

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

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

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

<b>PERMIT NO.</b> 4893-WK-2
<b>AFIN NO.</b> 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 10-01-2012	TO 10-31-2012

**TREATED WASTEWATER EFFLUENT SAMPLING**

PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	*****	6.3	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	3.9 - 7.7	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	—	0.05	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE	—	40	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	*****	8.40	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH <sub>3</sub> -N) EFFLUENT GROSS VALUE	*****	6.4	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO <sub>3</sub> -N + NO <sub>2</sub> -N) EFFLUENT GROSS VALUE	*****	45.012	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE		52.0	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	*****	MONTHLY TOTAL	DAILY MAX	MGD	ONCE/MONTH	TOTAL FLOW
		0.30	0.011			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Rick Saure 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 <i>Rick A Saure</i>	TELEPHONE	DATE	
			479 721-7539	11-05-2012	
TYPED OR PRINTED			AREA CODE	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)  
 pH WAS LOW ON FIRST TEST, ADDED SODA ASH AND RETESTED P. H WHICH AT THAT TIME, IT WAS 7.7.

# 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: 1210020465  
 Customer Name : CAVE SPRINGS, CITY OF  
 Customer/Permit No. : 1826 / 4893-WR-2  
 Report Date : 10/30/12

Sample Date : 10/23/12  
 Sample Time : 1230  
 Sample Type : GRAB  
 Sample From : EFFLUENT

Collected By: KIK  
 Delivery By : KIK  
 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>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
10/24	0815	MNM	Ammonia Nitrogen	6.4 mg/L		SM 18th 4500-NH3 H	2.15	98.3
10/24	0800	KIK	Kjeldahl Nitrogen Total	8.40 mg/L		SM 18th 4500-NorgB	5.28	94.9 *
10/30	0900	MNM	Nitrate Nitrogen	44.95 mg/L		SM 18th 4500-NO3 E	5.26	96.1 *
10/24	1000	MNM	Nitrite Nitrogen	0.062 mg/L		SM 18th 4500 NO2 B	3.68	97.0 *
10/23	1230	KIK	pH	3.9 S.U.	(b)	SM 18th 4500-H+ B	0.00	N/A *
10/24	0800	MNM	Phosphorous, Total (as P)	6.3 mg/L		EPA 365.3	4.00	105.6 *
10/24	1505	SJI	Solids, Total Suspended	12.0 mg/L		SM 18th 2540D	66.67	N/A *
10/23	1445	SJI	Coliform, Fecal	40 /100ml		SM 18th 9222D	0.00	N/A *
10/24	1400	SJI	BOD, Carbonaceous	< 2.0 mg/L		SM 18th 5210B	50.00	105.0 *
10/25	1140	MNM	Solids, % Total	0.050 %		SM 18th 2540G	0.27	N/A *
10/30	1515	RHB	Nitrogen, Plant Available	52.0 mg/L		SM 18th 4500-NH3E		

\* QA data shown is from a different sample or standard on the same date.  
 (b) Under Minimum Permit Limits

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 Richard Brown  
 Environmental Services Co., Inc.

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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1210020583  
 Customer Name : CAVE SPRINGS, CITY OF  
 Customer/Permit No. : 1826 / 4893-WR-2  
 Report Date : 10/31/12

Sample Date : 10/31/12  
 Sample Time : 1400  
 Sample Type : GRAB  
 Sample From : EFFLUENT/DOSE TANK

Collected By: KIK  
 Delivery By : KIK  
 Work Order :  
 Purchase Order :

Analysis		<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u> <u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
							<u>% RPD</u>	<u>% Recovery</u>
10/31	1400 KIK	pH	7.7 S.U.			SM 18th 4500-H+ B	0.00	N/A

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

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Signature Richard Brown  
 Environmental Services Co., Inc.

City of Cave Springs  
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Freedom

FOREVER

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