

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

PERMITTEE NAME Bethel Oaks Subdivision
PERMITTEE ADDRESS PO Box 3008 Fort Smith AR 72901


FACILITY NAME (IF DIFFERENT) Bethel Oaks Subdivision
FACILITY ADDRESS WA County Hwy 62 at Bethel Blacktop Rd Farmington AR

PERMIT NO. 4875-WR-1
AFIN NO. 72-01656

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	0.059447	MGD	Grab Sample once per month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.003769	MGD		
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	< 2	mg/l		
Total Suspended Solids (TSS)	15	76	mg/l		
Fecal Coliform Bacteria (FCB)	7,800	< 2	colonies/100ml		
pH	6.0 - 9.0	7.4	s.u.		
Total Phosphorus (TP)	REPORT	8.5	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	36.96	mg/l		
Ammonia Nitrogen	REPORT	36.5	mg/l		
Nitrate Nitrogen (NO3-N)	REPORT	8.89	mg/l		
Nitrite Nitrogen (NO2-N)	REPORT	1.03	mg/l		
Plant Available Nitrogen (PAN)	REPORT	46.6	mg/l		
Total Solids	REPORT	0.042	Percentage (%)		
Loading Rate	0.138	See Attached	gpd/ft 2	Continuous	

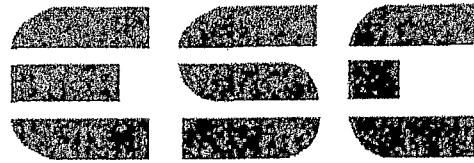
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Ken Gregory TYPED OR PRINTED	CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION 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	11/12/2016 MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)
 We feel the TSS was high due to removing 23,500 gallons of scum and sludge from the system tanks. We will monitor and report next month.

BETHEL OAKS LOADING RATES

Zone Identification	GPD/sq 2
Zone 1	520
Zone 2	520
Zone 3	520
Zone 4	520
Zone 5	520
Zone 6	520
Zone 7	520
Zone 8	520
Zone 9	520
Zone 10	520
Zone 11	520
Zone 12	520

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: New Water-Bethel Oaks		Address: Po Box 193805 N. Little Rock AR 72217		Telephone: 501-888-0500		Telephone:		ESC Client Number: 2127		Permit/Project #:		Purchase Order #:		Sampler Name(s): <i>John Byrd</i> <i>John Byrd</i>		and Signature(s):		pH(23) P(25), NH ₃ -N(15.A), NO ₃ (18), TKN(16.A) CBOD(70), TSS(28), NO ₂ (19) F. COLIFORM(43) %Solids (82), PAN(99.99)
Sample Identification		Sample Collection				Sample Containers												
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#									
EFFLUENT	1610020221	10/19/16	0830	GRAB	Water	teflon	150 ml	none	1	X								
EFFLUENT				GRAB	Water	Plastic	8 oz	H ₂ SO ₄ , pH<2	1		X							
EFFLUENT				GRAB	Water	Plastic	1 qt	none/ice	1			X			X			
EFFLUENT				GRAB	Water	Whirlpak	125 ml	Na ₂ S ₂ O ₃	1				X					
Cool all samples to 6 degrees C.																		
Relinquished By: (Signature and Printed Name) <i>John Byrd</i> <i>John Byrd</i>		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	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) <i>Carmon Brooks</i> <i>Tamera Brooke</i>		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								
				Analyst:	pH:	0830	JCB	7.34	7.35									
				Time:	Temp.:			24.0	23.9	°F								
				Reading:	DO:													
				Units:	Debris:													
Cool all samples to 6 degrees C.						Chlorinated? Yes No			This Document is Page 1 of 1									

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: 1610020221	Sample Date : 10/19/16	Collected By: JB
Customer Name : GREENFIELD CAP DEV-BETHEL OAKS	Sample Time : 0830	Delivery By : JB
Customer/Permit No. : 1855 / 4875-WR-1	Sample Type : GRAB BETHEL OAKS	Work Order :
Report Date : 10/26/16	Sample From : 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>
10/20	1015	TSB	Ammonia Nitrogen	36.5 mg/L		SM 1997 4500-NH3 F	0.00	103.0 *
10/24	0900	TSB	Kjeldahl Nitrogen Total	36.96 mg/L		SM 1997 4500-NorgB	1.46	100.9 *
10/24	1600	TSB	Nitrate Nitrogen	8.89 mg/L		SM 2000 4500-NO3 E	3.35	100.4 *
10/20	1050	TSB	Nitrite Nitrogen	1.030 mg/L		SM 2000 4500 NO2 B	3.09	101.0 *
10/19	0830	JCB	pH	7.4 S.U.		SM 2000 4500-H+ B	1.36	N/A
10/20	1300	TSB	Phosphorous, Total (as P)	8.5 mg/L		EPA 365.3	0.00	101.8 *
10/24	1600	RHB	Solids, Total Suspended	76.0 mg/L	(b)	SM 1997 2540 D	0.00	N/A
10/19	1600	JCB	Coliform, Fecal	< 2 /100ml		SM 9222 D 1997	0.00	N/A *
10/19	1400	TSB	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	1.75	92.6 *
10/25	0940	AEU	Solids, % Total by mass	0.042 %		SM 1997 2540 G	9.23	N/A *
10/25	0800	TSB	Nitrogen, Plant Available	46.6 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 _____

Environmental Services Co., Inc.