

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

PERMITTEE NAME Benton County, Arkansas Suburban Sewer District No 1 Villages of Cross Creek
PERMITTEE ADDRESS PO Box 9299 Fayetteville AR 72703

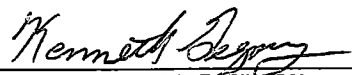
FACILITY NAME (IF DIFFERENT) Villages of Cross Creek
FACILITY ADDRESS 3302 N Dixieland Rd Little Flock AR

PERMIT NO. 4811-WR-4
AFIN NO. 04-00899

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

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.604462	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.025308	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	30	15.5	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	30	23.5	mg/l		
Fecal Coliform Bacteria (FCB)	10,000	10	colonies/100ml		
pH	6.0 - 9.0	7	s.u.		
Total Phosphorus (TP)	REPORT	6.1	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	34.72	mg/l	Grab sample once per quarter	
Ammonia Nitrogen	REPORT	22.2	mg/l		
Nitrate Nitrogen (NO ₃ -N) + Nitrite Nitrogen (NO ₂ -N)	REPORT	4.1	mg/l		
Plant Available Nitrogen (PAN)	REPORT	30.1	mg/l		
Loading Rate	REPORT	See Attached	gpd/ft 2	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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
			(479) 530-5926	2/9/2017 MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (*Reference all attachments here*) We feel the lab tech did not properly pull first sample, which made our solids higher. We met with lab and showed them how to pull future samples at this site, and they pulled second TSS sample which came back under permit limits. We will monitor in future. Drip Field repairs will be done as weather

permits.

VILLAGES OF CROSS CREEK LOADING RATES Jan 2017

Zone Identification	GPD/sq 2
1	2,860
2	2,860
3	2,860
4	2,860
5	2,860
6	2,860
7	3,391
8	3,948
9	Not used
10	Combined with 8
11	3,341
12	Not used
13	Not used
14	Not used
15	Not used
16	Not used
17	Not used

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: 1701020153	Sample Date : 01/13/17	Collected By: JB
Customer Name : DIXIELAND UTILITY LLC	Sample Time : 1035	Delivery By : JB
Customer/Permit No. : 1698 / 4811-WR-4 001	Sample Type : GRAB	Work Order :
Report Date : 01/20/17	Sample From : DOSE TANK EFFLUENT	Purchase Order :

Laboratory Analysis

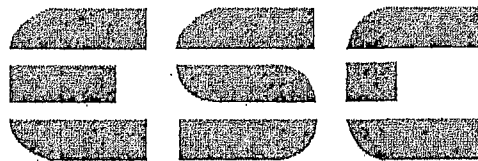
Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/13	1510	AEU	Ammonia Nitrogen	22.2 mg/L			SM 1997 4500-NH3 F	0.00	98.3 *
01/18	1300	TSB	Kjeldahl Nitrogen Total	34.72 mg/L			SM 1997 4500-NorgB	1.60	101.0 *
01/13	1035	JCB	pH	7.0 S.U.			SM 2000 4500-H+ B	0.00	N/A *
01/16	1315	TSB	Phosphorous, Total (as P)	6.1 mg/L			EPA 365.3	1.90	102.7
01/19	1150	AEU	Solids, Total Suspended	32.1 mg/L	(b)		SM 1997 2540 D	0.00	N/A *
01/13	1645	AEU	Coliform, Fecal	10 /100ml			SM 9222 D 1997	0.00	N/A *
01/13	1200	TSB	BOD, Carbonaceous	15.5 mg/L			SM 2001 5210 B	1.35	85.0 *
01/16	1440	TSB	Nitrate + Nitrite	4.1 mg/L			SM 2000 4500-NO3 E	1.42	99.6 *
01/19	1515	TSB	Nitrogen, Plant Available	30.1 mg/L			SM 1997 4500-N		

* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Maximum Concentration

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: Dixieland Utility LLC.				Permit/Project #:							pH(23)	Phos(25), NH ₃ -N(15.A)	TKN(16.A)N+N(91)	CBOD(70), TSS(28), PAN(99.99)	Fecal Coliform(43)						
Address: 3302 N. Dixieland				Purchase Order #:																	
Rogers AR				Sampler Name(s): <i>John Byrd</i>																	
Telephone: (479)936-0333 (Cell)				and Signature(s): <i>John Byrd</i>																	
Telephone:																					
ESC Client Number: 1698																					
Sample Identification		Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Dose Tank/Effluent	1701080153	1/13/17	1035	GRAB	Water	teflon	150 ml	none	1	X											
				GRAB	Water	Plastic	8 oz	H ₂ SO ₄ , pH<2	1		X	X									
				GRAB	Water	Plastic	1 qt	none/ice	1				X								
				GRAB	Water	Whirlpak	300ml	NaS ₂ O ₄	1					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> John Byrd		1/13/17	1230							<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>Amber...</i>		1/13/17	1235			<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Comments:				FLOW DATA		Field Test	Time	Analyst	Result	Result	Units										
				Analyst:		pH:	1235	JCB	7.0	7.0											
				Time:		Temp.:			17.6	17.5	°F										
				Reading:		DO:															
				Units:		Debris:															
Cool all samples to 6 degrees C.							Chlorinated? Yes No			This Document is Page <u>1</u> of <u>1</u>											

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Control Number: 1701020440	Sample Date : 01/31/17	Collected By: AU
Customer Name : DIXIELAND UTILITY LLC	Sample Time : 1104	Delivery By : AU
Customer/Permit No. : 1698 / 4811-WR-4 001	Sample Type : GRAB	Work Order :
Report Date : 02/01/17	Sample From : DOSE TANK EFFLUENT	Purchase Order :

Laboratory Analysis

Analysis						Quality Assurance			
<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>
01/31	0820	TSB	Solids, Total Suspended	23.5 mg/L			SM 1997 2540 D	% RPD	% Recovery
01/31	1104	AEU	Sample Collection/Travel	1 each				0.00	N/A *

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

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