

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

PERMITTEE NAME
CANE ISLAND SUBDIVISION

FACILITY NAME (IF DIFFERENT)
Cane Island Subdivision

PERMIT NO.:
4899-WR-2


PERMITTEE ADDRESS
DANNY HAMES
6800 SHADOW VALLEY ROAD
Rogers, AR 72756

FACILITY ADDRESS
west side of CR 7002 in northern Marion County

AFIN NO.:
45-00214

WASTEWATER EFFLUENT MONITORING PERIOD
FROM **MM/DD/YYYY** **MM/DD/YYYY**
1/1/2017 1/31/2017

TREATED WASTEWATER EFFLUENT SAMPLING						
PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT		UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	REPORT	24.5		MG/L	ONCE/ MONTH	GRAB
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE	15	3		MG/L	ONCE/ MONTH	GRAB
PH EFFLUENT GROSS VALUE	6 to 9	6.7		S.U.	ONCE/ MONTH	GRAB
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	15	15		MG/L	ONCE/ MONTH	GRAB
NITROGEN, AMMONIA TOTAL (AS N) EFFLUENT GROSS VALUE	REPORT	0.25		MG/L	ONCE/ MONTH	GRAB
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE	2,000	< 5		colonies/100ml	ONCE/ MONTH	GRAB
TOTAL KJELDAHL NITROGEN EFFLUENT GROSS VALUE	REPORT	55.36		MG/L	ONCE/ MONTH	GRAB
NITRATE NITROGEN EFFLUENT GROSS VALUE	REPORT	50.4		MG/L	ONCE/ MONTH	GRAB
NITRITE NITROGEN EFFLUENT GROSS VALUE	REPORT	0.045		MG/L	ONCE/ MONTH	GRAB
PLANT AVAILABLE NITROGEN EFFLUENT GROSS VALUE	REPORT	67.23		MG/L	ONCE/ MONTH	GRAB
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	REPORT	MONTHLY TOTAL	DAILY MAX	GPD	ONCE/ MONTH	TOTAL FLOW
		12,790	636			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Kathy Bartlett	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND 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	TELEPHONE		DATE
			479	530-5926	2/8/2017
TYPED OR PRINTED			AREA CODE	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

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: 1701010150
 Customer Name : CANE ISLAND ESTATES POA
 Customer Number : 3859
 Report Date : 01/13/17

Sample Date : 01/05/17
 Sample Time : 1104
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

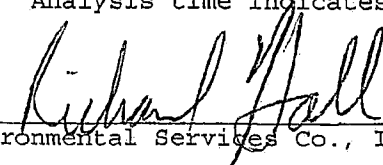
Collected By: TMO
 Delivery By : TMO
 Work Order : 111816-AEG2
 Purchase Order :

<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>	<u>% Recovery</u>
01/10	1240	DAH	Ammonia Nitrogen	0.25 mg/L		SM 1997 4500-NH3 F	4.55	112.2 *
01/06	1300	NTR	Kjeldahl Nitrogen Total	55.36 mg/L		SM 1997 4500-NorgB	0.00	100.0 *
01/06	0950	NTR	Nitrate Nitrogen	50.4000 mg/L		SM 2000 4500-NO3 E	0.67	98.3 *
01/06	0925	NTR	Nitrite Nitrogen	0.0450 mg/L		SM 2000 4500-NO2 B	2.54	97.7
01/05	1109	TMO	pH	6.7 S.U.		SM 2000 4500-H+B	1.48	N/A *
01/10	1100	PDH	Phosphorous, Total (as P)	24.50 mg/L		EPA 365.3	1.55	111.0 *
01/09	1330	PDH	Solids, Total Suspended	15.00 mg/L		SM 1997 2540 D	0.00	N/A *
01/06	1330	NTR	Nitrogen, Plant Available	67.23 mg/L		33 MSA 2nd Ed		
01/05	1555	TMO	Coliform, Fecal	< 5 /100ML		SM 1997 9222 D	0.00	N/A
01/06	0600	DWC	BOD, Carbonaceous	3.00 mg/L		SM 2001 5210 B	0.00	100.0 *
01/10	1500	PDH	Solids, % Total	0.088 %		SM 1997 2540 G	6.06	N/A *

* 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
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.

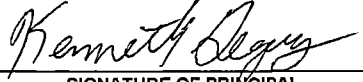
72-00974

WASTEWATER EFFLUENT MONITORING PERIOD

MM/DD/YYYY	MM/DD/YYYY
1/1/2017	1/31/2017

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.922765	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.036265	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	< 2	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	15	< 2	mg/l		
Fecal Coliform Bacteria (FCB)	2,000	56	colonies/100ml		
pH	6.0 - 9.0	7.8	s.u.		
Total Phosphorus (TP)	REPORT	7.2	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	53.76	mg/l	Grab sample once per quarter	
Ammonia Nitrogen (NH3-N)	REPORT	52.7	mg/l		
Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N)	REPORT	7.8	mg/l		
Plant Available Nitrogen (PAN)	REPORT	60.8	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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
			(479) 530-5926	2/8/2017
TYPED OR PRINTED				MM/DD/YYYY

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

WATERFORD ESTATES LOADING RATES *Jan 2017*

Zone Identification	GPD/sq 2
Zone 1A	3,010
Zone 1B	2,865
Zone 2A	2,865
Zone 2B	2,720
Zone 3A	2,865
Zone 3B	2,865
Zone 4A	2,865
Zone 4B	2,865
Zone 5A	3,173
Zone 5B	3,322
Zone 6A	3,173
Zone 6B	3,627

Environmental Services Company, Inc.

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 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: 1701020172	Sample Date : 01/18/17	Collected By: JB
Customer Name : GREENFIELD CAP DEV-WATERFORD	Sample Time : 0915	Delivery By : JB
Customer/Permit No. : 1886 / 4815-WR-4	Sample Type : GRAB WATERFORD	Work Order :
Report Date : 01/25/17	Sample From : DOSE TANK EFFLUENT	Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/18	1530	TSB	Ammonia Nitrogen	52.7 mg/L			SM 1997 4500-NH3 F	0.00	100.9 *
01/23	0930	TSB	Kjeldahl Nitrogen Total	53.76 mg/L			SM 1997 4500-NorgB	1.74	101.1 *
01/18	0915	JCB	pH	7.8 S.U.			SM 2000 4500-H+ B	0.00	N/A *
01/19	1130	TSB	Phosphorous, Total (as P)	7.2 mg/L			EPA 365.3	1.65	104.7 *
01/19	1150	AEU	Solids, Total Suspended	< 2.0 mg/L			SM 1997 2540 D	35.29	N/A *
01/19	1545	JCB	Coliform, Fecal	56 /100ml			SM 9222 D 1997	22.22	N/A *
01/18	1204	AEU	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	0.17	104.4 *
01/19	1000	TSB	Nitrate + Nitrite	7.8 mg/L			SM 2000 4500-NO3 E	0.90	104.7 *
01/24	0945	TSB	Nitrogen, Plant Available	60.8 mg/L			SM 1997 4500-N		
01/18	0915	JCB	Sample Collection/Travel	1 each					

* 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.

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): <i>John Byrd</i>																		
Telephone: (479)751-8868				and Signature(s): <i>John Byrd</i>																		
FAX: (479)757-7650																						
ESC Client Number: 1886																						
Sample Identification		Sample Collection				Sample Containers																
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#													
Dose Tank/Effluent	1701020172	1/18/17	0915	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 ₂ SO ₄ , pH <2	1				x	x								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?											
<i>John Byrd</i>		1/18/17	1030	<i>John Byrd</i>						<input checked="" type="checkbox"/>	<input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special											
										<input checked="" type="checkbox"/>	<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	No											
				<i>Robert Ambell</i>		1/18/17	1030			<input checked="" type="checkbox"/>	<input type="checkbox"/>											
Comments:				FLOW DATA		Field Test	Time	Analyst	Result	Result	Units											
				Analyst:		pH:	0915	JCB	7.8	7.8												
				Time:		Temp.:			12.3	12.3	°F											
				Reading:		DO:																
				Units:		Debris:																
Cool all samples to 6 degrees C.							Chlorinated? Yes No			This Document is Page <u>Yof</u> <u>Y</u>												