

**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-1

**AFIN NO.**

72-00974

**WASTEWATER EFFLUENT MONITORING PERIOD**

<b>MM/DD/YYYY</b>	<b>MM/DD/YYYY</b>
8/1/2016	8/31/2016

**TREATED WASTEWATER EFFLUENT SAMPLING**

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.763488	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.029475	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	< 2	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	15	3.3	mg/l		
Fecal Coliform Bacteria (FCB)	2,000	< 2	colonies/100ml		
pH	6.0 - 9.0	7.1	s.u.		
Total Phosphorus (TP)	REPORT	8.1	mg/l	Grab sample once per quarter	
Total Kjeldahl Nitrogen (TKN)	REPORT	No Report	mg/l		
Ammonia Nitrogen (NH <sub>3</sub> -N)	REPORT	No Report	mg/l		
Nitrate Nitrogen (NO <sub>3</sub> -N) + Nitrite Nitrogen (NO <sub>2</sub> -N)	REPORT	No Report	mg/l		
Plant Available Nitrogen (PAN)	REPORT	No Report	mg/l		
Loading Rate	REPORT	See Attached	gpd/ft <sup>2</sup>	Daily	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Kathy Bartlett  TYPED OR PRINTED	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 EXECUTIVE OFFICER OR AUTHORIZED AGENT</b>	TELEPHONE	DATE
			(479) 530-5926	9/8/2016  MM/DD/YYYY

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

WATERFORD ESTATES LOADING RATES	
Zone Identification	GPD/sq 2
Zone 1A	2,446
Zone 1B	2,329
Zone 2A	2,329
Zone 2B	2,211
Zone 3A	2,329
Zone 3B	2,329
Zone 4A	2,329
Zone 4B	2,329
Zone 5A	2,579
Zone 5B	2,700
Zone 6A	2,579
Zone 6B	2,947

# 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: 1608020135	Sample Date : 08/24/16	Collected By: JB
Customer Name : GREENFIELD CAP DEV-WATERFORD	Sample Time : 0830	Delivery By : JB
Customer/Permit No. : 1886 / 4815-WR-4	Sample Type : GRAB WATERFORD	Work Order :
Report Date : 08/29/16	Sample From : DOSE TANK EFFLUENT	Purchase Order :

### Laboratory Analysis

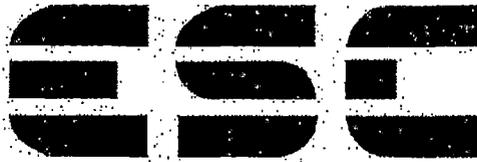
Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/24	0830	JCB	pH	7.1	S.U.		SM 2000 4500-H+ B	0.00	N/A *
08/26	1300	JCB	Phosphorous, Total (as P)	8.1	mg/L		EPA 365.3	0.00	101.2 *
08/25	1330	AEU	Solids, Total Suspended	3.3	mg/L		SM 1997 2540 D	0.00	N/A *
08/24	1045	JCB	Coliform, Fecal	< 2	/100ml		SM 9222 D 1997	0.00	N/A *
08/24	1400	TSE	BOD, Carbonaceous	< 2.0	mg/L		SM 2001 5210 B	0.41	98.4 *

\* 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.

Environmental Services Company, Inc.  
 Northwest Arkansas  
 1107 Century Street  
 Springdale, Arkansas 72762  
 website: www.esclabs.com



Corporate Office, Little Rock, Arkansas  
 501-221-2565

Carlsbad, New Mexico  
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

### CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters										
Company Name:		Waterford Estates				Permit/Project #:					pH(23)	F. Coliform(43)	CBOD(70), TSS(28), PAN(99.99)	NH3(15.A), Phos(25)	TKN(16.A), N+N(91)						
Address:		1695 Electric Avenue				Purchase Order #:															
		Springdale AR 72764				Sampler Name(s):		John Byrd													
Telephone:		(479)751-8868				and Signature(s):		John Byrd													
FAX:		(479)757-7650																			
ESC Client Number:		1886																			
Sample Identification		Sample Collection				Sample Containers				pH(23)	F. Coliform(43)	CBOD(70), TSS(28), PAN(99.99)	NH3(15.A), Phos(25)	TKN(16.A), N+N(91)							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Dose Tank/Effluent	1608020135	8/24/16	8:30	Grab	Water	Teflon	150 ml	none	1	X											
Waterford Estates				Grab	Water	whirlpak	300 ml	none/ice	1		X										
				Grab	Water	Plastic	1 qt	none/ice	1			X									
				Grab	Water	Plastic	8 oz	H <sub>2</sub> SO <sub>4</sub> , pH <2	1				X	X							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>									
John Byrd John Byrd		8/24/16	10:05	Richard Brown RICHARD BROWN		8/24/16	10:05	Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>									
Comments:		FLOW DATA				Field Test		Time	Analyst	Result	Result	Units									
						pH:		0830	JCB	7.06	7.04										
						Temp.:		✓	✓	38.0	27.5	°C									
						Reading:															
						Units:															
						Debris:															
Cool all samples to 6 degrees C.						Chlorinated? Yes No				This Document is Page 1 of 1											