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

| PERMITTEE NAME | | | PERMIT NO. | | | | |
|---|--------------------------|------------------------------------|--|----------------|-------------------------------|--------------------------|----------|
| Waterford Estates at Hisson Ranch POA | | | 4815-WR-4 | | | | |
| PERMITTEE ADDRES 3567 W New Hope Ro | | | AFIN NO. 72-00974 |] | | | |
| Rogers, AR 72756 | | | | | | | |
| | | WAS | TEWATER EFFLUENT MC | NITORING PERIO | DD . | | |
| | | MM/DD/YYYY | | | MM/DD/YYYY | | |
| | | 4/1/2017 | 4/30/2017 | | • | | |
| TREATED WASTEWATER EFFLUE | NT SAMPLING | y | And the second s | | <u> </u> | | |
| PARAMETER | | Limit | Sample Measurement | UNITS | Monitoring | Reporting | |
| Flow, Monthly total | | REPORT | 1.042795 | MG | Total Flow per calendar month | | |
| Flow, daily maximun | | REPORT | 0.039533 | MGD | Daily | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD5) | | 15 | < 2 | mg/l | | | |
| Total Suspended Solids (TSS) | | 15 | 4.1 | mg/l | | | |
| Fecal Coliform Bacteria (FCB) | | 2,000 | < 4 | colonies/100ml | Grab Sample once per month | | |
| рН | | 6.0 - 9.0 | 7.8 | 5.U. | | Prior to the 15th of the | |
| Total Phosphorus (TP) | | REPORT | 8.2 | mg/l | | following Month | |
| Total Kjeldahl Nitrogen (TKN) | | REPORT | 56 | mg/l | | | |
| Ammonia Nitrogen (NH3-N) | | REPORT | 56 | mg/l | Grab sample once per quarter | | |
| Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) | | REPORT | 5.2 | mg/l | | | |
| Plant Available Nitrogen (PAN) | | REPORT | 61.2 | mg/l | | | |
| Loading Rate | | REPORT | See Attached | gpd/ft 2 | Daily | | |
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | _ | NALTY OF LAW THAT I HAVE PERSONAL | | 11 1.0 | TELEPHONE | DATE | |
| | | AND BASED ON MY INQUIRY OF THOSE | | / | Semell Com | 2_ | 5/9/2017 |
| | OBTAINING THE INF | ORMATION, I BELIEVE THE SUBMITTE | ED INFORMATION IS TRUE, A | ACCURATE, AND | SIGNATURE OF PRINCIPAL | | 3/9/2017 |
| Kathy Bartlett | COMPLETE: 1 AM AW | ARE THAT THERE ARE SIGNIFICANT PEN | 5926 | | | | |
| TYPED OR PRINTED | AUTHORIZED AGENT | | MM/DD/YYYY | | | | |
| COMMENTS AND EXPLANATION C | OF VIOLATIONS <i>(Re</i> | ference all attachments here) | | | | | |
| | | | | | | | |
| | | | | | | | |

| April 2017 WATERFORD ESTATES LOADING RATES 39,533 Gallons | | | | | | | | |
|---|----------|--|--|--|--|--|--|--|
| Zone Identification | GPD/sq 2 | | | | | | | |
| Zone 1A | 3,281 | | | | | | | |
| Zone 1B | 3,123 | | | | | | | |
| Zone 2A | 3,123 | | | | | | | |
| Zone 2B | 2,965 | | | | | | | |
| Zone 3A | 3,123 | | | | | | | |
| Zone 3B | 3,123 | | | | | | | |
| Zone 4A | 3,123 | | | | | | | |
| Zone 4B | 3,123 | | | | | | | |
| Zone 5A | 3,459 | | | | | | | |
| Zone 5B | 3,621 | | | | | | | |
| Zone 6A | 3,459 | | | | | | | |
| Zone 6B | 3,953 | | | | | | | |

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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: 1704020172

Customer Name : GREENFIELD CAP DEV-WATERFORD

Customer/Permit No.: 1886 / 4815-WR-4

Report Date : 04/26/17

Sample Date : 04/19/17

Sample Time: 0905

Sample Type : GRAB WATERFORD

Sample From : DOSE TANK EFFLUENT

Collected By: AEU Delivery By : AEU

Work Order :

Purchase Order :

| | | Quality A | Assurance | | | |
|----------------|---------------------------|-----------------|-----------|--------------------|-----------|-----------------------|
| Analysis | | | | | Precision | Accuracy |
| Date Time By | <u> Parameter</u> | Result Notes | Quantity | Method | % RPD | <pre>% Recovery</pre> |
| 04/20 0845 JCB | Ammonia Nitrogen | 56.0 mg/L | | SM 1997 4500-NH3 F | 9.52 | 96.1 * |
| 04/25 0730 TSB | Total Kjeldahl Nitrogen | 56.00 mg/L | | 02/2014 HACH 10242 | 1.82 | 104.0 * |
| 04/19 0907 AEU | рн | 7.8 S.U. | | SM 2000 4500-H+ B | 1.36 | N/A * |
| 04/24 1325 TSB | Phosphorous, Total (as P) | 8.2 mg/L | | EPA 365.3 | 1.98 | 103.2 * |
| 04/21 1310 JCB | Solids, Total Suspended | 4.1 mg/L | | SM 1997 2540 D | 46.15 | N/A * |
| 04/19 1630 JCB | Coliform, Fecal | < 4 /100ml | | SM 9222 D 1997 | 0.00 | N/A |
| 04/19 1400 TSB | BOD, Carbonaceous | < 2.0 mg/L | | SM 2001 5210 B | 1.48 | 100.7 * |
| 04/20 1030 TSB | Nitrate + Nitrite | $5.2~{ m mg/L}$ | | SM 2000 4500-NO3 E | 0.00 | 99.2 * |
| 04/26 0915 RHB | Nitrogen, Plant Available | 61.2 mg/L | | SM 1997 4500-N | | |
| 04/19 0907 AEU | Sample Collection/Travel | l each | | ŕ | | |

* 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.

Environmental Services Company, Inc. Northwest Arkansas 1107 Century Street Springdale, Arkansas 72762

Fax: 479-750-1172

website: www.esclabs.com

Phone: 479-750-1170



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

> Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

| Client Information | | | | Project Information | | | | | | Requested | | | | Parameters | | | | |
|--|---------------------------|--|---------------------------------------|--|-------------------|--|--|------------------------------------|--|-----------|-----------------------------|--------------|--------------------|---------------------|-------------------|---------------|---|---|
| Company Name: | me: Waterford Estates | | | Permit/Project #: | | | | | | | .99) | | | | | | | |
| Address | ess; 1695 Electric Avenue | | | Purchase | Purchase Order #; | | | | | · | | | TSS(28),PAN(99.99) | | | | 1 | |
| Bertischenbertung unter gereicht gestellt geben der gestellt geste | Springdale AR 727 | 64 | · · · · · · · · · · · · · · · · · · · | | λ . | | | 1 1 1 | | |) | | AN | | | 1 | | |
| Telephone: | (479)751-8868 | | | Sampler Name(s): | | | ber Underwood | | | ľ _, | | 8),F | 25} | _ | | i | | |
| FAX: | (479)757-7650 | | | | | | | | | | | | 3(2 | Pinos(25) | [61 | | | |
| | | | | and Signature(s): | | | - June 1 | | | | (43 | | | N+N | ľ | | | |
| ESC Client Number: | 1886 | | | | | | Commence of the section of the secti | | | | | Coliform(43) | CBOD(70), | NH3(15.A), | FKN(16.A),N+N(91) | | - 1 | |
| Sample Ider | itification | Sample Collection | | | Sample Containers | | | 23) | | ĕ | 3(1) | (16 | | | | | | |
| Identification | ESC Control # | Date | Time | Type | Matrix | Туре | Volume | Preserva | itive | # | pH(23) | П. |) B | 필 | Σ |] | | |
| Dose Tank/Effluent | 1701020172 | 4/19/17 | 0905 | Grab | Water | Teflon | 150 ml | none | | 1 | х | | | | | | | |
| Waterford Estates | | | i | Grab | Water | whirlpak | 300 ml | none/ice | | 1 | | х | | | | | | |
| | | | | Grab | Water | Plastic | 1 qt | none/ice | | 1 | | | х | Sandri a la circa d | | | | |
| | | مسلسر. | | Grab | Water | Plastic | 8 02 | H _z SO ₄ ,pH | <2 | 1 | | | | х | x | | | |
| | | | - | | | | , | | | | | | | | | | | |
| EQ-tonh | 1704030345 | 4/19/17 | 0910 | Grah | (XXXXX) | Masic | l.al- | mml | | ì | | | | | | | | |
| | | | | | | | , , | | | | | | | | | | | |
| trectmentplant | 1704020316 | 4/19/12 | 0474 | Grah | Miller. | Plasht_ | lot | MMO | | 1 | | | | | | | | |
| | | , | | 13-11-3 | | | 77 | | | | | | | | | | | |
| 51902// | 19040803910 | 41917 | 0935 | (-1/2d) | Hydor . | Phatic | lat | 1000 | | 1 | | | | | | | | |
| Relinquished by: (Signature and Printer | (Name), | 1 Date 4/19/17 | 11 2 (inje) | Received By: (Signature and Printed Name) | | 1 | Date | frin | าย | | dy Sei | els: | | والمستحدث | | | | |
| Relinquistrod By: (Signature and Printed Name) | | 2/19/17 Date | Time | Received By: (Signature and Printed Name) Da | | Dale | Tim | 161 | Used? \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | ΔLI | Intact? | | | | | | |
| Relinquishad By: (Signature and Printed Name) Date Time | | Received for hap Ay: (Alignative and Printed Narge | | | Data Time | | | | | | X Special | | | | | | | |
| Relinquished by. (Signature and Printed Reline) Date Time | | Mary 13106 Tanana S | | 70750 | 4-1949 | 1120 | | | Yes | X | s properly preserved: No | | | | I | | | |
| Comments: | | | | FLOW DATA | | Field Test | Time | Analys | | | | | | Units | | | | |
| | | | | | Analyst: Time: | | pH: Temp.: | 0907 | 746 | | 7. | 8 | 7. | | (C) | · | F | |
| | | | | | Reading: | | DO: | | | | -2C(| | | /* \ | <u> </u> | - | <u>, , , , , , , , , , , , , , , , , , , </u> | - |
| | | | | | Units: | The second second | Debris: | | | | | | | | | | | |
| Cool all samples to 6 degrees C, | | | | | | Chlorinated? Yes No This Document is Page [of _ | | | | of | | | | | | | | |