

# Environmental Services Company, Inc.

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 13715 West Markham  
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 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: 1309020026  
 Customer Name : CAVE SPRINGS, CITY OF  
 Customer/Permit No. : 1826 / 4893-WR-2  
 Report Date : 09/13/13

Sample Date : 09/04/13  
 Sample Time : 1200  
 Sample Type : GRAB  
 Sample From : EFFLUENT DOSE TANK

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

| Analysis |      |     | Laboratory Analysis       |            |       |          | Quality Assurance  |                    |                       |
|----------|------|-----|---------------------------|------------|-------|----------|--------------------|--------------------|-----------------------|
| Date     | Time | By  | Parameter                 | Result     | Notes | Quantity | Method             | Precision<br>% RPD | Accuracy<br>% Recover |
| 09/06    | 1230 | TSB | Ammonia Nitrogen          | 6.1 mg/L   |       |          | SM 18th 4500-NH3 H | 1.46               | 87.0                  |
| 09/05    | 1400 | TSB | Kjeldahl Nitrogen Total   | 9.00 mg/L  |       |          | SM 18th 4500-NorgB | 2.52               | 111.0                 |
| 09/12    | 0900 | MNM | Nitrate Nitrogen          | 38.61 mg/L |       |          | SM 18th 4500-NO3 E | 2.67               | 93.8                  |
| 09/06    | 1530 | KIK | Nitrite Nitrogen          | 0.046 mg/L |       |          | SM 18th 4500 NO2 B | 1.77               | 103.9                 |
| 09/04    | 1200 | WDS | pH                        | 6.0 S.U.   |       |          | SM 18th 4500-H+ B  | 1.83               | N/A                   |
| 09/05    | 0100 | TSB | Phosphorous, Total (as P) | 6.0 mg/L   |       |          | EPA 365.3          | 2.15               | 102.0                 |
| 09/06    | 1315 | KIK | Solids, Total Suspended   | 4.0 mg/L   |       |          | SM 18th 2540D      | 0.00               | N/A                   |
| 09/04    | 1400 | MNM | Coliform, Fecal           | < 2 /100ml |       |          | SM 18th 9222D      | 0.00               | N/A                   |
| 09/04    | 1330 | KIK | BOD, Carbonaceous         | < 2.0 mg/L |       |          | SM 18th 5210B      | 18.18              | 103.5                 |
| 09/10    | 1535 | KIK | Solids, % Total           | 0.046 %    |       |          | SM 18th 2540G      | 18.18              | N/A                   |
| 09/13    | 0620 | MNM | Nitrogen, Plant Available | 45.6 mg/L  |       |          | SM 18th 4500-NH3E  |                    |                       |

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

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.

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

|  |
|--|
| <b>PERMITTEE NAME</b><br>City of Cave Springs                    |
| <b>PERMITTEE ADDRESS</b><br>P.O. Box 36<br>Cave Springs AR 72718 |

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

|                                |
|--------------------------------|
| <b>PERMIT NO.</b><br>4883-WR-2 |
| <b>AFIN NO.</b><br>04-01642    |

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

|  |               |
|--|---------------|
| <b>WASTEWATER EFFLUENT MONITORING PERIOD</b> |               |
| MM/DD/YYYY<br>FROM 09-01-2013                | TO 09-30-2013 |

**TREATED WASTEWATER EFFLUENT SAMPLING**

| PARAMETER  | EFFLUENT | PERMIT REQUIREMENT | SAMPLE MEASUREMENT | UNITS     | FREQUENCY OF ANALYSIS | SAMPLE TYPE |            |
|--|----------|--------------------|--------------------|-----------|-----------------------|-------------|------------|
| PHOSPHOROUS, TOTAL (AS P) GROSS VALUE  |          | *****              | 6.0                | MG/L      | ONCE/MONTH            | GRAB        |            |
| CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE   |          | ---                | 2.0                | MG/L      | ONCE/MONTH            | GRAB        |            |
| PH EFFLUENT GROSS VALUE  |          | 6 to 9             | 6.0                | S.U.      | ONCE/MONTH            | GRAB        |            |
| SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE   |          | ---                | 4.0                | MG/L      | ONCE/MONTH            | GRAB        |            |
| COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE   |          | ---                | 2                  | N/100 ML  | ONCE/MONTH            | GRAB        |            |
| NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE                                       |          | *****              | 9.0                | MG/L      | ONCE/MONTH            | GRAB        |            |
| NITROGEN, AMMONIA TOTAL (AS NH <sub>3</sub> N) EFFLUENT GROSS VALUE                          |          | *****              | 6.1                | MG/L      | ONCE/MONTH            | GRAB        |            |
| NITROGEN, NITRATE + NITRITE (AS NO <sub>3</sub> N + NO <sub>2</sub> -N) EFFLUENT GROSS VALUE |          | *****              | 38.564             | MG/L      | ONCE/MONTH            | GRAB        |            |
| PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE   |          |                    | 45.6               | MG/L      | ONCE/MONTH            | GRAB        |            |
| FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE                                    |          | *****              | MONTHLY TOTAL      | DAILY MAX | MGD                   | ONCE/MONTH  | TOTAL FLOW |
|  |          |                    | 0.462              | 0.044     |                       |             |            |

|   |   |  |           |          |            |
|---|---|--|-----------|----------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br>Rick A. Sayre<br>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<br><i>Rick A. Sayre</i> | TELEPHONE |          | DATE       |
|   |   |  | 479       | 721-7539 | 10-01-2013 |
| TYPED OR PRINTED  |   |  | AREA CODE | NUMBER   | MM/DD/YYYY |

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

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

NORTHWEST AR PADE  
AR 72721  
01 OCT 2013 PM



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

72118+5317

