

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

**PERMITTEE NAME**

Waterford Estates at Hissom Ranch POA

**PERMITTEE ADDRESS**

3567 W New Hope Rd  
Rogers, AR 72756

**FACILITY NAME (IF DIFFERENT)**

Waterford Estates at Hissom Ranch POA

**FACILITY ADDRESS**

2323 Bowen Blvd  
Fayetteville AR 72703

**PERMIT NO.**

4815-WR-4

**AFIN NO.**

72-00974

**WASTEWATER EFFLUENT MONITORING PERIOD**

MM/DD/YYYY


10/1/2016

MM/DD/YYYY

10/31/2016

**TREATED WASTEWATER EFFLUENT SAMPLING**

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.869012	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximun	REPORT	0.030388	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	< 2	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	15	7	mg/l		
Fecal Coliform Bacteria (FCB)	2,000	< 4	colonies/100ml		
pH	6.0 - 9.0	7.5	s.u.		
Total Phosphorus (TP)	REPORT	7.7	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	23.5	mg/l	Grab sample once per quarter	
Ammonia Nitrogen (NH3-N)	REPORT	18.8	mg/l		
Nitrate Nitrogen ( NO3-N) + Nitrite Nitrogen ( NO2-N)	REPORT	18.4	mg/l		
Plant Available Nitrogen (PAN)	REPORT	38.6	mg/l		
Loading Rate	REPORT	See Attached	gpd/ft 2	Daily	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.	 <b>SIGNATURE OF PRINCIPAL</b> <b>EXECUTIVE OFFICER OR</b> <b>AUTHORIZED AGENT</b>	TELEPHONE	DATE
			(479) 530-5926	11/12/2016
TYPED OR PRINTED				MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (*Reference all attachments here*)

WATERFORD ESTATES LOADING RATES Oct 2016 30,388 Daily Max

Zone Identification	GPD/sq 2
Zone 1A	2,522
Zone 1B	2,401
Zone 2A	2,401
Zone 2B	2,279
Zone 3A	2,401
Zone 3B	2,401
Zone 4A	2,401
Zone 4B	2,401
Zone 5A	2,659
Zone 5B	2,784
Zone 6A	2,659
Zone 6B	3,039

## 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: 1610020222  
Customer Name : GREENFIELD CAP DEV-WATERFORD  
Customer/Permit No. : 1886 / 4815-WR-4  
Report Date : 10/25/16

Sample Date : 10/19/16  
Sample Time : 0925  
Sample Type : GRAB WATERFORD  
Sample From : DOSE TANK EFFLUENT

Collected By: JB  
Delivery By : JB  
Work Order :  
Purchase Order :

### Laboratory Analysis

## Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method
10/20	1015	TSB	Ammonia Nitrogen	18.8 mg/L			SM 1997 4500-NH3 F
10/24	0900	TSB	Kjeldahl Nitrogen Total	23.50 mg/L			SM 1997 4500-NorgB
10/19	0925	JCB	pH	7.5 S.U.			SM 2000 4500-H+ B
10/20	1300	TSB	Phosphorous, Total (as P)	7.7 mg/L			EPA 365.3
10/24	1600	RHB	Solids, Total Suspended	7.0 mg/L			SM 1997 2540 D
10/19	1600	JCB	Coliform, Fecal	< 4 /100ml			SM 9222 D 1997
10/19	1400	TSB	BOD, Carbonaceous	< 2.1 mg/L			SM 2001 5210 B
10/24	1600	TSB	Nitrate + Nitrite	18.4 mg/L			SM 2000 4500-NO3 E
10/25	0800	TSB	Nitrogen, Plant Available	38.6 mg/L			SM 1997 4500-N

## Quality Assurance

Precision	Accuracy
% RPD	% Recovery
0.00	103.0 *
1.46	100.9 *
1.36	N/A *
0.00	101.8 *
0.00	N/A *
0.00	N/A *
1.75	92.6 *
3.35	100.4 *

\* 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

Richard Brown  
Environmental Services Co., Inc.

Carlsbad, New Mexico  
575-887-1ESC

## CHAIN OF CUSTODY