

**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	MM/DD/YYYY
3/1/2016	3/31/2016

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.55324	MG	Total Flow per calendar month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.026784	MGD	Daily	
Carbonaceous Biochemical Oxygen Demand (CBOD5)	30	< 2	mg/l	Grab Sample once per month	
Total Suspended Solids (TSS)	30	9	mg/l		
Fecal Coliform Bacteria (FCB)	10,000	< 4	colonies/100ml		
pH	6.0 - 9.0	7	s.u.		
Total Phosphorus (TP)	REPORT	5.9	mg/l	Grab sample once per quarter	
Total Kjeldahl Nitrogen (TKN)	REPORT	35.84	mg/l		
Ammonia Nitrogen	REPORT	34.4	mg/l		
Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N)	REPORT	5.3	mg/l		
Plant Available Nitrogen (PAN)	REPORT	36.2	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	4/8/2016
TYPED OR PRINTED				MM/DD/YYYY

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

VILLAGES OF CROSS CREEK LOADING RATES

Zone Identification	GPD/sq 2
1	3,027.00
2	3,027.00
3	3,027.00
4	3,027.00
5	3,027.00
6	3,027.00
7	3,589
8	4,178.00
9	Reserve Zone
10	Combined with zone 8
11	3,535.00
12	Reserve Zone
13	Reserve Zone
14	Reserve Zone
15	Reserve Zone
16	Reserve Zone
17	Reserve Zone

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: 1603020100	Sample Date : 03/07/16	Collected By: RHB
Customer Name : GREENFIELD CAP DEV-VIL @ CC EFF	Sample Time : 1145	Delivery By : CS
Customer/Permit No. : 1698 / 4811-WR-2 001	Sample Type : GRAB VILLAGES	Work Order :
Report Date : 03/15/16	Sample From : DOSE TANK EFFLUENT	Purchase Order :

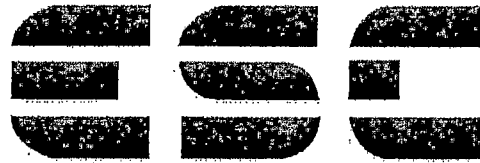
<u>Laboratory Analysis</u>						<u>Quality Assurance</u>		
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
03/10	1000	TSB	Ammonia Nitrogen	34.4 mg/L		SM 1997 4500-NH3 F	0.93	107.5 *
03/11	0815	TSB	Kjeldahl Nitrogen Total	35.84 mg/L		SM 1997 4500-NorgB	1.74	99.4 *
03/07	1145	RHB	pH	7.0 S.U.		SM 2000 4500-H+ B	0.00	N/A
03/10	1100	TSB	Phosphorous, Total (as P)	5.9 mg/L		EPA 365.3	0.00	100.0 *
03/11	1015	TSB	Solids, Total Suspended	9.0 mg/L		SM 1997 2540 D	0.00	N/A *
03/07	1700	RHB	Coliform, Fecal	< 4 /100ml		SM 1997 9222 D	10.35	N/A *
03/09	1200	TSB	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	4.05	107.6 *
03/10	1130	TSB	Nitrate + Nitrite	5.3 mg/L		SM 2000 4500-NO3 E	1.08	98.0 *
03/14	1045	TSB	Nitrogen, Plant Available	36.2 mg/L		SM 1997 4500-N		

* 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: Greenfield Capital-Villages @ Cross C				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): RICHARD BROWN																	
Telephone: (479)936-0333 (Cell)				and Signature(s): Richard Brown																	
Telephone:																					
ESC Client Number: 1698																					
Sample Identification			Sample Collection			Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Dose Tank/Effluent	1603020100	3-7-16	1145	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? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>									
Richard Brown RICHARD BROWN		3-7-16	1245					Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>									
				Chris Stone		3-7-16	1245														
Comments:				FLOW DATA		Field Test	Time	Analyst	Result	Result	Units										
				Analyst:		pH:	1145	RHB	6.96												
				Time:		Temp.:	+	-	20.4												
				Reading:		DO:															
				Units:		Debris:															
Cool all samples to 6 degrees C.						Chlorinated? Yes No				This Document is Page 1 of 1											