total Suspended | 22.0 mg/L | (b) | SM 1997 2540D | 0.00 | N/A |
| 03/05 | 1600 | TSB | Coliform, Fecal | 8100 /100ml | | 1997 SM 9222 D | 0.00 | N/A |
| 03/05 | 1600 | KIK | BOD, Carbonaceous | 11.0 mg/L | | SM 2001 5210B | 0.00 | 100.8 |
| 03/10 | 1015 | TSB | Solids, % Total | 0.022 % | | SM 18th 2540G | 0.00 | N/A |
| 03/14 | 1300 | RHB | Nitrogen, Plant Available | 31.5 mg/L | | SM 18th 4500-NH3E | | |

* QA data shown is from a different sample or standard on the same date.

(b) Exceeds Permit Limits for Maximum Concentration

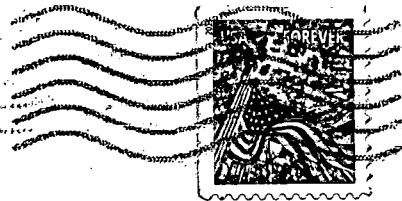
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature


 Environmental Services Co., Inc.

City of Cave Springs
P.O. Box 36
Cave Springs, AR 72718

NORTHWEST AR P&DF
AR 727-1 T
01 APR 2014 PM



ADEQ
Enforcement Section/Water Div.
5301 Northshore Dr.
North Little Rock, AR 72118

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