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T.P.U.C. DOCKET ROOM

19-10030

February 28, 2019

Hon. Robin Morrison, Chairman  
c/o Sharla Dillon  
Tennessee Public Utilities Commission  
502 Deaderick Street, 4<sup>th</sup> Floor  
Nashville, TN 37243

RE: Petition to Amend Certificate of Convenience and Necessity

Dear Chairman Morrison,

Enclosed, please find an original and four (4) copies of Tennessee Wastewater Systems, Inc.'s Petition to Amend Its Certificate of Convenience and Necessity to add a location in Robertson County called Chelsea's Way Subdivision. Also enclosed is the filing fee of \$25.

Please let me know if you have any questions or if I can be of further assistance.

Kind regards,



Jeff Ridsen  
CEO

**N THE TENNESSEE PUBLIC UTILITY COMMISSION  
AT NASHVILLE, TENNESSEE**

**IN RE:**

**PETITION OF TENNESSEE  
WASTEWATER SYSTEMS, INC., TO  
AMEND ITS CERTIFICATE OF  
CONVENIENCE AND NECESSITY**

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**DOCKET NO.** 1900030

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**PETITION TO AMEND CERTIFICATE OF CONVENIENCE AND NECESSITY**

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Tennessee Wastewater Systems, Inc. ("TWSI", "Utility", or "Company") petitions the Tennessee Public Utility Commission ("TPUC") to amend its Certificate of Convenience and Necessity to expand its service area to include a residential subdivision in Robertson County known as Chelsea's Way. TWSI has provided wastewater service in Robertson County since it was granted a CCN for the City of Coopertown in 2000. Since that time, TWSI, has over the years, been granted several additional CCN's to provide service to other areas of the county such as Sunnybrook, Cedar Hill, Cross Plains, and Cedar Hill Baptist Church.

As demonstrated in the application and attached exhibits, there is a public need for service and TWSI has the requisite management experience, financial capability, and technical expertise to provide such service pursuant to the rules and regulations of the Commission. In support of its Petition, TWSI states as follows:

**General Information:**

1. The applicant is Tennessee Wastewater Systems, Inc. which is located at 851 Aviation Parkway, Smyrna, TN 37167.
2. **Organizational Chart** – See Exhibit 2
3. Tennessee Wastewater Systems, Inc. is wholly owned by Adenus Group, LLC. The members of Adenus Group, LLC are Thomas Pickney, William Pickney, and Robert, Pickney. 849 Aviation Parkway, Smyrna, TN 37167. Each owns 33.3% of Adenus Group, LLC.
4. **Corporate Organizational Chart with Affiliates** – See Exhibit 4 – It is not known at this time what transactions will occur between affiliated companies and this project outside of Adenus Technologies providing panels and telemetry monitoring to the system.
5. **Articles of Incorporation** – See Exhibit 5
6. **Tennessee Business License** – See Exhibit 6
7. **Description of Geographic Territory** – The Chelsea Way Subdivision is located off Calista Road, west of I-65, and southeast of Cross Plains in Robertson County. It is comprised of 167.96 acres. The wastewater facility will be known as Calista Road TF. See Exhibits 7A-7D for maps detailing the development location and the lots to be served and the wastewater facilities.
8. **Description of the Proposed Wastewater System** – The proposed system is comprised of a watertight effluent pressure collection system, utilizing STEP/STEG tanks and a recirculating media filter treatment system to handle design flows from 117 residential lots for a total capacity of 35,100 gpd.
9. **Estimated Dates for commencement and completion of construction** – Presently there are no estimated dates for construction. This project is at the very beginning stages of planning and the timing of construction will depend largely upon how quickly this project can get through the County and obtain all its approvals and permits.
10. **Phases/Houses per Phase** – The development is planned for 117 residential lots.

11. **Builder/Developer Identity** – See Request to Serve Letter Exhibit 11 – Benny Neill, PO Box 786, Savannah, TN 38372.

**Existence of Public Need and Property Rights**

12. **Letters from local governments and utilities** – See Exhibit 12
13. **Franchise Agreement** – n/a
14. **Contracts and Agreements** – See Exhibit 14

**Managerial Ability:**

15. **Biographies of officers and key wastewater utility staff w/ list of certifications or professional licenses** – See Exhibit 15
16. TWSI is certified wastewater provider in the State of Tennessee. It's parent company Adenus Group, LLC owns certified wastewater providers in Alabama, Ohio, and Kentucky.
17. **Merger/Acquisition** – n/a
18. **Treatment System Contractor** – At the time of filing, a company has not been identified or contracted with to build the system. The contractor will be hired by the developer to construct the system to State and TWSI specifications.

**Technical Ability:**

19. **SOP Application/Permit** – See Exhibit 19
20. **State Operator Certificate** – See Exhibit 20
21. **TWSI Contact Person:**

Matthew Nicks  
Tennessee Wastewater Systems, Inc.  
615-220-7200

22. **Engineering Certification** –The system has not been constructed at this time. The certification will be filed in this docket once the system is accepted by TWSI.


## **Financial Capability:**

23. **Financial Statements** – See Exhibit 23
24. **Pro Forma** (Three years of operations) – TWSI is starting a staff assisted rate review. As a result, any pro forma put forth will not be an accurate representation of the company's financial position in the coming years. With over 3000 customers, the addition of 117 customers over a five (5) year period will have minimal impact to the Company's overall finances (as shown in Exhibits 23 and 31).
25. **NARUC Chart of Accounts** – See Exhibit 25
26. **Plant in service account numbers** – See Exhibit 26
27. **Depreciation rates/schedule** – Depreciation is straight line with the following schedule:
  - Building – 15 years
  - Fence – 7 years
  - Panel – 7 years
  - Tank – 10 years
  - Treatment – 26 years
28. **Estimated Cost of Construction** – See Exhibit 28. This is a rough estimate of what the cost may be to build this system. TWSI is not involved in the bidding of the project or the selection of the contractor to build the system.
29. TWSI will own the system once it is completed, inspected, and accepted by the Utility. Estimated amount of contributed capital is as identified in Exhibit 28 above (the treatment plant), plus cost of collection system and cost of the land conveyed to the Utility. Neither of these costs are known at this time but will be filed in this Docket along with the actual cost of the treatment system when provided by the Developer no later than at the time the final plat is signed by the Utility. Contributed Capital is recorded when the system is commissioned (accepted) by debiting the appropriate utility plant in service asset account and crediting the CIAC account.

30. **Tariff** – On file with the Commission. See Exhibit 30 for addition to Chelsea's Way to the residential tariff sheet.
31. **Five Year Build Out Estimate of Development** – See Exhibit 31
32. **Municipal Bonding Requirements** – There are no municipal bonding requirements for the wastewater system.
33. **Performance Bond** – Performance bond will be provided in this docket prior to commencement of construction for this project.
34. **Funding Sources** - The developer is responsible for funding the construction of the wastewater system.
35. **Financial Security** – On file with the Commission.

THEREFORE, having shown that a public need exists and that TWSI possesses the requisite managerial, technical, and financial capabilities to provide service to the Che Subdivision, TWSI respectfully requests the Commission's approval of this Petition.

RESPECTFULLY SUBMITTED,



\_\_\_\_\_  
Jeff Riden (BPR No. 32769)  
General Counsel  
Tennessee Wastewater Systems, Inc.  
851 Aviation Parkway  
Smyrna, TN 37167  
(615) 220-7171  
[jeff.riden@adenus.com](mailto:jeff.riden@adenus.com)

**Tennessee Wastewater Systems, Inc.**

**Organizational Chart**

**Jeff Ridsen, CEO**

**Matthew Nicks, President**

**Thomas Pickney, Secretary**

**William Pickney, Treasurer**

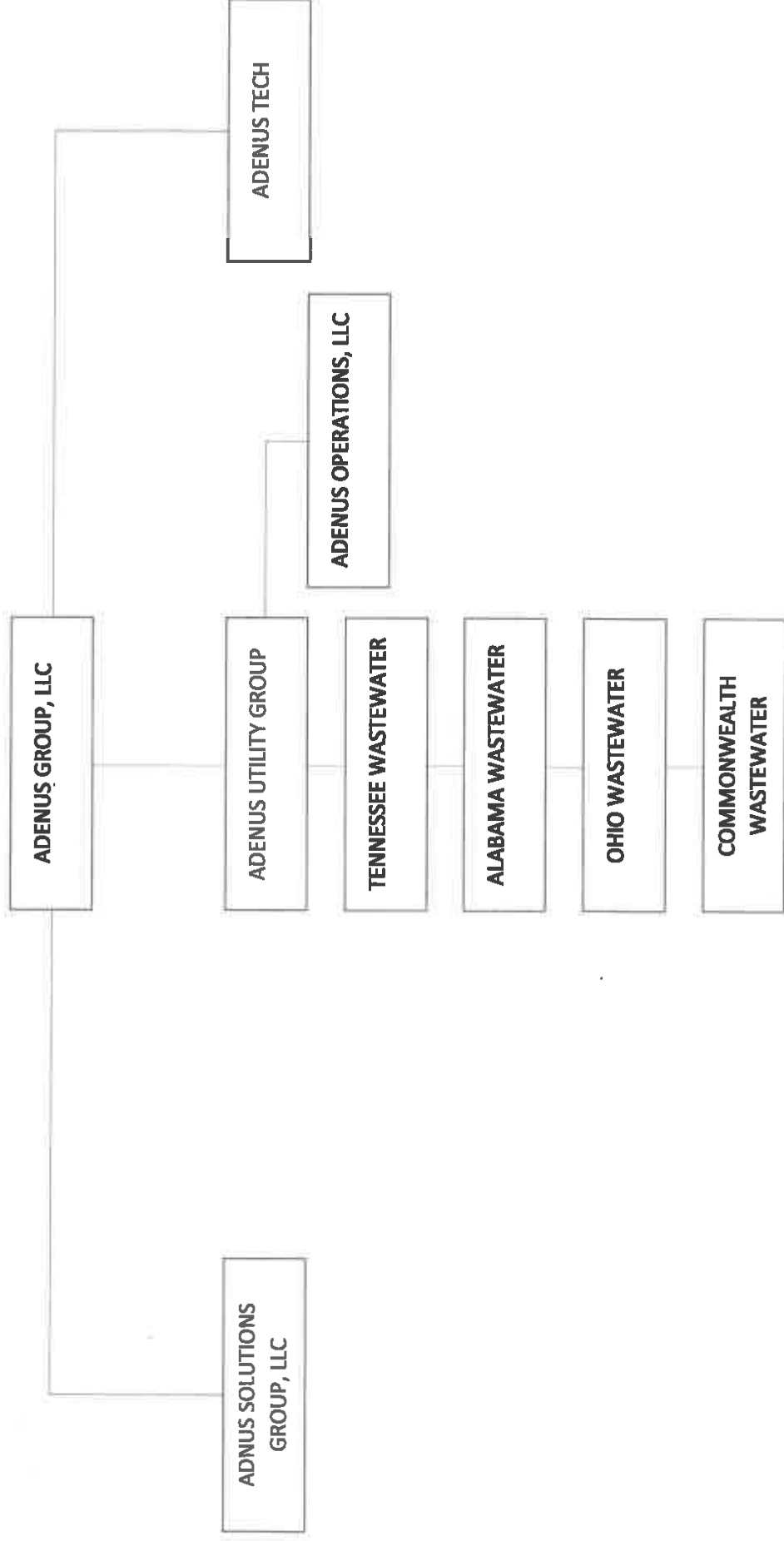
**Marshall Fall, CTO**

**Suzanne Christman, Controller**

**Billy Dranes, Operations Manager, Middle TN**

**John Norton, Operations Manager, East TN**

**ADENUS GROUP, LLC**  
**ORGANIZATIONAL CHART**





ex. 5

State of Tennessee



Department of State  
Corporate Filings  
312 Eighth Avenue North  
6th Floor, William R. Snodgrass Tower  
Nashville, TN 37243

ARTICLES OF AMENDMENT  
TO THE CHARTER  
(For-Profit)

FILED  
2003 JUL -7 PM 2:34  
RILEY DARNELL  
SECRETARY OF STATE

CORPORATE CONTROL NUMBER (IF KNOWN) 0263854

PURSUANT TO THE PROVISIONS OF SECTION 48-20-106 OF THE TENNESSEE BUSINESS CORPORATION ACT, THE UNDERSIGNED CORPORATION ADOPTS THE FOLLOWING ARTICLES OF AMENDMENT TO ITS CHARTER:

1. PLEASE INSERT THE NAME OF THE CORPORATION AS IT APPEARS OF RECORD:

ON-SITE SYSTEMS, INC.

IF CHANGING THE NAME, INSERT THE NEW NAME ON THE LINE BELOW:

TENNESSEE Wastewater Systems, Inc.

2. PLEASE MARK THE BLOCK THAT APPLIES:

- ☒ AMENDMENT IS TO BE EFFECTIVE WHEN FILED BY THE SECRETARY OF STATE.  
☐ AMENDMENT IS TO BE EFFECTIVE, \_\_\_\_\_ (MONTH, DAY, YEAR)

(NOT TO BE LATER THAN THE 90TH DAY AFTER THE DATE THIS DOCUMENT IS FILED.) IF NEITHER BLOCK IS CHECKED, THE AMENDMENT WILL BE EFFECTIVE AT THE TIME OF FILING.

3. PLEASE INSERT ANY CHANGES THAT APPLY:

A. PRINCIPAL ADDRESS:

STREET ADDRESS

CITY

STATE/COUNTY

ZIP CODE

B. REGISTERED AGENT:

C. REGISTERED ADDRESS:

STREET ADDRESS

CITY

TN  
STATE

ZIP CODE

COUNTY

D. OTHER CHANGES:

4. THE CORPORATION IS FOR PROFIT.

5. THE MANNER (IF NOT SET FORTH IN THE AMENDMENT) FOR IMPLEMENTATION OF ANY EXCHANGE, RECLASSIFICATION, OR CANCELLATION OF ISSUED SHARES IS AS FOLLOWS:

6. THE AMENDMENT WAS DULY ADOPTED ON June 30, 2003 (MONTH, DAY, YEAR)  
BY (Please mark the block that applies):

- ☐ THE INCORPORATORS WITHOUT SHAREHOLDER ACTION, AS SUCH WAS NOT REQUIRED.  
☒ THE BOARD OF DIRECTORS WITHOUT SHAREHOLDER APPROVAL, AS SUCH WAS NOT REQUIRED.  
☐ THE SHAREHOLDERS.

PRESIDENT  
SIGNER'S CAPACITY

Charles L. Pickney, Jr.  
SIGNATURE

DATE

Charles L. Pickney, Jr.  
NAME OF SIGNER (TYPED OR PRINTED)



**Tre Hargett**  
Secretary of State

**Division of Business Services**  
**Department of State**  
**State of Tennessee**  
312 Rosa L. Parks AVE, 6th FL  
Nashville, TN 37243-1102

JEFF RISDEN  
JEFF RISDEN  
849 AVIATION PARKWAY  
SMYRNA, TN 37167

February 20, 2019

Request Type: Certificate of Existence/Authorization  
Request #: 0306463

Issuance Date: 02/20/2019  
Copies Requested: 1

**Document Receipt**

Receipt #: 004556561

Filing Fee: \$20.00

Payment-Credit Card - State Payment Center - CC #: 3750641123

\$20.00

Regarding: TENNESSEE WASTEWATER SYSTEMS, INC.

Filing Type: For-profit Corporation - Domestic

Control #: 263854

Formation/Qualification Date: 03/16/1993

Date Formed: 03/16/1993

Status: Active

Formation Locale: TENNESSEE

Duration Term: Perpetual

Inactive Date:

Business County: RUTHERFORD COUNTY

**CERTIFICATE OF EXISTENCE**

I, Tre Hargett, Secretary of State of the State of Tennessee, do hereby certify that effective as of the issuance date noted above

**TENNESSEE WASTEWATER SYSTEMS, INC.**

\* is a Corporation duly incorporated under the law of this State with a date of incorporation and duration as given above;

\* has paid all fees, interest, taxes and penalties owed to this State (as reflected in the records of the Secretary of State and the Department of Revenue) which affect the existence/authorization of the business;

\* has filed the most recent annual report required with this office;

\* has appointed a registered agent and registered office in this State;

\* has not filed Articles of Dissolution or Articles of Termination. A decree of judicial dissolution has not been filed.

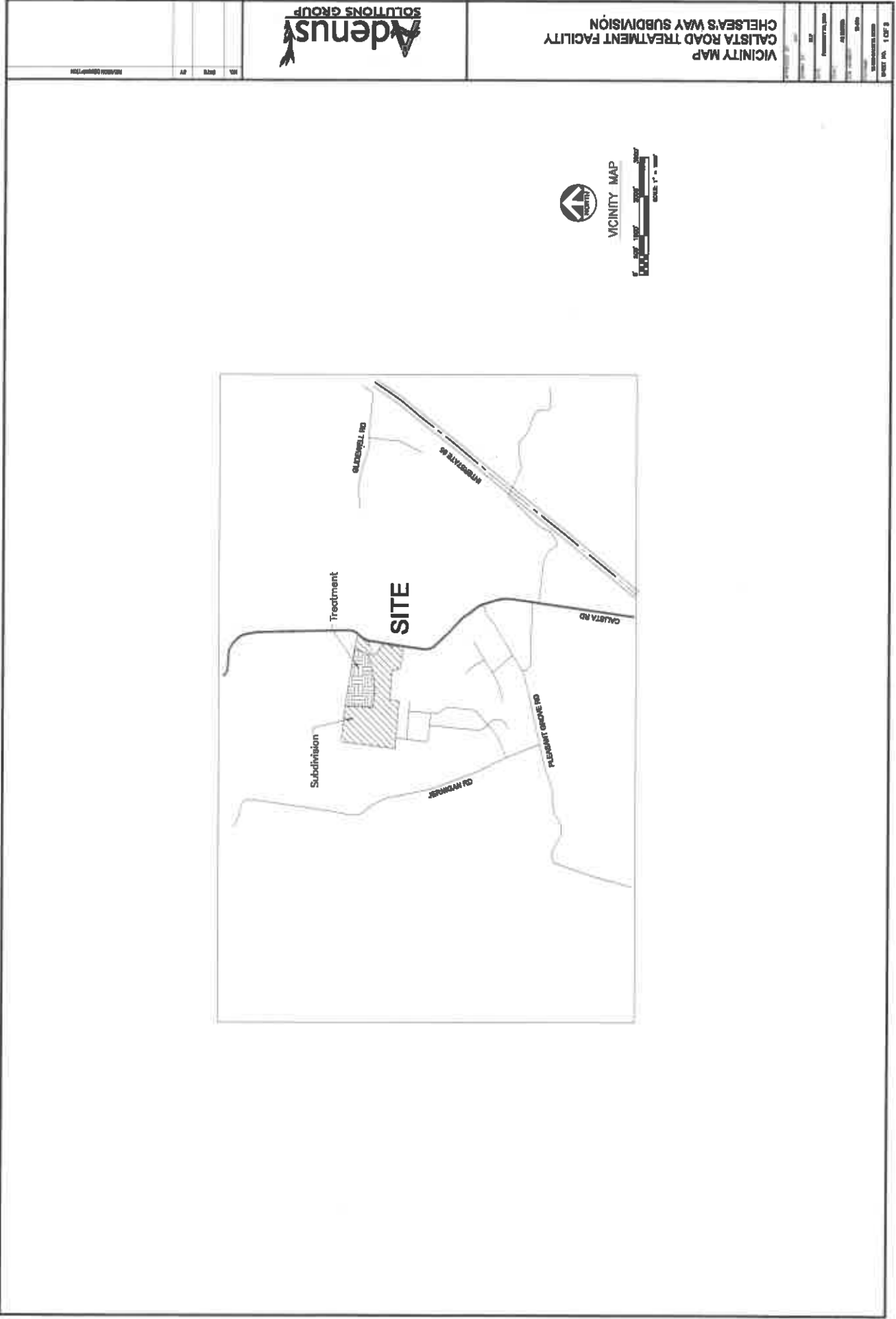
Tre Hargett  
Secretary of State

Processed By: Cert Web User

Verification #: 031955628



EX. 7B

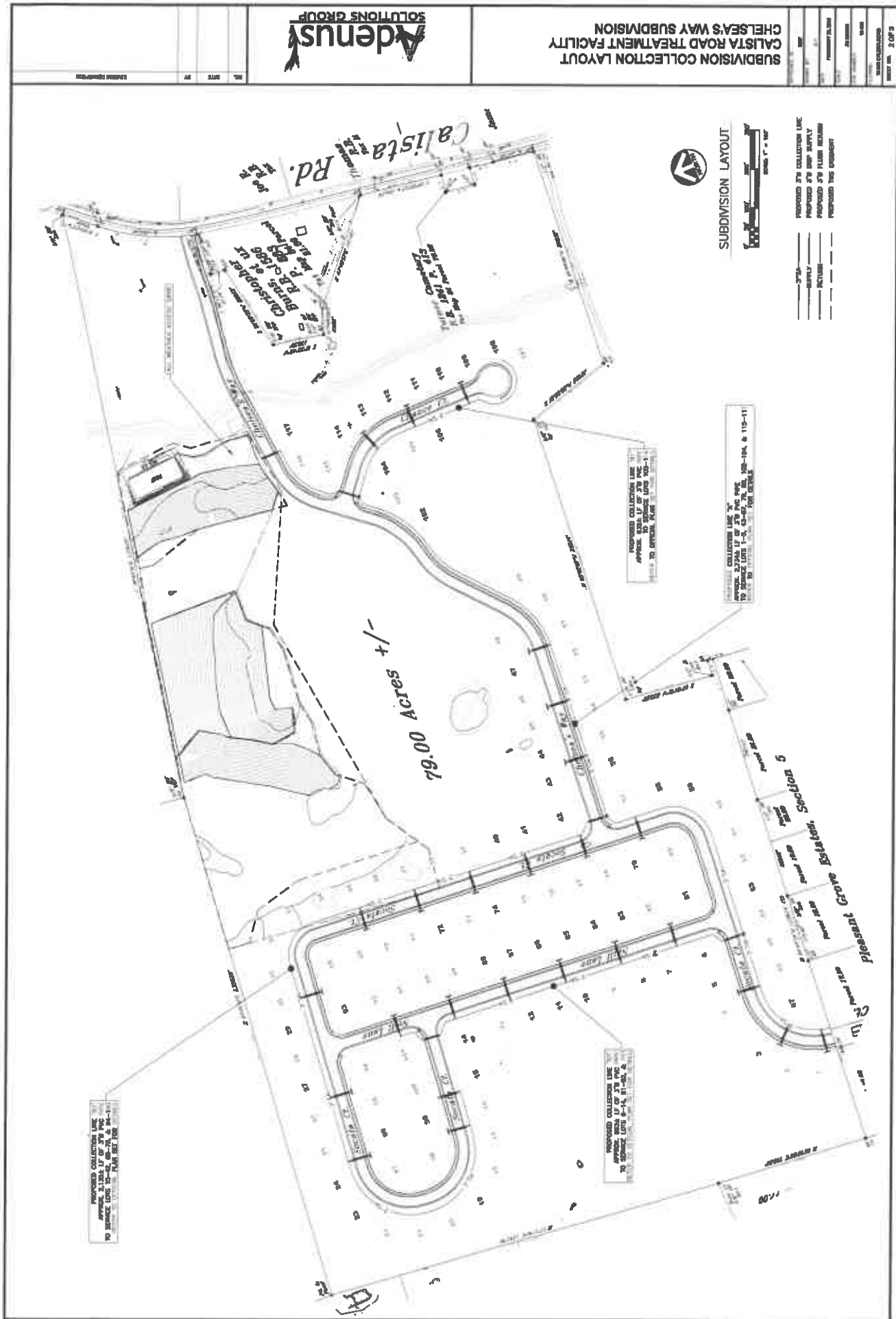


VICINITY MAP  
CALISTA ROAD TREATMENT FACILITY  
CHELSEA'S WAY SUBDIVISION

Adenust  
SOLUTIONS GROUP

DATE: 07/15/2015  
BY: [signature]  
CHECKED: [signature]  
APPROVED: [signature]

EX. 7C



Adenust SOLUTIONS GROUP

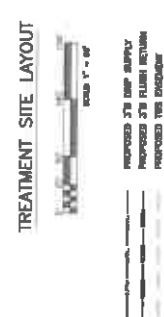
SUBDIVISION COLLECTION LAYOUT  
CALISTA ROAD TREATMENT FACILITY  
CHELSEA'S WAY SUBDIVISION

SUBDIVISION LAYOUT



- PROPOSED 275' COLLECTION LINE
- PROPOSED 275' IMP. DRAIN
- PROPOSED 275' PLEIN DRAIN
- PROPOSED 275' PLEIN DRAIN

DATE: 08/11/2011  
DRAWN: J. B. BROWN  
CHECKED: J. B. BROWN  
PROJECT: CHELSEA'S WAY SUBDIVISION  
SHEET NO. 2 OF 2



EX. 7D

EX. 11

**Benny Neill**

**POB 786**

**Savannah, TN 38372**

**Bennyneill77@yahoo.com**

**October 22, 2018**

**Re: Callsta Road Subdivision**

**Whitehouse, TN**

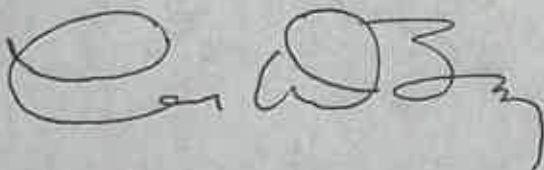
**Dear Matthew,**

**Enclosed please find our letter from Robertson county stating that they are not able to furnish us with sewer services to the property. I have also sent you a copy of White House utilities letter stating the same.**

**At this time we are requesting that your company service our 117 lot subdivision with sewer services.**

**Please let me know if you require anything else from us.**

**Sincerely,**

A handwritten signature in black ink, appearing to read 'Lane DeBerry', with a stylized flourish at the end.

**Lane DeBerry**

EX. 12



**William A. Vogle**  
**COUNTY MAYOR**  
Robertson County Government

October 19, 2018

Mr. Van Oldham, PE  
GreenLID Design, LLC  
114 B West Main Street  
Gallatin, TN 37066

RE: Calista Road Parcel Map 84, Parcel 79

Dear Mr. Oldham,

I have reviewed your request. Robertson County does not provide any utilities to county residents.

If you need anything further, please don't hesitate to contact me.

Sincerely,

William A. Vogle  
Robertson County Mayor





## City of White House

### Public Services Department

725 Industrial Drive • White House, TN 37188

[www.cityofwhitehouse.com/wastewater](http://www.cityofwhitehouse.com/wastewater)

Phone (615) 672-3654 • Fax (615) 672-3655

May 5, 2018

Mr. Bryan Price  
Bryan Price Engineering  
865 Coker Ford Road  
Portland, TN 37148

RE: Calista Road Parcel Map 84, Parcel 79

Dear Mr. Price,

I have reviewed your request and this parcel lies outside the City's Service area. The City only provides sewer service to City residents. If you have any questions or require further explanation, please contact me or Mr. W. Joe Moss at our Public Services Office.

Sincerely,

Cynthia Wheeler  
Assistant Director of Public Services

The City of White House is working towards the daily pursuit of excellence in management and delivery of services, while Balancing the preservation of our small town atmosphere by nurturing orderly, proactive growth.

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## Letter of Understanding

This Letter of Understanding ("LOU") outlines the fundamental terms of agreement and intentions between Adenus Solutions Group, LLC ("ASG"), and Benny Neill / Creasy Construction / Chelsea's Way ("Developer").

Questions and comments should be directed to Matthew Nicks at (615) 220-7166 or [matthew.nicks@adenus.com](mailto:matthew.nicks@adenus.com)

Effective Date: September 17, 2018

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The fundamental terms of agreement and intention between ASG and Developer are as follows:

1. Developer desires to develop a residential subdivision in Robertson County, Tennessee on approximately 79.00 +/- acres of property, located on Calista Road (being Tax Map 84, Parcel 79 in Robertson County, the "Property"). This Property is proposing to accommodate approximately +/- 117 single-family residential lots (Equivalent Dwelling Units, or EDUs). This lot count will be used for this Letter of Understanding.
2. ASG is a wastewater system engineering, design, and construction company.
3. ASG will provide wastewater treatment system design.
4. Regarding the design of the wastewater system, ASG agrees to:
  - Design the wastewater treatment system to accommodate the residential subdivision site plan and the project site disposal system (collectively, the wastewater system) to the specifications of Tennessee Wastewater Systems, Inc. ("TWS");
  - Prepare the wastewater system plans and submit the plans to the Tennessee Department of Environment and Conservation and the Robertson County Planning Department ("RCPD") for review and approval.
6. ASG will submit or cause to be submitted all plans and reports to regulatory agencies (County or State), after review and approval from TWS, which approval shall be in writing.
7. Developer understands that the construction or expansion of the treatment system will require encroachment upon land areas already identified as reserve soils to meet County requirements. Developer agrees it will provide all necessary and required soils under this paragraph.

**Chelsea's Way  
Letter of Understanding  
117 Lot Development, Robertson County  
September 17, 2018**

- 8. Developer agrees to provide the following for engineering and construction of the treatment, disposal, and sewer collection system:**
- **2,250 SF of good soil - soil must provide 0.2 gpd/SF disposal capacity to meet this requirement - per home (EDU's) proposed for disposal/recycling. (Approximately 263,250 SF, plus buffers). These soils will be transferred to TWS by warranty deed at the platting of the proposed development.**
  - **Topography map (digital AutoCAD .dwg file) of the entire proposed property @ a 2' contour interval.**
  - **Provide to TWS and ASG overall site plan of the proposed project, with proposed stormwater drainage plans, to include grading plans (digital AutoCAD .dwg file)**
  - **Lay/install residential collection lines on the property per requirements of TWS and ASG approved plans and specifications, to include any required pump stations and residential service taps, and any force mains required to connect any pump station to the collection main lines returning to the treatment facility.**
  - **Single phase, 100 amps, underground electrical service to any required pump stations on the property.**
  - **Maintain the area of soil map grid staking until either construction of the disposal system has begun, or the area/s are deeded to TWS, whichever occurs first. This shall include mowing/vegetation control and maintaining the grid staking.**
  - **Dedicate easements as dictated by the final design plans for access to the collection, treatment and reuse/disposal system, and for the residential services.**
  - **Fencing of the constructed treatment facility components and drip field areas with required fence;**
- 9. TWS may require the installation of additional piping infrastructure through the development to accommodate future development and/or expansion of the collection, treatment, or disposal system. Developer agrees to provide TWS any easements necessary for the extension of this infrastructure. TWS has the right to extend the**

**Chelsea's Way  
Letter of Understanding  
117 Lot Development, Robertson County  
September 17, 2018**

pipng infrastructure at any time and in its sole discretion. TWS will be responsible for any costs associated with extending the piping infrastructure.

10. Developer or its assignee will pay to ASG a design/build fee of \$5,500.00 per lot (\$643,500.00). A separate review and inspection fee and tax remittance will be required by TWS and detailed in Developer's agreement with TWS.
11. The \$ 5,500.00 per lot design/build fee includes:
  - Construction of treatment and disposal capacity for the project, to include the treatment facility, the drip field disposal, providing the stub-out of the distribution and reuse lines as described above;
  - Any other professional report fees/costs necessary to Developer for preparation and performance of the work as submitted to and approved by TWS and ASG.

\*No home will be released to connect to the sewer collection system, or to the treatment and disposal system, until the Developer has paid all sewer development fees less applicable credits.

12. Payment of the design/build fee to ASG will be made:
  - \* 25% (\$160,875.00) within 10 days of executing the design build agreement,
  - \* 50% (\$321,750.00) upon completion of the work as specified in the design build agreement, and
  - \* 25% (\$160,875.00) at time system is approved and accepted by TWS.
13. ASG will ensure the construction and installation of the treatment and disposal system meets or exceeds TWS' requirements so that TWS will assume ownership of the treatment, disposal, and collection system once inspections are approved and accepted by TWS.
14. Developer agrees and understands this Agreement is solely for the purposes of designing, constructing, and installing the wastewater treatment and disposal system. ASG has no responsibilities beyond those that are covered in this LOU and the design build agreement. TWS will not place the wastewater treatment system into operation until certain requirements and obligations have been met and all easements and deeds


**Chelsea's Way  
Letter of Understanding  
117 Lot Development, Robertson County  
September 17, 2018**

have been transferred to TWS in accordance with Developer's agreement with the utility.

15. Developer agrees to post any bond amounts required by the RCPD for the collection system on the property, prior to final plat being signed by TWS.
16. Cost of tankage, components, etc. for each individual residence site and installation of sewer collection/reuse main lines, pump stations, and lot services are outside the scope of this agreement.
17. Developer understands and agrees that changes made to federal and state law, TDEC regulations, or to Tennessee Public Utility Commission rules, or to Robertson County regulations after the date of this understanding are beyond the control of ASG and TWS and could likely cause a change to the proposed costs. If no changes occur to the current laws and regulations, the costs and fees presented in this understanding shall be valid for a period of not more than one (1) year from the effective date stated at the beginning of this LOU, regardless of the date the parties sign. Any contracts, or agreements, between the parties that are not signed within this one-year time limit will be revised to reflect costs in effect at that time.
18. In the event the property fails to be developed, either Party may terminate this agreement upon written notice to the other. In the event the property fails to be developed and the agreement is terminated, Developer agrees to reimburse ASG for all out-of-pocket costs related to all services that have been performed in the effort to provide wastewater services to the proposed development including, but not limited to, reimbursement for construction costs, and all legal fees incurred in the pursuit of obtaining regulatory approval to provide wastewater services to the development.

Developer acknowledges and accepts the aforementioned terms of agreement and intention.

**Chelsea's Way  
Developer - Benny Neill, Creasy Construction**

  
Title: owner  
Date: 9-25-18

Chelsea's Way  
Letter of Understanding  
117 Lot Development, Robertson County  
September 17, 2018

Adenus Solutions Group, LLC  
Charles Hyatt

A handwritten signature in dark ink, appearing to read "C. Hyatt", is written over a horizontal line.

Title: President

Date: 9.25.18

**Tennessee Wastewater System, Inc.,  
Officer and Key Employee Biographies**

Tennessee Wastewater Systems, Inc. ("TWSI") is a leader in decentralized wastewater systems and technology in the Southeastern United States. TWSI has been a regulated provider of wastewater services in Tennessee since receiving its initial CCN from the Tennessee Public Service Commission, the predecessor to the current Tennessee Public Utility Commission, in 1994; currently holding over 100 certificates for territories in Middle and East Tennessee and providing service to over 3000 customers across the State.

**Jeff Ridsen, CEO** – Mr. Ridsen joined Adenus in 2015 as General Counsel before rising to CEO in late 2018. Prior to Adenus Mr. Ridsen was in private legal practice and spent over twenty years in the music business as a booking agent and artist manager, representing and guiding the careers of gold and platinum selling, and Grammy nominated musical artists, songwriters, and producers. He received his undergraduate degree from Geneva College in Beaver Falls, PA, and his JD from the Nashville School of Law.

**Matthew Nicks – President** – Mr. Nicks is the President of Tennessee Wastewater Systems, Inc. Mr. Nicks comes from an environmental remediation background. Mr. Nicks has worked all over the world handling and overseeing the collection, treatment, storage, transportation, and shipping of hazardous waste in a variety of industry settings. Matthew has a strong background in regulatory compliance matters including those related to OSHA, NIOSH, ANSI, NFPA, and the EPA. Mr. Nicks is also a residential developer who has developed properties in Davidson County. Mr. Nicks is a Tennessee licensed contractor.

**Tom Pickney – Secretary**

**Bill Pickney – Treasurer**

Tom and Bill Pickney entered the wastewater business in the mid 1980's by constructing low pressure pipe systems for homes, primarily in Williamson County. They were shortly joined by their brother Bob who through his engineering background added system design to their offerings. Soon Pickney Brothers, Inc. was formed and over the coming years helped bring the decentralized wastewater concept to Tennessee. Tom and Bill, along with their brothers Bob and Charles formed On-Site Systems, Inc. in early 1990's. The company was granted its first CCN in 1994. On-Site's name was changed in 2007 to Tennessee Wastewater Systems, Inc. Tom and Bill have extensive, decades long, experience and knowledge of the design, construction, and operations of decentralized wastewater systems.

**Marshall Fall – CTO** – Mr. Fall is the Chief Technical Officer for Adenus and Tennessee Wastewater System, Inc.'s wastewater engineer. Mr. Fall got his start in the wastewater business with Adenus where he worked on construction crews building and repairing treatment facilities. He went back to school and received his engineering degree and went to work for SSR, as national engineering firm, upon graduating. Mr. Fall obtained his Professional Engineer's license and returned to Adenus to oversee all engineering and construction activities for the company and utilities.

**Billy Dranes, Operations Mgr – Middle TN** – Mr. Dranes is responsible for overseeing Tennessee Wastewater System, Inc.'s operations and maintenance program for their facilities in Middle Tennessee. Mr. Dranes comes to TWSI with over 35 years municipal wastewater management and consulting, industrial wastewater treatment and pretreatment, laboratory & field services, client & project management, regulatory compliance, wastewater operations & maintenance, technical consulting, and

business development in the public and private sectors. Most recently he was the treatment plant manager for the wastewater plant for the City of Lebanon, TN.

**John Norton, Operations Mgr – East TN** – Mr. Norton is responsible for overseeing Tennessee Wastewater System, Inc's operations and maintenance program for its facilities in East Tennessee. Mr. Norton, after serving in the United States Air Force, has spent the bulk of his career in various operations management roles overseeing personnel management, hiring, DOT and OSHA compliance.





Tennessee Department of Environment and Conservation  
 Division of Water Pollution Control  
 William R. Snodgrass Tennessee Tower  
 312 Rosa L. Parks Avenue, 11th Floor  
 Nashville, Tennessee 37243  
 (615) 532-0625

### APPLICATION FOR A STATE OPERATION PERMIT (SOP)

Type of application:      New Permit      0 Permit Reissuance      D Permit Modification

**Permittee Identification:** (Name of city, town, industry, corporation, individual, etc., applying, according to the provisions of Tennessee Code Annotated Section 69-3-108 and Regulations of the Tennessee Water Quality Control Board.)

Permittee

Name      **Tennessee Wastewater Systems, Inc.**  
 (applicant):

Permittee  
 Address:      **849 Aviation Parkway Smyrna, TN 37167**

Official Contact:

**Jeff Riden**

Title or Position:

**Vice President**

Mailing Address:

**849 Aviation Parkway**

City:

**Smyrna**

State:

**TN**

Zip:

**37167**

Phone number(s):

**615-220-7200**

E-man:

Optional Contact:

**Brian Carter**

Title or Position:

**Operator**

Address:

**849 Aviation Parkway**

City:

**Smyrna**

State:

**TN**

Zip:

**37167**

Phone number(s):

**615-220-7200**

E-mail:

### Application Certification (must be signed in accordance with the requirements of Rule 1200-4-5-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title; print or type

**Jeff Riden, Vice President**

Signature      - - - r

Date

1-7-18 / <, Jr

TN DEPT. OF ENV. & CONSERVATION

DEC 10 2018

<b>Facility Identification:</b>		<b>Existing Permit No.</b>	
Facility Name:	Calista Road Treatment Facility	County:	Robertson
Facility Address or Location:	Calista Road, Robertson County, TN	Latitude:	36.52056
		Longitude:	-86.67361
Name and distance to nearest receiving waters: Red River - 2,000± LF			
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list their permit numbers: N/A			
Name of company or governmental entity that will operate the permitted system: Tennessee Wastewater Systems, Inc.			
Operator address: 849 Aviation Parkway, Smyrna, TN 37167			
Has the owner/operator filed for a Certificate of Convenience & Necessity (CCN), or an amended CCN, with the Tennessee Regulatory Authority (TRA) (may be required for collection systems and land application treatment systems)? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If the applicant listed above does not yet own the facility/site or if the applicant will not be the operator, explain how and when the ownership will be transferred or describe the contractual arrangement and renewal terms of the contract for operations.			
<b>Complete the following information explaining the entity type, number of design units, and daily design wastewater flow:</b>			
Entity Type	Number of Design Units		Flow (gpg)
<input checked="" type="checkbox"/> City, town or county	No. of connections:		
<input checked="" type="checkbox"/> Subdivision	No. of homes:	Avg. No. bedrooms per home: 3	35,100
<input checked="" type="checkbox"/> School	No. of students:	Size of cafeteria(s): No. of showers: 0	
<input checked="" type="checkbox"/> Apartment	No. of units:	No. units with Washer/Dryer hookups:  No. units without W/D hookups:	
<input checked="" type="checkbox"/> Commercial Business	No. of employees:	Type of business:	
<input checked="" type="checkbox"/> Industry	No. of employees:	Product(s) manufactured:	
<input checked="" type="checkbox"/> Resort	No. of units:		
<input type="checkbox"/> Cam	No. of hookups:		
<input type="checkbox"/> RV Park	No. of hookups:	No. of dump stations:	
<input checked="" type="checkbox"/> Car Wash	No. of bays:		
<input checked="" type="checkbox"/> Other			
Describe the type and frequency of activities that result in wastewater generation. Residential Subdivision			
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app-1-n-2011			

<b>Engineering Report (required for collection systems and/or land application treatment systems):</b>	<input type="checkbox"/> <b>N/A</b>
<input type="checkbox"/> Prepared in accordance with Rule 1200-4-2-.03 and Section 1.2 of the Tennessee Design Criteria (see <u>website</u> for more information)	
<input type="checkbox"/> Attached, or	
<input type="checkbox"/> Previously submitted and entitled: <u>Preliminary Eng. Rpt.</u> Approved? <input type="checkbox"/> Yes. Date: <input checked="" type="checkbox"/> No	

<b>Wastewater Collection System:</b>	ION/A
System type (i.e., gravity, low pressure, vacuum, combination, etc.): STEP/STEG small diameter sewer system	
System Description: STEP/STEG small diameter sewer system	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): <u>Tanks and sewers are watertight. There are no bypass points in the system. TWSI also has emergency generators to run the pumps.</u>	
In the event of a system failure describe means of operator notification: <u>Cellular telemetry notification</u>	
List the emergency contact(s) (name/phone): <u>Brian Carter- 615-220-7200</u>	
For low-pressure systems, who is responsible for maintenance of STEP/STEG tanks and pumps or grinder pumps (list all contact information)? <u>There are no grinder pumps. All notifications come to TWSI at 615-220-7200</u>	
Approximate length of sewer (excluding private service lateral): <u>As Needed</u>	
Number/hp of lift stations: <u>0 /0</u>	Number/hp of lift pumps <u>0/0</u>
Number/volume of low pressure and or grinder pump tanks <u>0/0</u>	Number/volume septic tanks <u>117 / 1,500</u>
Attach a schematic of the collection system. <u>Attached</u>	
If this is a satellite sewer and you are tying in to another sewer system complete the following section, listing tie-in points to the sewer system and their location (attach additional sheets as necessary):	
Tie-in Point	Latitude (xx.xxxx <sup>o</sup> )
<u>N/A</u>	<u>Lon2:itude (xx.xxxx<sup>o</sup>)</u>

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<b>Land Application Treatment System:</b>		ION/A
Type of Land Application Treatment System: <input checked="" type="checkbox"/> Drip <input checked="" type="checkbox"/> Spray <input type="checkbox"/> Other explain:		
Type of treatment facility preceding land application (recirculating media filters, lagoons, other, etc.): Recirculating Media Filter		
Attach a treatment schematic. <input checked="" type="checkbox"/> Attached		
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Same as above		
For New or Modified Projects:		
Name of Developer for the project: Existing permit		
Developer address and phone number: Existing permit		
For land application, list:	Proposed acreage involved: 4.0 +/- acres	
	Inches/week load/sq.ft loading rate to be applied: 2 inches/week	
Is wastewater disinfection proposed?		
<input type="radio"/> Yes Describe land application area access:		
<input checked="" type="radio"/> No Describe how access to the land application area will be restricted: Fence		
<b>Attach required additional Engineering Report Information (see website for more information)</b>		
<input checked="" type="checkbox"/> Topographic map (1:24,000 scale presented at a six inch by six inch minimum size) showing the location of the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in decimal degrees should also be included.		
<input checked="" type="checkbox"/> Scaled layout of facility showing the following: lots, buildings, etc. being served, the wastewater collection system routes, the pretreatment system location, the proposed land application area(s), roads, property boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection areas, sinkholes and wetlands.		
Soils information for the proposed land disposal area in the form of a Water Pollution Control (WPC) Soils Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils information should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile description for each soil mapped.		
Topographic map of the area where the wastewater is to be land applied with no greater than ten foot contours presented at a minimum size of 24 inches by 24 inches.		
<b>D</b> Describe alternative application methods based on the following priority rating: (1) connection to a municipal/public sewer system, (2) connection to a conventional subsurface disposal system as regulated by the Division of Groundwater Protection, and/or (3) land application.		

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**For Drip Dispersal Systems Only: Unless otherwise determined by the Department, sewage treatment effluent wells, i.e., large capacity treatment/drip dispersal systems after approval of the SOP Application, will be issued an UIC tracking number and will be authorized as Permit by Rule per UIC Rule 1200-4-6-.14(2) and upon issue of a State Operating Permit and Sewage System Construction Approval by the Department.**

☐ *N/A*

**Describe the following:**

The area of review (AOR) for each Drip Dispersal System shall, unless otherwise specified by the Department, consist of the area lying within a one mile radius or an area defined by using calculations under 1200-4-6-.09 of the Drip Dispersal System site or facility, and shall include, but not be limited to general surface geographic features, general subsurface geology, and general demographic and cultural features within the area. Attach to this part of the application a general characterization of the AOR, including the following: (This can be in narrative form)

A general description of all past and present groundwater uses as well as the general groundwater flow direction and general water quality.

A general description of the population and cultural development within the AOR (i.e. agricultural, commercial, residential or mixed)

Nature of injected fluid to include physical, chemical, biological or radiological characteristics.

**D** If groundwater is used for drinking water within the area of review, then identify and locate on a topographic map all groundwater withdrawal points within the AOR, which supply public or private drinking water systems. Or supply map showing general location of publicly supplied water for the area (this can be obtained from the water provider)

**D** If the proposed system is located within a wellhead protection area or source water protection area designated by Rule 1200-5-1-.34, show the boundary of the protection area on the facility site plan.

Description of system, Volume of injected fluid in gallons per day based upon design flow, including any monitoring wells

Nature and type of system, including installed dimensions of wells and construction materials

### **Pump and Haul:**

*I N/A*

Reason system cannot be served by public sewer:

Distance to the nearest manhole where public sewer service is available:

When sewer service will be available:

Volume of holding tank: gal.

Tennessee licensed septage hauler (attach copy of agreement):

Facility accepting the septage (attach copy of acceptance letter):

Latitude and Longitude (in decimal degrees) of approved manhole for discharge of septage:

Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.):

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**Holding Ponds (for non-domestic wastewater only):***1/8/11*Pond use: ☒ Recirculation ☐ Sedimentation ☐ Cooling ☐ Other (describe):

Describe pond use and operation:

If the pond(s) are existing pond(s), what was the previous use?

Have you prepared a plan to dispose of rainfall in excess of evaporation? ☒ Yes ☐ No

If so, describe disposal plan:

Is the pond ever dewatered? ☒ Yes ☐ No

If so, describe the pump use for dewatering and procedures for disposal of wastewater and/or sludge:

Is(are) the pond(s) aerated? ☒ Yes ☐ No

Volume of pond(s): gal.

Dimensions:

Is the pond lined (Note if this is a new pond system it must be lined for SOP coverage. Otherwise, you must apply for an Underground Injection Control permit.)? ☒ Yes ☐ No

Describe the liner material (if soil liner is used give the compaction specifications):

Is there an emergency overflow structure? ☒ Yes ☐ No*If so, provide a design drawing of structure.*Are monitoring wells or lysimeters installed near or around the pond(s)? ☒ Yes ☐ No*If so, provide location information and describe monitoring protocols (attach additional sheets as necessary):*

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<b>Mobile Wash Operations:</b>		<i>, NIA</i>
<input type="checkbox"/> Individual Operator		<input checked="" type="checkbox"/> Fleet Operation Operator
Indicate the type of equipment, vehicle, or structure to be washed during normal operations (check all that apply):		
<input checked="" type="checkbox"/> Cars <input checked="" type="checkbox"/> Trucks <input checked="" type="checkbox"/> Trailers (Interior washing of dump-trailers, or tanks, is prohibited.) <input checked="" type="checkbox"/> Other (describe):	<input checked="" type="checkbox"/> Parking Lot(s):          sq. ft. <input checked="" type="checkbox"/> Windows:          sq. ft. <input checked="" type="checkbox"/> Structures (describe):	
Wash operations take place at (check all that apply):		
<input checked="" type="checkbox"/> Car sales lot(s) <input checked="" type="checkbox"/> Private industry lot(s) <input checked="" type="checkbox"/> County(ies) list:	<input checked="" type="checkbox"/> Public parking lot(s) <input checked="" type="checkbox"/> Private property(ies) <input checked="" type="checkbox"/> Statewide	
Wash equipment description:		
<input checked="" type="checkbox"/> Truck mounted <input checked="" type="checkbox"/> Rinse tank size(s) (gal.): <input checked="" type="checkbox"/> Collection tank size(s) (gal.):	<input checked="" type="checkbox"/> Trailer mounted <input checked="" type="checkbox"/> Mixed tanks size(s) (gal.): Number of tanks per vehicle:	
Pressure washer:          psi (rated)          gpm (rated) <input checked="" type="checkbox"/> gas powered <input checked="" type="checkbox"/> electric		
Vacuum system manufacturer/model:		Vacuum system capacity:          inches Hg
Describe any other method or system used to contain and collect wastewater:		
List the public sewer system where you are permitted or have written permission to discharge waste wash water (include a copy of the permit or permission letter):		
Are chemicals <u>pre-mixed</u> , prior to arriving at wash location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Describe all soaps, detergents, or other chemicals used in the wash operation (attach additional sheets as necessary):		
Chemical name:	Manufacturer:	Primary CAS No. or Product No.

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# PRELIMINARY ENGINEERING REPORT

FOR



## CALISTA ROAD TREATMENT FACILITY & DRIP DISPOSAL ROBERTSON COUNTY, TN

SOP - APPLICATION

December 3, 2018



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849 Aviation Parkway  
Smyrna, TN 37167



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**THE CALISTA ROAD  
TREATMENT FACILITY & DRIP DISPOSAL  
ROBERTSON COUNTY, TN**

**Overview**

The proposed Calista Road Treatment Facility will be sited off Calista Road, west of 1-65, and southeast of Cross Plains, in Robertson County, Tennessee. The proposed Calista Road treatment facility will consist of a PVC effluent collection system, one 5,000-gallon recirculation chamber, one recirculating media filter (RMF), one 1,500-gallon final dose tank, and approx. 175,500± SF of drip disposal irrigation. This facility will be designed to serve the sewage needs of the proposed Chelsea Way Subdivision, consisting of approximately 117 proposed residential Equivalent Dwelling Units (EDU's). Each EDU will have a STEP tank to convey the effluent to the inlet of the RMF via watertight PVC collection system. Flow for the proposed development is figured thus:

Equivalent Dwelling Units or Single-Family Homes (EDU's)	
117 EDU's @ 300 GPO/ EDU:	35,100 GPO
<b>Total</b>	<b>35,100 GPD</b>

This RMF will be designed @ 5 GPO/SF with a 2:1 recirculation rate.  
35,100 GPO/ 5 GPO/SF = 7,020 SF media area (min)

The nearest standard sizing for this media area requirement is:

135 LF x 55 LF	= 7,425 SF media area
7,425 SF x 5 GPO/SF	= 37,125 GPD capacity

A 5,000-gallon pre-cast tank will be used as a recirculation chamber. The recirculation chamber will house 2 effluent pumps that will pump effluent to the top of the RMF after it has traveled through the bottom of the RMF. The effluent will be distributed over the entire surface area of the RMF using solenoid valves and a PVC piping system. During normal operation, the final discharge pumps will dispose of 50% of each recirculation cycle. When treated water is dosed to drip fields, it will be filtered through an Adenus dual arkal filtration system before dispersal. The filtration system will contain four (4) disc filters that will filter out particles larger than 100 micron. Dripper lines will periodically be flushed, and flush water will be returned to the recirculation tank.

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### **Recirculation Tank**

Use one 5,000-gallon pump tank. The pump tank shall house two submersible HCP pumps, MODEL A-43. A PLC telemetry panel shall control the pumps.

### **Collection Lines**

The proposed sewer collection system will consist of watertight SDR21 SCH40 PVC ranging from 2"0 to 4"0 in size.

### **STEP Systems:**

Each EDU will require one 1,500-gal STEP tank that will pump to the RMF via collection system. The following pumping system will be used, or equal as approved by the Service Provider (Adenus Operations).

- PUMP - model S10P4JP05121, 115V, 7-stage pump, as manufactured by Sta-Rite
- MOTOR - model P42B0005A1 as manufactured by Sta-Rite
- 1500 GALLON STEP TANK - 1500 gallon, structurally sound, watertight tank as manufactured by Jarrett Concrete Products
- SF1-ETM Control Panel - as manufactured by Adenus Technologies

### **Drip Irrigation Disposal Soils**

**Hydraulic Loading:** The proposed drip fields will be installed in Ennis-Armour, and Bewleyville-Dewey-Etowah soils. The Ennis-Armour series consists of deep, well drained soils that formed in gravelly alluvial sediments derived from soils formed in limestone, shale, and sandstone. The Bewleyville-Dewey-Etowah series consists of very deep, well drained soils formed in silty mantle 2-3.5 feet thick with underlying loamy or clayey material.

The Netafim design manual (which has been adopted by TWSI) recommends a loading rate of 0.2 - 0.5 gpd/sf/day for silt loams with weak to moderate structures. Therefore, the design loading rate will be 0.2 gpd/sf/day.

Design daily flow for disposal  
Design loading rate

= 35,100 GPO  
= 0.20 gal/sf/day (gpd/sf)

$35,100 \text{ GPO} + 0.20 \text{ gpd/sf} = 175,500 \pm \text{ SF soil area required.}$

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TWSI requires that a redundancy amount of 50% be included in the amount of soils required for disposal.

$175,000 \pm \text{SF (required)} \times 1.5 = 262,500 \pm \text{SF TOTAL soil area required by TWSI.}$

**This site has ~310,085± SF suitable soils available**

The drip system will be constructed using Netafim Bioline 0.570 ID (1/2") pipe, with 2-foot orifice spacing of emitters, will be plowed-in-place on approximately 5-foot pipe centers. Actual installation will be dictated by existing grade, and at the direction of the design engineer. Actual installed LF of piping should be expected to range from a minimum of 32,500± LF of pipe, to a maximum of 35,000± LF of pipe.

Normal dosing pressure will be minimum of 25 PSI (58 ft of head) and a maximum of 60 PSI (138 ft of head). If possible, design will stay in this range without pressure reducers and multiple pumps.

The drip system will be supplied with filtered effluent via an Adenus two-arkal filtration system. Drip irrigation fields will have automatic flushing capabilities, controlled by the PLC panel. The drip piping will automatically flush a minimum of once per month or more, as directed by the operator. During periods of low or no flows (when the water level in the recirculation side of the RMF falls below 8" in depth), the PLC panel will turn "off" the final dose pumps and go into 100% recirculation mode, until the water level in the recirculation side of the RMF returns (rises) to 8" in depth.

#### **Installation Specifications:**

Installation of all components of the wastewater collection system will conform to the specifications of Tennessee Wastewater Systems, Inc.

Installation contractors should contact David Foster at:

david.foster@adenus.com, or at (615) 220-7200 ext. 135 - for a PDF copy of the specifications.

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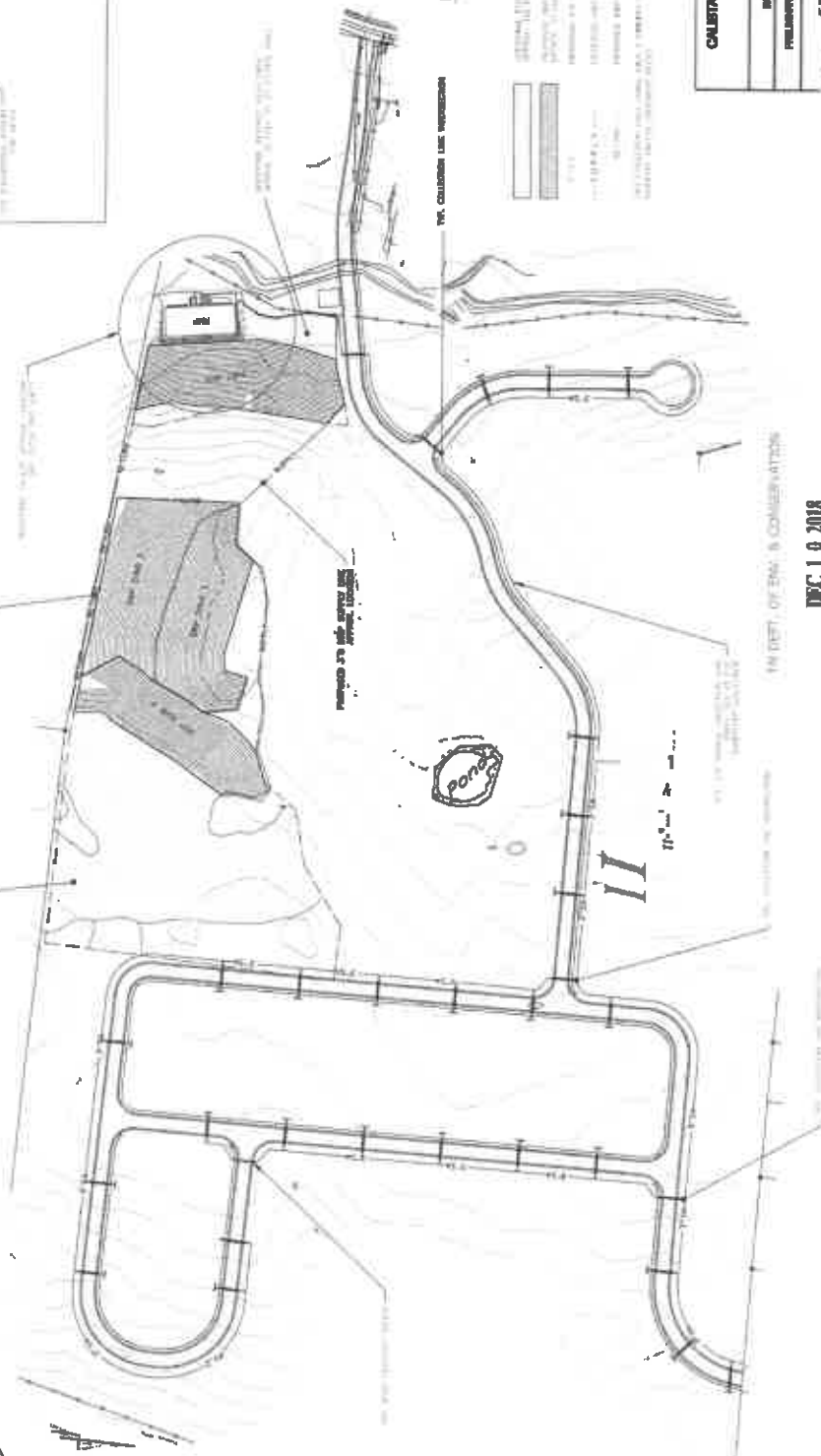
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<b>CAUETA ROAD TREATMENT FACILITY</b> <b>FOR</b> <b>CHELSEA WAY</b>	
<b>PRELIMINARY</b>	<b>DESIGNED -</b>
<b>DESIGNED BY:</b> <b>DR. J. L. HARRIS, JR.</b> <b>DATE:</b> <b>10/1/68</b>	<b>PROJECT NO.:</b> <b>100-100-100</b>
<b>PROJECT NO.:</b> <b>100-100-100</b>	<b>PROJECT NO.:</b> <b>100-100-100</b>

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Calista Rd.

Job JT 314TB

DEC 10 2008

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70.00 Acres +

Shelia Graves Miller  
R.B. 1116 P. 457  
Tax Map 646 Parcel 78.01

Christophe at  
Guns 1006  
P.B. 665  
Tax Map 646

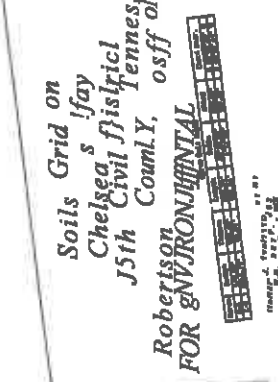
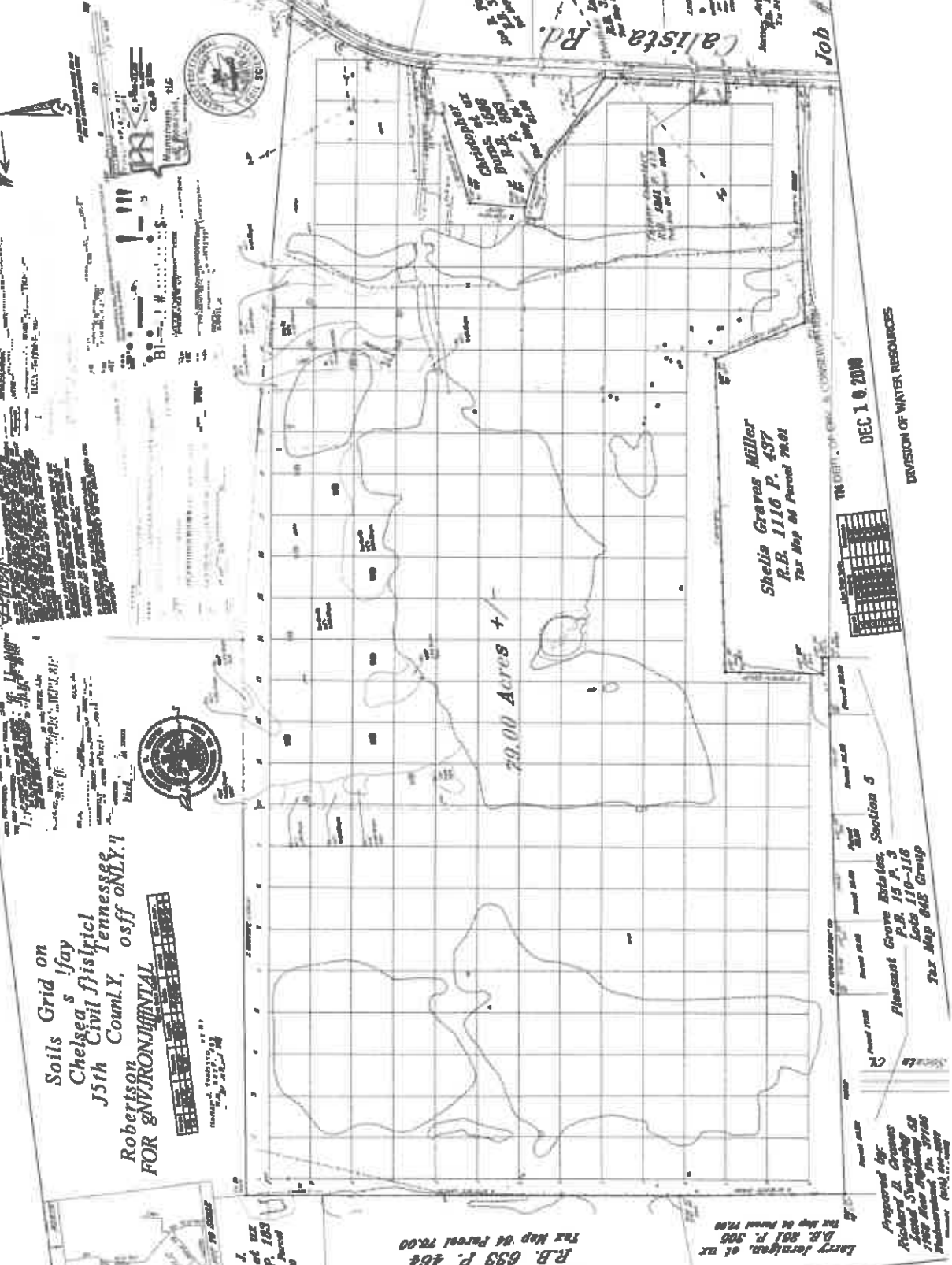
Miller at  
Guns 1006  
P.B. 665  
Tax Map 646

Soils Grid on  
Chelsea's Way  
J5th Civil District  
Tennessee  
Robertson  
County, Tenn  
FOR GNVORONMINTAL

Prepared by:  
Richard B. Graves  
Land Surveying Co.  
1108 Newbern Pk. 37106  
Durham, NC 27704

Dennis Wayne Bush  
R.B. 633 P. 464  
Tax Map 646 Parcel 78.00

Larry Jennings, et ux  
R.B. 881 P. 505  
Tax Map 646 Parcel 78.00



## TDEC - DWR Soil Pedon Description Form

Date	Time	Deafed by	On-duty / from	Kevin Deatonson
3/1/2018	12:12	ADAM PHILLIPS		

-----  
 @Name@Lcabin\_@W@  
 AJP-Lcabin\_ .100 000017

Exp. of file  **SP1 (office JP only)**

Set Series	Algebraic	Differential Equations

Soil Control 1 Sample / 1" x 1" = 0.175'

Parent Material	Avg. C:N:M	Days to 100% Biomass	Cost	Notes
Parent Material	Avg. C:N:M	Days to 100% Biomass	Cost	Notes

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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[illegible][illegible]

Physiographic Location: HIGHLAND RIM

Additional Notes:

Soil Pedon Description									
Horizon	Depth (inches)	Matrix Color	Dipstick concentrations	Depth to Low Chroma Mottles (inches)	Soil Test/Type	Soil Structure			Soil Horizon Notes
						Grade	Size	Type	
3E	0-3				L	1/2	1	GR / F	
5	3-7				L	2	1	GR	
6A	7-10				L	1	M	5-9	
B4	10-12				80% L	2		CG	
	12-14				HL			13N	
8-10	14-16				80% L	2		5-9	
2004f	16-41				80% L		L	!	

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TDEC - DWR	Soil	Pedon	Description	Form
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Site Name & Location: S:W PERMIT III		Stop or Plot #: Z	
Soil Series: C-TOWAHE		Soil Content Rating: Fine Loams	
Parent Material: RESIDUUM		Ground VERT. or Web: none	
Climate: T-High		Erosion: SEVERE	
Slope: 20% (10°)		Land Cover: MIXED GRASS + WEEDS	
Slope Aspect: N		Top. or P.C. 99	
Geographic Coordinates: 31° 31' N 111° 11' W		Latitude (center of plot 0.40)	
Photographic (top): 4.16 11/11/00		Photographic (bottom): 4.16 11/11/00	
Additional Notes:			

## Soil Pedon Description

No.	Digital Form	MNR's Coor	Redox Depletions/Concentration	Depth m Low Chroma Mottles (Inches)	Soil Texture	Soil Structure			Notes
						Grade	She	Type	
AP	O-1				SIL	1/2	P/M	CR/XYL	
A <sub>1</sub>	J-	-			ILL	Z	M	SH	
Bt	3-16				CL	Z	L	L <sub>xy</sub> ic	
Bt 2	17-21				CL	I	t1	Jr	
Bt 3	22-27				LL	Z	"	B <sub>xy</sub>	
Bt 4	28-34				CL	I	"	SH	
									TN DEPT. OF AGRICULTURE

TN DEPT. OF ENV. &amp; CONSERVATION

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TDEC - DWR	Soil	Pedon	Description	Form
------------	------	-------	-------------	------

[illegible]

Site Name & Location: 3 | W-1-A-1-Lr

top or  $t$  R 3 SCP / (office use o.y):

Sol Series.	615A	Drainage Class:	MODERATE	WPA	DETAILED
-------------	------	-----------------	----------	-----	----------

Soil Profile Section: F 144

[illegible]

Classification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

Climate	I (I) M / 6	Land Cover:	Mt. Nassau	Feb 23
	0-00%		Yin'	

[illegible]

Latitude/Longitude (Center of soil area):

Physiographic Location: Highland Bar

Additional Notes: 9 RECEIVED 06/29/2017

## Soil Pedon Description

Horizon	Depth (cm)	Mottles Color	Moisture Concentrations	Depth to Low Chroma Mottles (cm)	Soil Texture	Soil Structure			Soil Horizon NOHPS
						Grade	Site	Position	
AP	0 - 11				CL	VL	F/M	BR/SC	
BA	4 - 9				ICL	Z	M	SC	
Ab	1 - 10				T(L)	2	M	5isV-	
8 - 15	1 - 15				KL	Z	M	5svf<	
8 - 16	1 - 16				SLCL	Z	M	SC	
8 - 17	1 - 17								
8 - 18	1 - 18								
8 - 19	1 - 19								
8 - 20	1 - 20								
8 - 21	1 - 21								
8 - 22	1 - 22								
8 - 23	1 - 23								
8 - 24	1 - 24								
8 - 25	1 - 25								
8 - 26	1 - 26								
8 - 27	1 - 27								
8 - 28	1 - 28								
8 - 29	1 - 29								
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**TN DEPT. OF ENV. & CONSERVATION**

DEC 10 2018

DIVISION OF WATER RESOURCES

## TDEC - DWR Soil Pedon Description Form

Date: 31 JUL 2018	Designated by: A-00A-18-185-000-014	QA/QC By: TERRY / KAY	DIC 10/RSBW
Site Name Location: 3100 REEDS		County: HENRYS	
Step or Plot #: 4	SOP # (office use only):		
Soil Surface: EOWAN / SENGTON	Soil Core Class: 1 E		
Soil Control Section: OTHER 100 IN Y	Ground Water or Water Table: None		
Parent Material: 8 F5 HILL	Erosion: " GMB		
	Land Cover: 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100		
Slope of Map Unit: 10-20%	Slope of Plot: 11%		
Geomorphic Description: HIGH SANDY TERRACE	Altitude/Elevation: (center of soil area):		
Physiographic Locality: HILL AND RIM			
Additional Notes:			

[illegible]

## ENV. & CONSERVATION

DEC 10 2018

DIVISION OF WATER RESOURCES

# TDEC - DWR Soil Pedon Description Form

Date: 7 SEPT 2018 Described By: Adam BROWN ONOC BY: TERRY HENRY

Site Name & Location: 3100 REALTY LLC County: ROBERTSON

Soil Profile: 1/1 SO # & reference: ---

Soil Series: BEWLEYVILLE Drainage Class: WELL

Soil Control Method: FINES - SILTY Ground Water or Water Table: 1-10 FT

Parent Material: LOESS AND RESIDUAL Erosion: 1/10 - 1/100

Climate: 1-10 Latitude: 31° 00' N Longitude: 95° 00' W

Soil pH at 1:1: 6.0 Bulk Density: 1.35

Soil Moisture Description: 1-10 Organic Content: 1.0

Physiographic Location: 1-10 Additional Notes: 1-10

## Soil Pedon Description

Horizon	Depth (inches)	Munsell Color	Redox Depletions/Concentrations	Depth to Lower Orbital (inches)	Soil Texture	Soil Structure			Other Notes
						Grade	Size	Shape	
<u>W1</u>	<u>0-3</u>								
<u>4p2</u>	<u>3-10</u>								
<u>4</u>	<u>10-15</u>								
<u>4</u>	<u>15-21</u>								
<u>4</u>	<u>21-31</u>								
<u>4</u>	<u>31-45</u>								

TN DEPT. OF ENV & CONSERVATION

DEC 10 2018

DIVISION OF WATER RESOURCES

# TDEC- DWR Soil Pedon Description Form

[illegible]

## Soil Pedon Description

Horizon	Depth (inches)	Matrix Color	Redox Oxidation/Reduction	D pH to LowChroma Mottles (index)	Bed Texture	Soil Structure			Soil Horizon Not <
						Gr dc	Size	Type	
1p	0-7				cl	2	1/2	2.0-2	
2A	7-11				cl	3	1/2	2.0-2	
3	11-19				sc	4	2/4	2.0-2	
4B2t	19-21...				sc	5	2/4	2.0-2	
4B2c	21-23				sc	5	2/4	2.0-2	
5B2t	23-25				sc	5	2/4	2.0-2	

## DIVISION OF WATER RESOURCES

## TDEC - DWR Soil Pedon Description Form

Date: 12-12-72	Time: 10:15 AM	Project: RV	Country: USA
Site Name & Location: 12-12-72		Stop or Pit #2	Stop (office use only):
Soil Series: Keweenaw	Parent Material: Löss	Unit & Class: 12-12-72	Ground Water or Water Table: NONE
Climate: T4	Soil: 12-12-72	Erosion: SLIGHT	
Scale & Map Unit: D-90/0	Latitude/Longitude or (Center of soil area):	1 m Cover: 5'	
Geomorphologic Description:			
Physiographic Location:			
Additional Notes:			

### Soil Pedon Description

Horizon	Depth sill, hill)	Matrix Color	Reduct Depletions/OMC-Depletions	Depth to Low Chroma Mottles (inches)	Soil Texture	Soil Structure			Soil Horizon Notes
						Grade	Site	Type	
Top	0-6"				CL	ii	F/R	6e/5d	
	6-12"				CL		M	5d/5e	
	12-18"				2y: 1	iii	M	5d/5e	
	18-24"				CLC	2	M	5d/5e	
	24-30"				CL	ii	M	5d/5e	
	30-36"				CL	i	M	5d/5e	

TN DEPT OF ENV & CONSERVATION

DEC 10 2018

DIVISION OF WATER RESOURCES

# TDEC - DWR Soil Pedon Description Form

User: OR SEPT 2018 Described By: ADAM BROWN Date: 10/11/2018 County: ROBERTSON  
 Site Name & Location: NEW RIVER SCP 1 (office use only):  
 Top of P1: 13 Drainage Class: WELL  
 Soil Series: BOWLESVILLE Ground Water or Water Table: 0.1 ft  
 Soil Capital Section: FINE-SILT Erosion: SEVERE  
 Prim Material: LOESS AND SANDSTONE Land Cover: MIXED FOREST WOODS  
 Climate: THUNDER Slope of Map Unit: 0-6.0%  
 Geomorphic Description: Upland Latitude/Longitude (Center of soil area):  
 Physiographic Location: WILSON IM  
 Additional Notes:

## Soil Pedon Description

Horizon	Depth (inches)	Moiré Color	Redox Depletions/Concentrations	pH to Low Chroma Mottles (anchored)	Soil Texture	Soil Structure	Soil Horizon Notes
						Grade	typo
<u>1</u>	<u>0 - 3</u>				<u>SCL</u>	<u>Flvi</u>	<u>fl</u>
<u>2</u>	<u>3 - 10</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>3</u>	<u>10 - 18</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>4</u>	<u>18 - 31</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>5</u>	<u>31 - 49</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>6</u>	<u>49 - 67</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>7</u>	<u>67 - 85</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>8</u>	<u>85 - 103</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>9</u>	<u>103 - 121</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>10</u>	<u>121 - 139</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>11</u>	<u>139 - 157</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>12</u>	<u>157 - 175</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>13</u>	<u>175 - 193</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>14</u>	<u>193 - 211</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>15</u>	<u>211 - 229</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>16</u>	<u>229 - 247</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>17</u>	<u>247 - 265</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>18</u>	<u>265 - 283</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>19</u>	<u>283 - 301</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>20</u>	<u>301 - 319</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>21</u>	<u>319 - 337</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>22</u>	<u>337 - 355</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>23</u>	<u>355 - 373</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>24</u>	<u>373 - 391</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>25</u>	<u>391 - 409</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>26</u>	<u>409 - 427</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>27</u>	<u>427 - 445</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>28</u>	<u>445 - 463</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>29</u>	<u>463 - 481</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>30</u>	<u>481 - 499</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>31</u>	<u>499 - 517</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>32</u>	<u>517 - 535</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>33</u>	<u>535 - 553</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>34</u>	<u>553 - 571</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>35</u>	<u>571 - 589</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>36</u>	<u>589 - 607</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>37</u>	<u>607 - 625</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>38</u>	<u>625 - 643</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>39</u>	<u>643 - 661</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>40</u>	<u>661 - 679</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>41</u>	<u>679 - 697</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>42</u>	<u>697 - 715</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>43</u>	<u>715 - 733</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>44</u>	<u>733 - 751</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>45</u>	<u>751 - 769</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>46</u>	<u>769 - 787</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>47</u>	<u>787 - 805</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>48</u>	<u>805 - 823</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>49</u>	<u>823 - 841</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>50</u>	<u>841 - 859</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>51</u>	<u>859 - 877</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>52</u>	<u>877 - 895</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>53</u>	<u>895 - 913</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>54</u>	<u>913 - 931</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>55</u>	<u>931 - 949</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>56</u>	<u>949 - 967</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>57</u>	<u>967 - 985</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>58</u>	<u>985 - 1003</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>59</u>	<u>1003 - 1021</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>60</u>	<u>1021 - 1039</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>61</u>	<u>1039 - 1057</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>62</u>	<u>1057 - 1075</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>63</u>	<u>1075 - 1093</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>64</u>	<u>1093 - 1111</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>65</u>	<u>1111 - 1129</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>66</u>	<u>1129 - 1147</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>67</u>	<u>1147 - 1165</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>68</u>	<u>1165 - 1183</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>69</u>	<u>1183 - 1201</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>70</u>	<u>1201 - 1219</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>71</u>	<u>1219 - 1237</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>72</u>	<u>1237 - 1255</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>73</u>	<u>1255 - 1273</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>74</u>	<u>1273 - 1291</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>75</u>	<u>1291 - 1309</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>76</u>	<u>1309 - 1327</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>77</u>	<u>1327 - 1345</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>78</u>	<u>1345 - 1363</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>79</u>	<u>1363 - 1381</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>80</u>	<u>1381 - 1399</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>81</u>	<u>1399 - 1417</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>82</u>	<u>1417 - 1435</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>83</u>	<u>1435 - 1453</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>84</u>	<u>1453 - 1471</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>85</u>	<u>1471 - 1489</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>86</u>	<u>1489 - 1507</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>87</u>	<u>1507 - 1525</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>88</u>	<u>1525 - 1543</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>89</u>	<u>1543 - 1561</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>90</u>	<u>1561 - 1579</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>91</u>	<u>1579 - 1597</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>92</u>	<u>1597 - 1615</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>93</u>	<u>1615 - 1633</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>94</u>	<u>1633 - 1651</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>95</u>	<u>1651 - 1669</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>96</u>	<u>1669 - 1687</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>97</u>	<u>1687 - 1705</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>98</u>	<u>1705 - 1723</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>99</u>	<u>1723 - 1741</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>
<u>100</u>	<u>1741 - 1759</u>				<u>SCL</u>	<u>fl</u>	<u>fl</u>

TN DEPT. OF ENV. & CONSERVATION

DEC 10 2018

DIVISION OF WATER RESOURCES

# TDEC - DWR Soil Pedon Description Form

Date: 7/5/00 U.S. County: ... State: ... City: ...  
 Site Name & Location: ...  
 SLP or PR: ...  
 Soil Series: ...  
 Soil Control Section: ...  
 Parent Material: ...  
 Climate: ...  
 Substratum: ...  
 Geomorph. description: ...  
 Physiographic location: ...  
 Additional Notes: ...

## Soil Pedon Description

Horizon	Depth (inches)	1/4 inch Color	Field & Lab Observations	Depth to Low Chrom. Mottles (inches)	Soil Texture	Soil Structure	Soil Horizon Note
						Grade	Type
0-2					IL	1/Z	FBI R58L
2-10					SICL	I	NI 58k
Bh 10-16					SICL	2	NI CR
16-20					SICL	2	NI 131
20-25					<1cl	2	r>? SBk
25-32					CL	I	m 5Bk
ZBfs 32-17					Str.	I	NI SBk

IN DEPT. OF V & CONSERVATION

DEC 102018

DIVISION OF WATER RESOURCES

# TDEC - DWR Soil Pedon Description Form

Date: 07 Sept 2018 Described by: Adam Rogers CA/QC: TERRY HENRY / KIM DUTCHESAU

Site Name & Location: 31 REALTY LLC County: ROBERTSON

Stop or Pit # 1h SOP (offroad unit):

Soil Series: BEVELLYVILLE

Soil Control Section: FINE SAND

Parent Material: FINE SAND

Climate: TROPICAL

Land Cover: MIXED SUGAR + WOODS

Stop or Pit Unit: D-8%

Geomorphic Description: (H.A.V.)

Phylographic Location: HIGHLAND

Additional Notes:

## Soil Pedon Description

Horizon	Depth (inches)	Munsell Color	Redox Depletions/Concentrations	Depth to 1st Chrom Mottles (inches)	Soil Texture	Soil Structure	Soil Horizon MOCA
AP	0-3				SCL	Grade: I+Z Size: FFAA Type: M2+SUI	
Jim	3-7				SCL	Grade: -Z Size: FFAA Type: SRK	
3	7-9				SCL	Grade: I Size: FFAA Type: SGY-	
4	9-11				SCL	Grade: Z Size: FFAA Type: SGY-	
5	11-23				SCL	Grade: -Z Size: FFAA Type: SGY-	
15	23-31				SCL	Grade: I Size: FFAA Type: SGY-	
20	31-45				SCL	Grade: I Size: FFAA Type: SGY-	

DEC 10 2018

DEC 10 2018

DIVISION OF WATER RESOURCES



# Robertson County - Parcel: 084 079.00



Date: November 1, 2018  
County: Robertson  
Owner: 31-W REALTY LLC  
Address: CALISTA RD  
Parcel Number: 084 079.00  
Deeded Acreage: 78.99  
Calculated Acreage: 0  
Date of Imagery: 2013

TN DEPT. OF ENV. & CONSERVATION

DEC102018

DIVISION OF WATER RESOURCES

## Calista Road Treatment Facility AOR Map

TN Con., title - 01.0  
Belt HERE, G...h, C OpenStr-Aapexnribuers  
TOOT  
State dTemeosae, Comptroler d To T.,ealy, Office d Local Gc,emmt  
(OLD)

The property lines are sampled from information maintained by the local county office but do not constitute evidence of property ownership.

## **AREA OF REVIEW (AOR)**

*Groundwater uses within the AOR (past & present):* Past and present groundwater uses within the AOR include residential and agricultural supply from private wells.

*Groundwater General Description:* The proposed region is a mix of pasture and mature woodlands with silty loam, and deep moderately well drained soils. The Calista Road wastewater treatment area drainage flow path migrates generally to the north and the east towards Red River.

*Population and Cultural Development:* The majority of the Area of Review is agricultural land used primarily for pasture. HWY 25 is located to the north, as well as Red River. 1-65 is located to the east. County planning data suggests the region as a growth area. The surrounding area is predominantly large tracts of pasture land, with large tract residential properties and some woodlands.

*Nature of Fluid:* The Calista Road Treatment Facility is designed to accommodate typical residential waste from the proposed Chelsea Way Subdivision.

*Public Water Supply:* White House Utility District supplies public drinking water within the AOR.

White House Utility District  
3303 US-31W  
White House, Tennessee 37188  
Information (615) 672-4110

*Nature and Type of System:* The Calista Road Treatment Facility will be designed for approximately 35,100 GPO wastewater treatment. Wastewater treatment will be accomplished by Recirculating Media Filter (RMF) technology, with a treatment capacity of 37,125 GPO. Treated wastewater will be disposed of via Netafim Bioline plowed in place in dedicated disposal soils area.

### **Disposal Capacity:**

The Calista Road TF will serve the proposed Chelsea Way subdivision. Total treatment is expected to be 35,100± GPO. Approximately 4.36± acres of TDEC approved drip disposal soils will be utilized for the purposes of dispersal. With a loading rate of 0.2 GPO/SF, total dispersal capacity will be approximately 38,000± GPO.

TN DEPT. OF ENV. & CONSERVATION

DEC 102018

DIVISION OF WATER RESOURCES

EX. 20

**STATE OF TENNESSEE**  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
**WATER AND WASTEWATER OPERATOR CERTIFICATION BOARD**

LD. NO.

**15046**

EXPIRATION DATE

**12/31/2019**

RENEWAL NO.

**99310**

THIS IS TO CERTIFY THAT:

**Tracy A Nichols**

IS IN GOOD STANDING WITH THE BOARD FOR THE CLASSIFICATIONS LISTED:

**BNS**

**CS2**

WHEN THIS BOARDING IS AT ISSUE, PLEASE RETURN TO THE BOARD

3:23 PM  
02/12/19  
Accrual Basis

**Tennessee Wastewater Systems, Inc.**  
**Balance Sheet**  
**As of December 31, 2018**

	Dec 31, 18
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
131 - Cash	
131.1 - AmSouth - CD	1,403.85
131.6 - Pinnacle CIAC (010294705)	959.83
131.7 - Pinnacle Checking	2,841.94
131.14 - FirstBank - Checking	495,996.48
131.15 - FirstBank - Rider Depository	64,818.80
131.16 - FirstBank - CIAC	709,959.03
<b>Total 131 - Cash</b>	<b>1,275,777.73</b>
<b>Total Checking/Savings</b>	<b>1,275,777.73</b>
<b>Accounts Receivable</b>	
141 - Customer A/R	
141.1 - Sewer Service	
141.12 - East TN	141,267.85
141.1 - Sewer Service - Other	231,605.12
<b>Total 141.1 - Sewer Service</b>	<b>372,872.77</b>
143 - Bad Debt Reserve	244,860.96
141 - Customer A/R - Other	69,148.00
<b>Total 141 - Customer A/R</b>	<b>686,881.73</b>
<b>Total Accounts Receivable</b>	<b>686,881.73</b>
<b>Other Current Assets</b>	
Allowance for Bad Debt	-230,422.63
99.99 - Customer Count Offset	
99.01 - Customer Count - Rate Class 1	22,455.00
99.02 - Customer Count - Rate Class 2	424.00
99.03 - Customer Count - Rate Class 5	804.00
99.04 - Customer Count - Rate Class 6	1,894.00
99.05 - Customer Count - Rate Class 9	2,398.00
99.06 - Customer Count - Comm Cabin	8,363.00
99.07 - Customer Count - Comm w/ Food	294.00
99.08 - Customer Count - Comm Nonfood	512.00
99.99 - Customer Count Offset - Other	-37,144.00
<b>Total 99.99 - Customer Count Offset</b>	
151.00 - Plant Material & Supplies	83,895.69
133 - Deposit - Williamson County	5,000.00
174 - Misc. Current and Accrued Asset	
174.2 - Construction Pass-Maple Green	-13,693.01
<b>Total 174 - Misc. Current and Accrued Asset</b>	<b>-13,693.01</b>
<b>Total Other Current Assets</b>	<b>-155,219.95</b>
<b>Total Current Assets</b>	<b>1,807,439.51</b>
<b>Fixed Assets</b>	
105.0 - Construction In Process	
105.1 - Smoky Village	14,167.34
105.2 - Maple Green	65,385.24
105.3 - Cedar Hill	135,112.55
105.0 - Construction In Process - Other	416,210.42
<b>Total 105.0 - Construction In Process</b>	<b>630,855.55</b>
101 - Utility Plant In Service	
354 - Structures & Improv - Capital	18,586.95
360.5 - Sewer Force Main - Capital	93,346.43
353.5 - Land - Capital Asset	41,830.50
353 - Land	2,772,270.89

3:23 PM  
02/12/19  
Accrual Basis

**Tennessee Wastewater Systems, Inc.**  
**Balance Sheet**  
**As of December 31, 2018**

	Dec 31, 18
380 • Collection Sewers-Force	210,000.00
381 • Collection Sewers-Gravity	2,371,714.00
380 • Treatment and Disposal Equip	17,309,794.72
390 • Office Furniture & Misc. Equip	271,184.59
391 • Transportation Equipment	379,259.27
<b>Total 101 • Utility Plant in Service</b>	<b>23,487,987.35</b>
108 • Accum. Deprec.-Utility Plant	-9,128,825.54
108.1 • Accum. Deprec.- Equip	-340,888.14
108.2 • Accum. Deprec.Cap. - Buildings	-1,053.99
108.3 • Accum. Deprec.Cap. - Force Main	-2,594.89
<b>Total Fixed Assets</b>	<b>14,627,880.34</b>
<b>Other Assets</b>	
Deferred Tax Benefits	800.29
<b>Total Other Assets</b>	<b>800.29</b>
<b>TOTAL ASSETS</b>	<b>16,435,720.14</b>
<b>LIABILITIES &amp; EQUITY</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
Accounts Payable	
231 • Accounts Payable	149,681.08
<b>Total Accounts Payable</b>	<b>149,681.08</b>
<b>Other Current Liabilities</b>	
236.12 • Tax from CIAC	3,828.00
2110 • Direct Deposit Liabilities	0.01
241 • Misc. Current & Accrued Liab.	
241.1 • Payroll Liabilities	
241.1.6 • Aflac Payable	99.72
241.1.6 • Workers Comp Payable	800.47
241.1.1 • SUI	37.87
241.1.3 • FUTA	45.45
241.1.4 • Simple IRA Payable	1,847.86
<b>Total 241.1 • Payroll Liabilities</b>	<b>2,831.37</b>
<b>Total 241 • Misc. Current &amp; Accrued Liab.</b>	<b>2,831.37</b>
242 • Intercompany Liabilities	
242.1 • Intercompany-Adenus Group	-492,166.46
242.10 • Intercompany-ALWW	-5,475.02
242.5 • Intercompany-Adenus Operations	2,538,118.30
242.6 • Adenus Technologies	181,534.25
242.7 • Intercompany-Commonwealth	-2,074.76
242.9 • Intercompany Cash	-1,487,957.74
<b>Total 242 • Intercompany Liabilities</b>	<b>741,976.57</b>
<b>Total Other Current Liabilities</b>	<b>748,633.95</b>
<b>Total Current Liabilities</b>	<b>898,315.03</b>
<b>Long Term Liabilities</b>	
232 • Notes Payable	
232.3 • Wilson B&T (2) 2018 Chevy Truck	18,859.62
232.6 • First Bank - Truck	3,847.89
232.7 • First Bank - Mini X	14,621.33
232.8 • First Bank - Truck - ETN	8,395.63
232.9 • Wilson B&T - (2) Skid Steers	63,481.56
232.10 • Wilson B&T - ETN Truck	31,340.27
232.11 WB&T - Truck	33,591.42

3:23 PM  
02/12/19  
Accrual Basis

**Tennessee Wastewater Systems, Inc.**  
**Balance Sheet**  
**As of December 31, 2018**

	Dec 31, 18
232.12 • FB Environmental Loan - RR	193,148.79
<b>Total 232 • Notes Payable</b>	<b>367,286.51</b>
265 • Misc. Operating Reserves	
265.1 • Inspection Costs	129,515.00
265.2 • Sewer Sys/Comp Repl - Post 2006	-128,579.51
265.4 • Eudaily Reserve	53,855.25
<b>Total 265 • Misc. Operating Reserves</b>	<b>58,790.74</b>
<b>Total Long Term Liabilities</b>	<b>424,077.25</b>
<b>Total Liabilities</b>	<b>1,322,392.28</b>
<b>Equity</b>	
215 • Retained Earnings	272,551.23
271 • Cont. In Aid of Construction	
271.1 • CIAC - Williamson County	1,519,200.00
271.5 • CIAC -ETN Capital	28,020.00
271 • Cont. In Aid of Construction - Other	22,604,451.72
<b>Total 271 • Cont. In Aid of Construction</b>	<b>24,151,671.72</b>
272 • Accum. Amort. on CIAC	-9,143,048.91
<b>Net Income</b>	<b>-167,846.18</b>
<b>Total Equity</b>	<b>15,113,327.86</b>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>16,435,720.14</b>

3:22 PM

02/12/19

Accrual Basis

## Tennessee Wastewater Systems, Inc.

## Profit &amp; Loss

January through December 2018

Jan - Dec 18

## Ordinary Income/Expense

## Income

## 400 - Operating Revenues

## 521 - Flat Rate Revenues

## 521.1 - Residential-Flat Sewer

521.1.1 - Residential Rate 1

801,467.32

521.1.2 - Residential Rate 2

14,964.27

521.1.3 - Residential Rate 3

30,600.90

521.1.4 - Residential Rate 6

58,923.27

521.1.5 - Residential Rate 9

150,175.19

521.1 - Residential-Flat Sewer - Other

-12.27

## Total 521.1 - Residential-Flat Sewer

1,056,118.68

## 521.2 - Commercial Sewer

521.2.1 - Commercial Cabin

454,754.43

521.2.2 - Commercial w/ Food

219,946.94

521.2.3 - Commercial Nonfood

86,821.73

521.2 - Commercial Sewer - Other

## Total 521.2 - Commercial Sewer

761,523.10

## Total 521 - Flat Rate Revenues

1,817,641.78

## 536 - Other Wastewater Revenues

## 536.1 - Sewer Access Fees

173,122.72

## 536.3 - Operations &amp; Maintenance

362.57

## 536.4 - Billing &amp; Collections

-160.87

## 536.5 - Bonding

4,181.83

## 536.6 - Franchise Income

3,389.55

## 536.7 - Bioxide

## 536.9 - Penalty Fees

14,651.23

## 536.10 - Disconnect/Reconnect Charges

3,889.20

## 536.12 - Legal Expense Rate Rider

7,473.15

## 536.13 - Environmental Repairs Rider

61,953.28

## 536 - Other Wastewater Revenues - Other

60.00

## Total 536 - Other Wastewater Revenues

268,722.46

## Total 400 - Operating Revenues

2,086,364.24

## 421 - Nonutility Income

## 421.5 - Developer Income

206,250.00

## Total 421 - Nonutility Income

206,250.00

## Total Income

2,292,614.24

## Gross Profit

2,292,614.24

## Expense

## 401 - Operating Expenses

## 701.6 - Salary &amp; Wages - Construction

67,303.56

## 701 - Salaries and Wages - Employees

574,853.72

## 704 - Employee Benefits

## 704.2 - Life Insurance

2,091.02

## 704.1 - Workers Compensation

16,196.48

## Total 704 - Employee Benefits

18,287.50

## 705 - Simple IRA

14,610.54

## 710 - Purchased Wastewater Treatment

116,597.48

## 716 - Purchased Power

160,563.11

## 716 - Telemetry Monitoring

173,192.27

## 718 - Bioxide

3,680.00

## 720 - Materials and Supplies

190,518.70

## 731 - Contractual Svc - Professional

26,694.09

## 735 - Contractual Svc - Testing

7,932.30

3:22 PM  
02/12/19  
Accrual Basis

**Tennessee Wastewater Systems, Inc.**  
**Profit & Loss**  
January through December 2018

	Jan - Dec 18
<b>736 • Contractual Services</b>	
736.02 • Contract Maintenance	12,247.24
736.03 • Contractual Svc	1,505.00
736.04 • Subcontract Work	1,700.00
736.08 • Lawn Mowing	28,062.60
736.10 • One-Call Expenses	5,831.15
736.12 • AUG - MGMT Fees	321,256.63
736.13 • IT Expenses	74,238.35
<b>Total 736 • Contractual Services</b>	<b>444,840.97</b>
<b>740 • Rent</b>	<b>60,945.00</b>
<b>750 • Transportation Expense</b>	
750.3 • Registration Renewal	617.65
750.1 • Fuel	66,022.50
750.2 • Vehicle Maintenance	25,954.53
<b>Total 750 • Transportation Expense</b>	<b>92,594.68</b>
<b>755 • Insurance</b>	
755.10 • Dental Insurance	2,255.45
755.8 • Auto Insurance	18,330.95
755.9 • Health Insurance	10,659.97
755 • Insurance - Other	6,916.03
<b>Total 755 • Insurance</b>	<b>38,162.40</b>
<b>765 • Regulatory Commission Exp.</b>	
765.3 • Inspection Fee	8,279.28
<b>Total 765 • Regulatory Commission Exp.</b>	<b>8,279.28</b>
<b>770 • Bad Debt</b>	<b>7,875.07</b>
<b>775 • Miscellaneous Expenses</b>	
775.21 • Website and Internet Hosting	726.21
775.27 • Equipment Maintenance	7,177.18
775.26 • Equipment Rental	19,405.66
775.25 • Small Equipment Purchase	329.58
775.1 • Telephone	10,315.09
775.10 • Office Supplies	1,033.90
775.11 • Letter of Credit - Fees	
775.111 • LC Fee - State Wide	10,500.00
<b>Total 775.11 • Letter of Credit - Fees</b>	<b>10,500.00</b>
775.12 • Depreciation Expense	124,529.88
775.2 • Postage	9,939.28
775.20 • Software Licenses	23,132.50
775.3 • Licenses & Permits	43,246.18
775.4 • Membership Dues	40.00
775.6 • Franchise Fees	3,382.73
775 • Miscellaneous Expenses - Other	1,800.03
<b>Total 775 • Miscellaneous Expenses</b>	<b>255,558.20</b>
<b>401 • Operating Expenses - Other</b>	<b>314.41</b>
<b>Total 401 • Operating Expenses</b>	<b>2,261,703.28</b>
<b>408 • Taxes Other than Income</b>	
408.1 • Property Taxes	59,155.14
408.3 • Franchise & Excise	58,000.00
408.12 • Payroll Taxes	49,702.65
<b>Total 408 • Taxes Other than Income</b>	<b>166,857.79</b>
<b>426 • Misc. Nonutility Expenses</b>	
426.91 • Lodging	155.07
426.9 • Meals and Entertainment	6,236.67



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02/12/19

Accrual Basis

**Tennessee Wastewater Systems, Inc.**

**Profit & Loss**

January through December 2018

	Jan - Dec 18
426.1 • Dues and Subscriptions	2,580.33
426.2 • Bank & NSF Fees	8,286.72
426.3 • Miscellaneous	7,246.61
426.7 • Construction Expense	1,200.00
426 • Misc. Nonutility Expenses - Other	362.59
<b>Total 426 • Misc. Nonutility Expenses</b>	<b>26,067.99</b>
427 • Interest Expense	
427.2 • Loan Interest	10,451.36
<b>Total 427 • Interest Expense</b>	<b>10,451.36</b>
<b>Total Expense</b>	<b>2,465,080.42</b>
<b>Net Ordinary Income</b>	<b>-172,466.18</b>
<b>Other Income/Expense</b>	
Other Income	
421.6 • Misc. Income	4,620.00
<b>Total Other Income</b>	<b>4,620.00</b>
<b>Net Other Income</b>	<b>4,620.00</b>
<b>Net Income</b>	<b>-167,846.18</b>

3:27 PM  
02/12/19

**Tennessee Wastewater Systems, Inc.**  
**Statement of Cash Flows**  
January through December 2018

	Jan - Dec 18
<b>OPERATING ACTIVITIES</b>	
Net Income	-167,846.18
Adjustments to reconcile Net Income to net cash provided by operations:	
141 - Customer A/R	-32,222.25
141 - Customer A/R:141.1 - Sewer Service	87,189.49
141 - Customer A/R:141.1 - Sewer Service:141.12 - East TN	163,254.38
141 - Customer A/R:143 - Bad Debt Reserve	-244,860.97
99.99 - Customer Count Offset	37,144.00
99.99 - Customer Count Offset:99.01 - Customer Count - Rate Class 1	-22,455.00
99.99 - Customer Count Offset:99.02 - Customer Count - Rate Class 2	-424.00
99.99 - Customer Count Offset:99.03 - Customer Count - Rate Class 5	-804.00
99.99 - Customer Count Offset:99.04 - Customer Count - Rate Class 6	-1,894.00
99.99 - Customer Count Offset:99.05 - Customer Count - Rate Class 9	-2,398.00
99.99 - Customer Count Offset:99.06 - Customer Count - Comm Cabin	-8,363.00
99.99 - Customer Count Offset:99.07 - Customer Count - Comm w/ Food	-294.00
99.99 - Customer Count Offset:99.08 - Customer Count - Comm Nonfood	-512.00
151.00 - Plant Material & Supplies	29,990.13
174 - Misc. Current and Accrued Asset:174.2 - Construction Pass-Maple Green	15,884.51
174 - Misc. Current and Accrued Asset:174.5 - UMS Undeposited Funds	0.23
174 - Misc. Current and Accrued Asset:174.6 - Prepaid Expenses	5,546.41
231 - Accounts Payable	-32,268.23
236.12 - Tax from CIAC	3,826.00
2110 - Direct Deposit Liabilities	0.01
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.6 - Affac Payable	99.72
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.5 - Workers Comp Payable	-352.41
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.1 - SUI	-30.03
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.2 - Payroll Taxes Payable	550.58
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.3 - FUTA	-7.91
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.4 - Simple IRA Payable	296.08
242 - Intercompany Liabilities:242.1 - Intercompany-Adenus Group	248,857.41
242 - Intercompany Liabilities:242.5 - Intercompany-Adenus Operations	74,304.16
242 - Intercompany Liabilities:242.6 - Adenus Technologies	-499.25
242 - Intercompany Liabilities:242.9 - Intercompany Cash	-20,000.00
<b>Net cash provided by Operating Activities</b>	<b>131,511.88</b>
<b>INVESTING ACTIVITIES</b>	
105.0 - Construction In Process	71,237.47
105.0 - Construction In Process:105.1 - Smoky Village	-14,167.34
105.0 - Construction In Process:105.2 - Maple Green	-65,365.24
105.0 - Construction In Process:105.3 - Cedar Hill	-135,112.55
101 - Utility Plant In Service:353 - Land	-59,327.89
101 - Utility Plant In Service:390 - Office Furniture & Misc. Equip	-2,578.63
101 - Utility Plant In Service:391 - Transportation Equipment	-57,770.49
108 - Accum. Deprec.-Utility Plant	650,744.37
108.1 - Accum. Deprec.- Equip	210,532.08
108.2 - Accum. Deprec.Cap. - Buildings	742.68
108.3 - Accum. Deprec.Cap. - Force Main	1,866.93
<b>Net cash provided by Investing Activities</b>	<b>600,801.39</b>
<b>FINANCING ACTIVITIES</b>	
232 - Notes Payable:232.3 - Wilson B&T (2) 2016 Chevy Truck	-27,309.52
232 - Notes Payable:232.4 - Wilson B&T - (2) 2014 F250	-13,705.95
232 - Notes Payable:232.5 - James A Lyon - Dyer's Hollow	-9,646.88
232 - Notes Payable:232.6 - First Bank - Truck	-8,996.14
232 - Notes Payable:232.7 - First Bank - Mini X	-18,923.88
232 - Notes Payable:232.8 - First Bank - Truck - ETN	-9,720.95
232 - Notes Payable:232.9 - Wilson B&T - (2) Skid Steers	-24,161.68
232 - Notes Payable:232.10 - Wilson B&T - ETN Truck	-9,686.71
232 - Notes Payable:232.11 WB&T - Truck	33,591.42
232 - Notes Payable:232.12 - FB Environmental Loan - RR	193,148.79
265 - Misc. Operating Reserves:265.2 - Sewer Sys/Comp Repl - Post 2006	273,685.33
265 - Misc. Operating Reserves:265.4 - Eudally Reserve	-84,084.88
271 - Cont. in Aid of Construction:271.1 - CIAC - Williamson County	777,600.00
271 - Cont. in Aid of Construction:271.5 - CIAC -ETN Capital	14,420.00

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**Tennessee Wastewater Systems, Inc.**  
**Statement of Cash Flows**  
January through December 2018

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	<u>Jan - Dec 18</u>
272 - Accum. Amort. on CIAC	<u>-739,356.18</u>
Net cash provided by Financing Activities	<u>366,872.77</u>
Net cash Increase for period	<u>1,099,186.04</u>
Cash at beginning of period	<u>176,591.69</u>
Cash at end of period	<u><u>1,275,777.73</u></u>

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**Tennessee Wastewater Systems, Inc.**  
**Account Listing**  
**February 12, 2019**

Account	Acct. #
131 - Cash	131
131 - Cash:131.1 - AmSouth - CD	131.1
131 - Cash:131.5 - Pinnacle CIAC (010294705)	131.5
131 - Cash:131.7 - Pinnacle Checking	131.7
131 - Cash:131.14 - FirstBank - Checking	131.14
131 - Cash:131.15 - FirstBank - Rider Depository	131.15
131 - Cash:131.16 - FirstBank - CIAC	131.16
Accounts Receivable	
141 - Customer A/R	141
141 - Customer A/R:141.1 - Sewer Service	141.1
141 - Customer A/R:141.1 - Sewer Service:141.12 - East TN	141.12
141 - Customer A/R:143 - Bad Debt Reserve	143
Cost Variance	
Inventory Asset	
Allowance for Bad Debt	
99.99 - Customer Count Offset	99.99
99.99 - Customer Count Offset:99.01 - Customer Count - Rate Class 1	99.01
99.99 - Customer Count Offset:99.02 - Customer Count - Rate Class 2	99.02
99.99 - Customer Count Offset:99.03 - Customer Count - Rate Class 5	99.03
99.99 - Customer Count Offset:99.04 - Customer Count - Rate Class 6	99.04
99.99 - Customer Count Offset:99.05 - Customer Count - Rate Class 9	99.05
99.99 - Customer Count Offset:99.06 - Customer Count - Comm Cabin	99.06
99.99 - Customer Count Offset:99.07 - Customer Count - Comm w/ Food	99.07
99.99 - Customer Count Offset:99.08 - Customer Count - Comm Nonfood	99.08
151.00 - Plant Material & Supplies	151.00
133 - Deposit - Williamson County	133
1499 - Undeposited Funds	1499
174 - Misc. Current and Accrued Asset	174
174 - Misc. Current and Accrued Asset:174.2 - Construction Pass-Maple Green	174.2
174 - Misc. Current and Accrued Asset:174.5 - UMS Undeposited Funds	174.5
174 - Misc. Current and Accrued Asset:174.6 - Prepaid Expenses	174.6
Capital Equipment	
105.0 - Construction In Process	105.0
105.0 - Construction In Process:105.1 - Smoky Village	105.1
105.0 - Construction In Process:105.2 - Maple Green	105.2
105.0 - Construction In Process:105.3 - Cedar Hill	105.3
101 - Utility Plant In Service	101
101 - Utility Plant In Service:354 - Structures & Improv - Capital	354
101 - Utility Plant In Service:360.5 - Sewer Force Main - Capital	360.5
101 - Utility Plant In Service:353.5 - Land - Capital Asset	353.5
101 - Utility Plant In Service:380.5 - Treatment and Disposal- Capital	380.5
101 - Utility Plant In Service:353 - Land	353
101 - Utility Plant In Service:360 - Collection Sewers-Force	360
101 - Utility Plant In Service:361 - Collection Sewers-Gravity	361
101 - Utility Plant In Service:380 - Treatment and Disposal Equip	380
101 - Utility Plant In Service:390 - Office Furniture & Misc. Equip	390
101 - Utility Plant In Service:391 - Transportation Equipment	391
108 - Accum. Deprec.-Utility Plant	108
108.1 - Accum. Deprec.- Equip	108.1
108.2 - Accum. Deprec.Cap. - Buildings	108.2
108.3 - Accum. Deprec.Cap. - Force Main	108.3
108.4 - Accum. Deprec.Cap. - Treatment	108.4
175 - Security Deposits Paid	175
Deferred Tax Benefits	
231 - Accounts Payable	231
Shipping Accrual	
Accrued Current Taxes Payable	
236.12 - Tax from CIAC	236.12
2110 - Direct Deposit Liabilities	2110
241 - Misc. Current & Accrued Liab.	241
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities	241.1
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.9 - OH Child Support	241.9
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.6 - Affac Payable	241.1.6
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.5 - Workers Comp Payable	241.1.5
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.1 - SUI	241.1.1
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.2 - Payroll Taxes Payable	241.1.2
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.3 - FUTA	241.1.3
241 - Misc. Current & Accrued Liab.:241.1 - Payroll Liabilities:241.1.4 - Simple IRA Payable	241.1.4

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**Tennessee Wastewater Systems, Inc.**  
**Account Listing**  
**February 12, 2019**

Account	Acct. #
241 · Misc. Current & Accrued Liab.:241.7 · Accrued Purchases	241.7
242 · Intercompany Liabilities	242
242 · Intercompany Liabilities:242.1 · Intercompany-Adenus Group	242.1
242 · Intercompany Liabilities:242.10 · Intercompany-ALWW	242.10
242 · Intercompany Liabilities:242.5 · Intercompany-Adenus Operations	242.5
242 · Intercompany Liabilities:242.8 · Adenus Technologies	242.8
242 · Intercompany Liabilities:242.7 · Intercompany-Commonwealth	242.7
242 · Intercompany Liabilities:242.9 · Intercompany Cash	242.9
232 · Notes Payable	232
232 · Notes Payable:232.3 · Wilson B&T (2) 2016 Chevy Truck	232.3
232 · Notes Payable:232.4 · Wilson B&T - (2) 2014 F250	232.4
232 · Notes Payable:232.5 · James A Lyon - Dyer's Hollow	232.5
232 · Notes Payable:232.6 · First Bank - Truck	232.6
232 · Notes Payable:232.7 · First Bank - Mini X	232.7
232 · Notes Payable:232.8 · First Bank - Truck - ETN	232.8
232 · Notes Payable:232.9 · Wilson B&T - (2) Skid Steers	232.9
232 · Notes Payable:232.10 · Wilson B&T - ETN Truck	232.10
232 · Notes Payable:232.11 WB&T - Truck	
232 · Notes Payable:232.12 · FB Environmental Loan - RR	232.12
265 · Misc. Operating Reserves	265
265 · Misc. Operating Reserves:265.1 · Inspection Costs	265.1
265 · Misc. Operating Reserves:265.2 · Sewer Sys/Comp Repl - Post 2008	265.2
265 · Misc. Operating Reserves:265.4 · Eudaily Reserve	265.4
215 · Retained Earnings	215
271 · Cont. In Aid of Construction	271
271 · Cont. In Aid of Construction:271.1 · CIAC - Williamson County	271.1
271 · Cont. In Aid of Construction:271.5 · CIAC -ETN Capital	271.5
272 · Accum. Amort. on CIAC	272
Shipping Income	
Sales Retail	
Discount Income	
400 · Operating Revenues	400
400 · Operating Revenues:521 · Flat Rate Revenues	521
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer	521.1
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.1 · Resid...	521.1.1
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.2 · Resid...	521.1.2
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.3 · Resid...	521.1.3
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.4 · Resid...	521.1.4
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.5 · Resid...	521.1.5
400 · Operating Revenues:521 · Flat Rate Revenues:521.2 · Commercial Sewer	521.2
400 · Operating Revenues:521 · Flat Rate Revenues:521.2 · Commercial Sewer:521.2.1 · Commercial ...	521.2.1
400 · Operating Revenues:521 · Flat Rate Revenues:521.2 · Commercial Sewer:521.2.2 · Commercial ...	521.2.2
400 · Operating Revenues:521 · Flat Rate Revenues:521.2 · Commercial Sewer:521.2.3 · Commercial ...	521.2.3
400 · Operating Revenues:522 · Measured Revenues	522
400 · Operating Revenues:522 · Measured Revenues:522.1 · Residential	522.1
400 · Operating Revenues:536 · Other Wastewater Revenues	536
400 · Operating Revenues:536 · Other Wastewater Revenues:536.1 · Sewer Access Fees	536.1
400 · Operating Revenues:536 · Other Wastewater Revenues:536.3 · Operations & Maintenance	536.3
400 · Operating Revenues:536 · Other Wastewater Revenues:536.4 · Billing & Collections	536.4
400 · Operating Revenues:536 · Other Wastewater Revenues:536.5 · Bonding	536.5
400 · Operating Revenues:536 · Other Wastewater Revenues:536.5 · Bonding:536.5.1 · Bonding - Sta...	536.5.1
400 · Operating Revenues:536 · Other Wastewater Revenues:536.5 · Bonding:536.5.2 · Bonding - Goo...	536.5.2
400 · Operating Revenues:536 · Other Wastewater Revenues:536.5 · Bonding:536.5.3 · Bonding - Mil...	536.5.3
400 · Operating Revenues:536 · Other Wastewater Revenues:536.6 · Franchise Income	536.6
400 · Operating Revenues:536 · Other Wastewater Revenues:536.7 · Bloxide	536.7
400 · Operating Revenues:536 · Other Wastewater Revenues:536.9 · Penalty Fees	536.9
400 · Operating Revenues:536 · Other Wastewater Revenues:536.10 · Disconnect/Reconnect Charges	536.10
400 · Operating Revenues:536 · Other Wastewater Revenues:536.12 · Legal Expense Rate Rider	536.12
400 · Operating Revenues:536 · Other Wastewater Revenues:536.13 · Environmental Repairs Rider	536.13
419 · Interest Earned	419
421 · Nonutility Income	421
421 · Nonutility Income:421.2 · Gain/Loss on Sale of Assets	421.2
421 · Nonutility Income:421.3 · Utility Fee	421.3
421 · Nonutility Income:421.4 · Professional Services	421.4
421 · Nonutility Income:421.5 · Developer Income	421.5
421 · Nonutility Income:421.7 · Construction Income	421.7
Inventory Adjustment	
50000 · Cost of Goods Sold	50000

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**Tennessee Wastewater Systems, Inc.**  
**Account Listing**  
**February 12, 2019**

Account	Accnt. #
Non-Inventory	
Overhead	
Scrapped Inventory	
Shipping Expense	
Labor	
Internal Use	
Service	
Discount Expense	
401 · Operating Expenses	401
401 · Operating Expenses:701.8 · Salary & Wages - Construction	701.8
401 · Operating Expenses:701 · Salaries and Wages - Employees	701
401 · Operating Expenses:703 · Salaries and Wages - Officers	703
401 · Operating Expenses:704 · Employee Benefits	704
401 · Operating Expenses:704 · Employee Benefits:704.2 · Life Insurance	704.2
401 · Operating Expenses:704 · Employee Benefits:704.1 · Workers Compensation	704.1
401 · Operating Expenses:705 · Simple IRA	705
401 · Operating Expenses:710 · Purchased Wastewater Treatment	710
401 · Operating Expenses:715 · Purchased Power	715
401 · Operating Expenses:718 · Telemetry Monitoring	718
401 · Operating Expenses:718 · Bioxide	718
401 · Operating Expenses:720 · Materials and Supplies	720
401 · Operating Expenses:731 · Contractual Svc - Professional	731
401 · Operating Expenses:735 · Contractual Svc - Testing	735
401 · Operating Expenses:736 · Contractual Services	736
401 · Operating Expenses:736 · Contractual Services:736.01 · Sign-up Costs	736.01
401 · Operating Expenses:736 · Contractual Services:736.02 · Contract Maintenance	736.02
401 · Operating Expenses:736 · Contractual Services:736.03 · Contractual Svc	736.03
401 · Operating Expenses:736 · Contractual Services:736.04 · Subcontract Work	736.04
401 · Operating Expenses:736 · Contractual Services:736.05 · Access Fees	736.05
401 · Operating Expenses:736 · Contractual Services:736.08 · Lawn Mowing	736.08
401 · Operating Expenses:736 · Contractual Services:736.10 · One-Call Expenses	736.10
401 · Operating Expenses:736 · Contractual Services:736.11 · Contractual Profit Sharing	736.11
401 · Operating Expenses:736 · Contractual Services:736.12 · AUG - MGMT Fees	736.12
401 · Operating Expenses:736 · Contractual Services:736.13 · IT Expenses	736.13
401 · Operating Expenses:736 · Contractual Services:736.9 · Adenus Group - MGMT Fees	736.9
401 · Operating Expenses:740 · Rent	740
401 · Operating Expenses:750 · Transportation Expense	750
401 · Operating Expenses:750 · Transportation Expense:750.3 · Registration Renewal	750.3
401 · Operating Expenses:750 · Transportation Expense:750.1 · Fuel	750.1
401 · Operating Expenses:750 · Transportation Expense:750.2 · Vehicle Maintenance	750.2
401 · Operating Expenses:755 · Insurance	755
401 · Operating Expenses:755 · Insurance:755.10 · Dental Insurance	755.10
401 · Operating Expenses:755 · Insurance:755.8 · Auto Insurance	755.8
401 · Operating Expenses:755 · Insurance:755.9 · Health Insurance	755.9
401 · Operating Expenses:765 · Regulatory Commission Exp.	765
401 · Operating Expenses:765 · Regulatory Commission Exp.:765.1 · Rate Case Work	765.1
401 · Operating Expenses:765 · Regulatory Commission Exp.:765.2 · Filing Fee	765.2
401 · Operating Expenses:765 · Regulatory Commission Exp.:765.3 · Inspection Fee	765.3
401 · Operating Expenses:770 · Bad Debt	770
401 · Operating Expenses:775 · Miscellaneous Expenses	775
401 · Operating Expenses:775 · Miscellaneous Expenses:DVF Misc Account	
401 · Operating Expenses:775 · Miscellaneous Expenses:775.21 · Website and Internet Hosting	775.21
401 · Operating Expenses:775 · Miscellaneous Expenses:775.27 · Equipment Maintenance	775.27
401 · Operating Expenses:775 · Miscellaneous Expenses:775.26 · Equipment Rental	775.26
401 · Operating Expenses:775 · Miscellaneous Expenses:775.25 · Small Equipment Purchase	775.25
401 · Operating Expenses:775 · Miscellaneous Expenses:Lien Filing Fee	
401 · Operating Expenses:775 · Miscellaneous Expenses:775.01 · Advertising Expense	775.01
401 · Operating Expenses:775 · Miscellaneous Expenses:775.1 · Telephone	775.1
401 · Operating Expenses:775 · Miscellaneous Expenses:775.10 · Office Supplies	775.10
401 · Operating Expenses:775 · Miscellaneous Expenses:775.11 · Letter of Credit - Fees	775.11
401 · Operating Expenses:775 · Miscellaneous Expenses:775.11 · Letter of Credit - Fees:775.111 ...	775.111
401 · Operating Expenses:775 · Miscellaneous Expenses:775.11 · Letter of Credit - Fees:775.112 ...	775.112
401 · Operating Expenses:775 · Miscellaneous Expenses:775.11 · Letter of Credit - Fees:775.113 ...	775.113
401 · Operating Expenses:775 · Miscellaneous Expenses:775.12 · Depreciation Expense	775.12
401 · Operating Expenses:775 · Miscellaneous Expenses:775.13 · Easement Fees	775.13
401 · Operating Expenses:775 · Miscellaneous Expenses:775.2 · Postage	775.2
401 · Operating Expenses:775 · Miscellaneous Expenses:775.20 · Software Licenses	775.20
401 · Operating Expenses:775 · Miscellaneous Expenses:775.23 · Maintenance Agreements	775.23

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## Tennessee Wastewater Systems, Inc.

## Account Listing

February 12, 2019

Account	Acct. #
401 • Operating Expenses:775 • Miscellaneous Expenses:775.3 • Licenses & Permits	775.3
401 • Operating Expenses:775 • Miscellaneous Expenses:775.4 • Membership Dues	775.4
401 • Operating Expenses:775 • Miscellaneous Expenses:775.5 • Deed Registration	775.5
401 • Operating Expenses:775 • Miscellaneous Expenses:775.6 • Franchise Fees	775.6
401 • Operating Expenses:775 • Miscellaneous Expenses:775.7 • Public Notice Costs	775.7
401 • Operating Expenses:775 • Miscellaneous Expenses:775.8 • Interest on Customer Deposits	775.8
401 • Operating Expenses:775 • Miscellaneous Expenses:775.9 • Billing Costs	775.9
408 • Taxes Other than Income	408
408 • Taxes Other than Income:408.1 • Property Taxes	408.1
408 • Taxes Other than Income:408.3 • Franchise & Exclse	408.3
408 • Taxes Other than Income:408.4 • Labor & Workforce Dev.	408.4
408 • Taxes Other than Income:408.5 • Personal Privilege Tax	408.5
408 • Taxes Other than Income:408.6 • Public Utility	408.6
408 • Taxes Other than Income:408.7 • Tax Penalties	408.7
408 • Taxes Other than Income:408.12 • Payroll Taxes	408.12
409 • Income Tax	409
426 • Misc. Nonutility Expenses	426
426 • Misc. Nonutility Expenses:426.91 • Lodging	426.91
426 • Misc. Nonutility Expenses:426.9 • Meals and Entertainment	426.9
426 • Misc. Nonutility Expenses:426.1 • Dues and Subscriptions	426.1
426 • Misc. Nonutility Expenses:426.2 • Bank & NSF Fees	426.2
426 • Misc. Nonutility Expenses:426.3 • Miscellaneous	426.3
426 • Misc. Nonutility Expenses:426.4 • Parking	426.4
426 • Misc. Nonutility Expenses:426.5 • Developer Income Reimbursement	426.5
426 • Misc. Nonutility Expenses:426.7 • Construction Expense	426.7
427 • Interest Expense	427
427 • Interest Expense:427.1 • Interest on Debt to Associated	427.1
427 • Interest Expense:427.2 • Loan Interest	427.2
427 • Interest Expense:427.5 • Sewer Deposit Interest	427.5
66900 • Reconciliation Discrepancies	66900
421.6 • Misc. Income	421.6
90100 • Purchase Orders	90100
90200 • Sales Orders	90200

## TENNESSEE WASTEWATER SYSTEMS, INC.

Lead Schedule by G/L Asset Account  
For the 1 Month Ended 01/01/19

02/12/19

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Asset Description	Date Acquired	Cost	Sold?	Tax System	Method	Life	Con- vention	Bus %	Sec. 179 Deduction	Spec. Dep. Allowance	Depreciable Basis	Prior Depreciation	Current Depreciation	Accumulated Depreciation
101 Utility Plant in Service														
2018 CHEVROLET SILVERADO :03/12/18		42,290.49	N	MACRS	ST LINE	05/00	HY	100.00	0.00	0.00	42,290.49	4,229.05	23.17	4,252.22
Subtotal for 101		42,290.49							0.00	0.00	42,290.49	4,229.05	23.17	4,252.22
353.5 Utility Plant in Service:Land - Capital Asset														
Tall Oaks 3.63 Acres	06/01/11	2,498.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	2,498.00	0.00	0.00	0.00
Jackson Bend	08/16/13	860.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	860.00	0.00	0.00	0.00
Dyer's Hollow Drip Area 13.99 A	12/22/14	38,472.50	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	38,472.50	0.00	0.00	0.00
Subtotal for 353.5		41,830.50							0.00	0.00	41,830.50	0.00	0.00	0.00
353 Utility Plant in Service:Land														
Abington Ridge 7.61 Acres	12/31/04	36,700.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	36,700.00	0.00	0.00	0.00
Belle Vista 12.98 Acres	11/01/05	62,597.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	62,597.00	0.00	0.00	0.00
Boswell Road 10.33 Acres	11/01/06	41,600.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	41,600.00	0.00	0.00	0.00
Cedar Hill 80 Acres	01/05/07	320,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	320,000.00	0.00	0.00	0.00
East Stewart 8.33 Acres	12/31/01	20,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	20,000.00	0.00	0.00	0.00
East Stewart 11.47 Acres	03/22/02	105,880.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	105,880.00	0.00	0.00	0.00
Fanning Bend 10.55 Acres	12/01/05	75,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	75,000.00	0.00	0.00	0.00
Guffee Farms Facility 7.08 Acres	12/11/07	34,144.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	34,144.00	0.00	0.00	0.00
Laurel Cove 104.19 Acres	06/01/08	502,464.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	502,464.00	0.00	0.00	0.00
Laurel Cove 26.28 Acres	06/01/08	126,737.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	126,737.00	0.00	0.00	0.00
Maple Green 80.81 Acres	12/31/02	106,900.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	106,900.00	0.00	0.00	0.00
McLamore Farms 6.57 Acres Pri	12/31/03	31,684.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	31,684.00	0.00	0.00	0.00
Oakwood 12.05 Acres	01/01/00	90,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	90,000.00	0.00	0.00	0.00
Paris Landing 146.3 Acres	09/01/05	140,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	140,000.00	0.00	0.00	0.00
Pebblebrook	12/31/03	12,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	12,000.00	0.00	0.00	0.00
River's Edge 4.68 Acres	12/01/08	18,700.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	18,700.00	0.00	0.00	0.00
Saddle Springs 14.52 acres	12/31/03	70,024.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	70,024.00	0.00	0.00	0.00
Sunnydale 4.33 Acres	08/01/05	15,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	15,000.00	0.00	0.00	0.00
Watkins Creek 18.26 Acres	12/31/02	88,060.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	88,060.00	0.00	0.00	0.00
Wornack's Creekview	10/31/06	151,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	151,000.00	0.00	0.00	0.00
Fanning Bend .82 Acres	12/01/05	6,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	6,000.00	0.00	0.00	0.00
Fanning Bend 1.52 Acres	12/01/05	10,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	10,000.00	0.00	0.00	0.00
Fanning Bend 1.25 Acres	12/01/05	9,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	9,000.00	0.00	0.00	0.00
Boswell Rd 5.11 Acres	11/01/06	15,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	15,000.00	0.00	0.00	0.00



# Lead Schedule by G/L Asset Account For the 1 Month Ended 01/01/19

Asset Description	Date Acquired	Cost	Sold?	Tax System	Method	Life	Con- vention	Bus %	Sec. 179 Deduction	Spec. Depr. Allowance	Depreciable Basis	Prior Depreciation	Current Depreciation	Accumulated Depreciation
353 Utility Plant in Service:Land														
Boswell Rd 5.17 Acres	11/01/06	15,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	15,000.00	0.00	0.00	0.00
Boswell Rd 5.10 Acres	11/01/06	15,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	15,000.00	0.00	0.00	0.00
Boswell Rd 5.84 Acres	11/01/06	18,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	18,000.00	0.00	0.00	0.00
Boswell Rd 7.08 Acres	11/01/06	21,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	21,000.00	0.00	0.00	0.00
Boswell Rd 8.87 Acres	11/01/06	27,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	27,000.00	0.00	0.00	0.00
Boswell Rd 7.14 Acres	11/01/06	21,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	21,000.00	0.00	0.00	0.00
McClemore Farms 2.79 Acres Se	12/31/03	13,455.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	13,455.00	0.00	0.00	0.00
Wyndsong Phase II 5.52 Acres	12/04/07	0.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Abington Ridge 1.84 Acres	12/31/04	7,909.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	7,909.00	0.00	0.00	0.00
Watkins Creek 6.44 Acres	12/31/02	31,057.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	31,057.00	0.00	0.00	0.00
Windsor Pointe 5.2 Acres	01/01/99	0.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Harbor Pointe 6.62 Acres	01/01/01	0.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Griffitt's Mill 16.198 Acres	01/01/13	20,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	20,000.00	0.00	0.00	0.00
Griffitt's Mill Treatment .258 Acre	01/01/13	1,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	1,000.00	0.00	0.00	0.00
Clarkrange - 8.89 Acres	01/01/13	10,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	10,000.00	0.00	0.00	0.00
Highlands 3.97 acres	01/01/13	5,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	5,000.00	0.00	0.00	0.00
Bluff @ Bradbury 3.22 acres	01/01/13	20,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	20,000.00	0.00	0.00	0.00
Guffee Drip Field 10.51 Acres	12/11/07	50,685.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	50,685.00	0.00	0.00	0.00
Guffee Drip(2) 2.06 Acres	12/11/07	9,935.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	9,935.00	0.00	0.00	0.00
Guffee Pond 11.21 Acres	12/11/07	54,061.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	54,061.00	0.00	0.00	0.00
Guffee Drip (3) 6.47 Acres	12/11/07	31,202.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	31,202.00	0.00	0.00	0.00
Chardonray Pond .88 Acres	09/15/08	4,244.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	4,244.00	0.00	0.00	0.00
Chardonray Drip 6.61 Acres	09/15/08	31,877.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	31,877.00	0.00	0.00	0.00
Chardonray Drip (2) 3.94 Acres	09/15/08	19,001.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	19,001.00	0.00	0.00	0.00
Slags Leap 17.77 Acres	12/31/07	85,697.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	85,697.00	0.00	0.00	0.00
Cross Plains 60 Acres	01/15/09	0.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	0.00	0.00	0.00	0.00
East Stewart 5.6 Acres	03/30/04	0.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Cornerstone @ Mitchell Creek 12	01/01/14	0.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Grove Drip Field - .81 acres	01/01/15	1,800.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	1,800.00	0.00	0.00	0.00
Grove Drip Field 9.49 Acres	01/01/15	22,020.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	22,020.00	0.00	0.00	0.00
Creekview Estates 3.07 Acres	01/01/15	0.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Clovercroft Farms Treatment 6.5	03/18/16	19,710.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	19,710.00	0.00	0.00	0.00

# Lead Schedule by G/L Asset Account For the 1 Month Ended 01/01/19

Asset Description	Date Acquired	Cost	Sold?	Tax System	Method	Life	Con- vention	Bus %	Sec. 179 Deduction	Spec. Depr. Allowance	Depreciable Basis	Prior Depreciation	Current Depreciation	Accumulated Depreciation
353 Utility Plant in Service: Land														
Clovercroft Farms Drip 9.60 Acre	03/18/16	28,800.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	28,800.00	0.00	0.00	0.00
Clovercroft Preserve 13.334 acr	08/23/16	40,000.00	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	40,000.00	0.00	0.00	0.00
Smoky Village Land 2.0031 Acre	11/30/18	59,327.89	N	MACRS	LAND	00/00	None	100.00	0.00	0.00	59,327.89	0.00	0.00	0.00
Subtotal for 353		2,772,270.89							0.00	0.00	2,772,270.89	0.00	0.00	0.00
354 Utility Plant In Service: Structures & Improv - Cap														
Eudailey Barn	08/01/17	18,566.95	N	MACRS	SL WATER	25/00	H/Y	100.00	0.00	0.00	18,566.95	1,114.02	2.03	1,116.05
Subtotal for 354		18,566.95							0.00	0.00	18,566.95	1,114.02	2.03	1,116.05
360.5 Utility Plant in Service: Sewer Force Main - Capita														
Eudailey to McDaniel Farms Forc	08/01/17	77,006.43	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	77,006.43	2,310.19	4.22	2,314.41
Paris Landing - Extension to Blue	10/01/17	16,340.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	16,340.00	490.20	0.90	491.10
Subtotal for 360.5		93,346.43							0.00	0.00	93,346.43	2,800.39	5.12	2,805.51
360 Utility Plant in Service: Collection Sewers-Force														
Cedar Hill	12/31/08	210,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	210,000.00	44,100.00	11.51	44,111.51
Subtotal for 360		210,000.00							0.00	0.00	210,000.00	44,100.00	11.51	44,111.51
361 Utility Plant in Service: Collection Sewers-Gravity														
Abington Ridge	02/20/07	13,500.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	13,500.00	3,105.00	0.74	3,105.74
Abington Ridge	01/01/04	60,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	60,000.00	17,400.00	3.29	17,403.29
Belle Vista	11/01/05	15,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	15,000.00	4,050.00	0.82	4,050.82
Belle Vista Phase II	12/21/06	12,500.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	12,500.00	3,125.00	0.68	3,125.68
Black Bear Ridge	01/01/03	39,300.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	39,300.00	12,183.00	2.15	12,185.15
Boswell Road	11/01/06	131,300.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	131,300.00	32,825.00	7.19	32,832.19
Brigadoon	07/01/08	21,150.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	21,150.00	4,441.50	1.16	4,442.66
Cedar Hill	01/15/07	30,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	30,000.00	6,900.00	1.64	6,901.64
Cornerstone at Mitchell Creek	01/01/00	21,200.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	21,200.00	7,844.00	1.16	7,845.16
Eagle Crest Resorts	01/01/00	18,800.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	18,800.00	6,956.00	1.03	6,957.03
East Stewart	01/01/01	32,800.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	32,800.00	11,480.00	1.80	11,481.80
Elk Springs	06/27/06	50,800.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	50,800.00	12,700.00	2.78	12,702.78
Elk Springs	08/15/07	25,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	25,000.00	5,750.00	1.37	5,751.37
Falling Waters	01/01/03	13,600.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	13,600.00	4,216.00	0.75	4,216.75
Fanning Bend	12/01/05	145,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	145,000.00	39,150.00	7.95	39,157.95
German Creek	11/10/07	32,500.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	32,500.00	7,475.00	1.78	7,476.78
Grainger's Landing	05/16/06	39,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	39,000.00	9,750.00	2.14	9,752.14

Lead Schedule by G/L Asset Account  
For the 1 Month Ended 01/01/19

Asset Description	Date Acquired	Cost	Sold?	Tax System	Method	Life	Con- vention	Bus %	Sec. 179 Deduction	Spec. Depr. Allowance	Depreciable Basis	Prior Depreciation	Current Depreciation	Accumulated Depreciation
361 Utility Plant in Service: Collection Sewers-Gravity														
Guffee Farms	12/11/07	19,800.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	19,800.00	4,554.00	1.08	4,555.08
Harbor Point	01/01/01	30,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	30,000.00	10,500.00	1.64	10,501.64
Hidden Springs	01/01/00	17,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	17,000.00	6,290.00	0.93	6,290.93
Highlands	01/01/03	32,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	32,000.00	9,920.00	1.75	9,921.75
Horsehoe Bend	01/01/03	28,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	28,000.00	8,680.00	1.53	8,681.53
Jackson Bend	01/01/01	23,082.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	23,082.00	8,078.70	1.26	8,079.96
Keys Cove	08/01/05	6,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	6,000.00	1,620.00	0.33	1,620.33
Legacy Mountain East	01/25/06	65,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	65,000.00	16,250.00	3.56	16,253.56
Legacy Mountain East	01/25/07	30,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	30,000.00	6,900.00	1.64	6,901.64
Legacy Preserve	06/01/05	57,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	57,000.00	15,390.00	3.12	15,393.12
Maple Green	01/01/02	48,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	48,000.00	15,840.00	2.63	15,842.63
McLennore Farms	01/01/04	68,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	68,000.00	19,720.00	3.73	19,723.73
McLennore Farms Phase II	01/01/04	12,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	12,000.00	3,480.00	0.66	3,480.66
Norton Creek	10/01/08	84,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	84,000.00	17,640.00	4.60	17,644.60
Oakpoint Phase II	01/01/04	18,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	18,000.00	5,220.00	0.99	5,220.99
Oakwood	01/01/88	20,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	20,000.00	8,200.00	1.10	8,201.10
Paris Landing	09/01/05	221,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	221,000.00	59,670.00	12.11	59,682.11
Pebblebrook	01/01/02	31,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	31,000.00	10,230.00	1.70	10,231.70
Piney Bay	10/01/08	95,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	95,000.00	19,950.00	5.21	19,955.21
River's Edge	12/01/08	10,800.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	10,800.00	2,268.00	0.59	2,268.59
River Road Lagoon	01/01/97	15,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	15,000.00	6,450.00	0.82	6,450.82
Saddle Springs	01/01/02	50,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	50,000.00	16,500.00	2.74	16,502.74
Settler's Ridge	07/01/07	28,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	28,000.00	5,980.00	1.42	5,981.42
Smoky Cove	02/10/07	30,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	30,000.00	6,900.00	1.64	6,901.64
Smoky Village	03/01/06	19,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	19,000.00	4,750.00	1.04	4,751.04
Smoky Village	04/20/07	10,800.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	10,800.00	2,484.00	0.59	2,484.59
Southridge	01/01/98	70,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	70,000.00	28,700.00	3.84	28,703.84
Southridge Addition 1	01/01/99	42,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	42,000.00	16,380.00	2.30	16,382.30
Southridge Phase 5	01/01/04	22,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	22,000.00	6,360.00	1.21	6,361.21
Stags Leap	12/15/08	19,800.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	19,800.00	4,158.00	1.08	4,159.08
Starr Crest I	01/01/00	11,332.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	11,332.00	4,192.84	0.62	4,193.46
Starr Crest II	01/01/02	74,500.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	74,500.00	24,585.00	4.08	24,589.08

# Lead Schedule by G/L Asset Account For the 1 Month Ended 01/01/19

Asset Description	Date Acquired	Cost	Sold?	Tax System	Method	Life	Con- vention	Bus %	Sec. 179 Deduction	Spec. Depr. Allowance	Depreciable Basis	Prior Depreciation	Current Depreciation	Accumulated Depreciation
361 Utility Plant in Service: Collection Sewers-Gravity														
Sugar Loaf	03/01/08	18,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	18,000.00	3,780.00	0.99	3,780.99
Summitt View	05/03/07	19,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	19,000.00	4,370.00	1.04	4,371.04
Sunnydale	08/01/05	16,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	16,000.00	4,320.00	0.88	4,320.88
Swan Harbor	01/01/99	14,800.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	14,800.00	5,772.00	0.81	5,772.81
Tail Oaks	01/01/99	51,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	51,000.00	19,890.00	2.79	19,892.79
Townsend Town Square	01/01/00	20,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	20,000.00	7,400.00	1.10	7,401.10
Trillium Cove	04/03/07	10,600.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	10,600.00	2,438.00	0.58	2,438.58
Turner's Landing	04/01/05	108,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	108,000.00	29,160.00	5.92	29,165.92
Watkins Creek	01/01/01	28,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	28,000.00	9,800.00	1.53	9,801.53
Watkins Creek Phase III & IV	02/01/05	29,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	29,000.00	7,830.00	1.59	7,831.59
Windsor Pointe	01/01/99	25,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	25,000.00	9,750.00	1.37	9,751.37
Womack's Creekview	10/31/06	6,750.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	6,750.00	1,687.50	0.37	1,687.87
Wyndsong	12/04/07	18,000.00	N	MACRS	ST LINE	50/00	H/Y	100.00	0.00	0.00	18,000.00	4,140.00	0.99	4,140.99
Subtotal for 361		2,371,714.00							0.00	0.00	2,371,714.00	677,548.54	129.93	677,678.47
380 Utility Plant in Service: Treatment and Disposal Eq														
Abington Ridge	01/01/04	246,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	246,000.00	137,192.33	25.92	137,218.25
Belle Vista	11/01/05	329,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	329,000.00	170,826.94	34.67	170,861.61
Black Bear Ridge	01/01/03	108,700.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	108,700.00	64,801.93	11.45	64,813.38
Blue Water Bay	01/01/04	322,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	322,000.00	179,576.93	33.93	179,610.86
Boswell	11/01/06	281,900.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	281,900.00	135,528.87	29.70	135,558.57
Brigadoon	07/01/08	128,850.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	128,850.00	52,035.58	13.58	52,049.16
Brown Lee	01/01/04	43,500.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	43,500.00	24,259.64	4.58	24,264.22
Cedar Hill	01/05/07	300,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	300,000.00	132,692.29	31.61	132,723.90
Cornerstone at Mitchell's Creek	01/01/00	240,600.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	240,600.00	171,196.16	25.35	171,221.51
Eagle Crest Resort	01/01/00	208,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	208,000.00	148,000.00	21.92	148,021.92
East Stewart	01/01/01	215,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	215,000.00	144,711.53	22.66	144,734.19
Elk Springs	06/27/06	242,200.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	242,200.00	116,442.31	25.52	116,467.83
Elk Springs	08/15/07	250,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	250,000.00	110,576.92	26.34	110,603.26
Falling Waters	01/01/03	45,100.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	45,100.00	26,886.54	4.75	26,891.29
Fanning Bend	12/01/05	876,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	876,000.00	454,846.16	92.31	454,938.47
German Creek	11/10/07	267,500.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	267,500.00	118,317.29	28.19	118,345.48
Grainger Landing	05/16/06	286,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	286,000.00	137,500.00	30.14	137,530.14

### Lead Schedule by G/L Asset Account For the 1 Month Ended 01/01/19

Asset Description	Date Acquired	Cost	Sold?	Tax System	Method	Life	Con- vention	Bus %	Sec. 179 Deduction	Spec. Depr. Allowance	Depreciable Basis	Prior Depreciation	Current Depreciation	Accumulated Depreciation
380 Utility Plant in Service: Treatment and Disposal Eq														
Guffee Farms	12/11/07	1,837,700.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	1,837,700.00	812,828.85	193.65	813,022.50
Harbor Point	01/01/01	309,200.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	309,200.00	208,115.41	32.56	208,147.99
Hidden Springs Resort	01/01/00	162,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	162,000.00	115,288.24	17.07	115,286.31
Highland Cove	01/01/04	316,480.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	316,480.00	176,498.49	33.35	176,531.84
Highlands	01/01/03	107,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	107,000.00	63,788.46	11.28	63,799.74
Horseshoe Bend	01/01/03	88,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	88,000.00	52,461.54	9.27	52,470.81
Jackson Bend	01/01/01	204,800.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	204,800.00	137,846.14	21.58	137,867.72
Laurel Cove	06/01/08	3,180,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	3,180,000.00	1,284,230.78	335.09	1,284,565.87
Legacy Mountain	01/25/06	285,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	285,000.00	137,019.25	30.03	137,049.28
Legacy Mountain	01/25/07	280,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	280,000.00	123,846.15	29.50	123,875.65
Legacy Preserve	06/01/05	260,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	260,000.00	135,000.00	27.40	135,027.40
Maple Green	01/01/02	240,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	240,000.00	152,307.70	25.29	152,332.99
McLemore Farms	01/01/04	220,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	220,000.00	122,692.33	23.18	122,715.51
Norton Creek	10/01/08	476,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	476,000.00	192,230.75	50.16	192,280.91
Oakwood	01/01/98	50,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	50,000.00	39,423.09	5.27	39,428.36
Paris Landing	09/01/05	230,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	230,000.00	119,423.06	24.24	119,447.30
Pebbleshbrook	01/01/02	170,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	170,000.00	107,884.59	17.91	107,902.50
River's Edge	12/01/08	98,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	98,000.00	39,576.92	10.33	39,587.25
River Road Lagoon	01/01/97	185,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	185,000.00	152,980.77	19.49	153,000.26
Saddle Springs	01/01/02	276,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	276,000.00	175,153.85	29.08	175,182.93
Settler's Ridge	07/01/07	234,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	234,000.00	103,500.00	24.66	103,524.66
Smoky Cove	02/10/07	310,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	310,000.00	137,115.41	32.67	137,148.08
Smoky Village	03/01/06	81,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	81,000.00	38,942.30	8.54	38,950.84
Smoky Village	04/20/07	89,200.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	89,200.00	39,453.85	9.40	39,463.25
Starr Crest I	01/01/00	107,600.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	107,600.00	76,561.51	11.34	76,572.85
Starr Crest II	01/01/02	105,300.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	105,300.00	66,825.00	11.10	66,836.10
Sugar Loaf	03/01/08	162,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	162,000.00	65,423.08	17.07	65,440.15
Summitt View	05/03/07	156,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	156,000.00	69,000.00	16.44	69,016.44
Sunnydale	08/01/05	96,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	96,000.00	49,846.18	10.12	49,856.30
Swan Harbor	01/01/99	70,600.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	70,600.00	52,950.00	7.44	52,957.44
Tall Oaks	01/01/99	82,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	82,000.00	61,500.01	8.64	61,508.65
Timber Tops Rental Center	11/05/07	36,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	36,000.00	15,923.08	3.79	15,926.87

### Lead Schedule by G/L Asset Account For the 1 Month Ended 01/01/19

Asset Description	Date Acquired	Cost	Sold?	Tax System	Method	Life	Con- vention	Bus %	Sec. 179 Deduction	Spec. Depr. Allowance	Depreciable Basis	Prior Depreciation	Current Depreciation	Accumulated Depreciation
<b>380 Utility Plant in Service: Treatment and Disposal Eq</b>														
Townsend Town Square	01/01/00	120,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	120,000.00	85,394.61	12.64	85,397.25
Trillium	04/03/07	122,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	122,000.00	53,961.56	12.86	53,974.42
Turner's Landing	04/01/05	213,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	213,000.00	110,596.18	22.44	110,618.62
Watkins Creek	01/01/01	336,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	336,000.00	226,153.86	35.41	226,189.27
Windsor Pointe	01/01/99	150,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	150,000.00	112,499.99	15.81	112,515.80
Womack's Creekview	10/31/06	264,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	264,000.00	126,923.10	27.82	126,950.92
Wyndsong	12/04/07	162,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	162,000.00	71,653.85	17.07	71,670.92
Clovercroft Farms	03/18/16	498,000.00	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	498,000.00	47,884.62	52.48	47,937.10
Clovercroft Preserve	09/23/16	549,584.72	N	MACRS	ST LINE	26/00	H/Y	100.00	0.00	0.00	549,584.72	52,842.77	57.91	52,900.68
Subtotal for 380		17,309,794.72							0.00	0.00	17,309,794.72	8,338,909.75	1,824.02	8,340,733.77
<b>390 Utility Plant in Service: Office Furniture &amp; Misc.</b>														
Computer	07/25/06	1,025.60	N	MACRS	ST LINE	10/00	H/Y	100.00	0.00	0.00	1,025.60	1,025.60	0.00	1,025.60
Office Furniture	03/16/07	12,489.19	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	12,489.19	12,489.19	0.00	12,489.19
Kubota Mini Excavator	07/09/15	38,290.00	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	38,290.00	26,803.00	20.98	26,823.98
Kubota Mini Excavator	07/09/15	38,290.00	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	38,290.00	26,803.00	20.98	26,823.98
New Holland RB 450 Baler	10/22/15	19,138.37	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	19,138.37	13,396.86	10.49	13,407.35
John Deere 8 Ft. Bushhog	11/13/15	5,300.00	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	5,300.00	3,710.00	2.90	3,712.90
John Deere 5055 E Tractor	01/01/16	33,500.00	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	33,500.00	16,750.00	18.38	16,768.36
CANON PROGRAF IPF785 PLOT01/09/17	05/05/17	9,054.38	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	9,054.38	2,716.32	4.96	2,721.28
(2) Kubota Skid Steers	05/05/17	100,386.04	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	100,386.04	30,115.81	55.01	30,170.82
2018 Dell Laptop	12/31/18	808.43	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	808.43	80.84	0.44	81.28
Dell Latitude 5580	12/31/18	1,770.20	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	1,770.20	177.02	0.97	177.99
Subtotal for 390		260,052.21							0.00	0.00	260,052.21	134,067.64	135.09	134,202.73
<b>391 Utility Plant in Service: Transportation Equipment</b>														
2014 F250 Crew Cab VIN 60272	08/04/14	37,898.24	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	37,898.24	34,108.42	20.82	34,129.24
2014 Ford F250 White Crew Cab	08/04/14	37,898.23	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	37,898.23	34,108.41	20.82	34,129.23
2015 Chevy 2500 VIN 602433	05/19/15	34,122.33	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	34,122.33	23,885.63	18.70	23,904.33
16 Foot Trailer	06/02/15	6,393.00	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	6,393.00	4,475.10	3.50	4,478.60
16 Ft Trailer	06/02/15	6,393.00	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	6,393.00	4,475.10	3.50	4,478.60
25 Ft Gooseneck Trailer	07/02/15	5,948.95	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	5,948.95	4,164.27	3.26	4,167.53
2008 Chevy 1500	06/30/15	3,549.75	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	3,549.75	2,484.83	1.95	2,486.78
2008 Ford F250	06/30/15	2,308.42	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	2,308.42	1,615.89	1.26	1,617.15

# Lead Schedule by G/L Asset Account For the 1 Month Ended 01/01/19

Asset Description	Date Acquired	Cost	Sold?	Tax System	Method	Life	Con- vention	Bus %	Sec. 179 Deduction	Spec. Depr. Allowance	Depreciable Basis	Prior Depreciation	Current Depreciation	Accumulated Depreciation
391 Utility Plant in Service: Transportation Equipment														
2008 Chevy Silverado	06/30/15	3,873.20	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	3,873.20	2,711.24	2.12	2,713.36
2009 Chevy 1500	06/30/15	5,046.71	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	5,046.71	3,532.69	2.77	3,535.46
1999 International 470	06/04/15	0.00	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	0.00	0.00	0.00	0.00
2015 Chevy 2500 - ETN	10/14/15	37,556.48	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	37,556.48	26,289.54	20.58	26,310.12
2016 Chevy 2500 Utility Bed	08/22/16	42,889.89	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	42,889.89	21,444.95	23.50	21,468.45
2016 Chevy 2500	08/22/16	37,932.07	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	37,932.07	18,986.03	20.78	18,986.81
Trailer - 8K 20+5 OTW Ball Hitch,	08/08/17	8,078.25	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	8,078.25	2,423.48	4.43	2,427.91
Trailer - Mowing	03/20/17	1,584.13	N	MACRS	SL TRUCK	05/00	H/Y	100.00	0.00	0.00	1,584.13	475.24	0.87	476.11
Trailer - Dump	08/02/17	7,008.25	N	MACRS	SL TRUCK	05/00	H/Y	100.00	0.00	0.00	7,008.25	2,102.48	3.84	2,106.32
2017 Chevy Silverado (ETN)	10/18/17	43,007.88	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	43,007.88	12,902.37	23.57	12,925.94
RTV-X900WL-Kubota Utility Vehi	05/08/18	15,285.00	N	MACRS	ST LINE	05/00	H/Y	100.00	0.00	0.00	15,285.00	1,528.50	8.38	1,536.88
Subtotal for 391		336,773.78							0.00	0.00	336,773.78	201,694.17	184.65	201,878.82
Client Subtotal Before Sales		23,456,639.97							0.00	0.00	23,456,639.97	9,404,463.56	2,315.52	9,406,779.08
Less Assets Sold		0.00							0.00	0.00	0.00	0.00	0.00	0.00
Total at end of year		23,456,639.97							0.00	0.00	23,456,639.97	9,404,463.56	2,315.52	9,406,779.08

# Tennessee Wastewater Systems, Inc.

## Fixed Asset Listing

### February 12, 2019

Item	FAM Number	Purchase Date	Purchase Description	Account	Cost
(2) Kubota Skid Steers - 206	206	05/05/2017	(2) Kubota Skid Steers	101 - Utility Plant in Service:380 - Office Furniture & Misc. Equip	100,366.04
16 Foot Trailer - 183	183	06/02/2015	16 Foot Trailer	101 - Utility Plant in Service:391 - Transportation Equipment	6,393.00
1999 International 470 - 190	190	06/02/2015	16 Ft Trailer	101 - Utility Plant in Service:391 - Transportation Equipment	6,393.00
2006 Ford F250 - 187	187	06/04/2015	1999 International 470	101 - Utility Plant in Service:391 - Transportation Equipment	2,308.42
2008 Chevy 1500 - 186	186	06/30/2015	2006 Ford F250	101 - Utility Plant in Service:391 - Transportation Equipment	3,549.75
2008 Chevy Silverado - 188	188	06/30/2015	2008 Chevy 1500	101 - Utility Plant in Service:391 - Transportation Equipment	3,873.20
2009 Chevy 1500 - 189	189	06/30/2015	2008 Chevy Silverado	101 - Utility Plant in Service:391 - Transportation Equipment	5,046.71
2014 F250 Crew Cab VIN 60 - 177	177	06/30/2015	2009 Chevy 1500	101 - Utility Plant in Service:391 - Transportation Equipment	37,898.24
2014 Ford F250 White Crew - 178	178	08/04/2014	2014 F250 Crew Cab VIN ...	101 - Utility Plant in Service:391 - Transportation Equipment	37,898.23
2015 Chevy 2500 - ETN - 194	194	08/04/2014	2014 Ford F250 White Cr...	101 - Utility Plant in Service:391 - Transportation Equipment	34,122.33
2015 Chevy 2500 VIN 60243 - 180	180	10/14/2015	2015 Chevy 2500 - ETN	101 - Utility Plant in Service:391 - Transportation Equipment	37,932.07
2016 Chevy 2500 - 202	202	05/19/2015	2015 Chevy 2500 VIN 602...	101 - Utility Plant in Service:391 - Transportation Equipment	43,007.88
2016 Chevy 2500 Utility B - 201	201	08/22/2016	2016 Chevy 2500	101 - Utility Plant in Service:391 - Transportation Equipment	42,290.48
2017 Chevy Silverado (ETN - 213	213	08/22/2016	2016 Chevy 2500 Utility Bed	101 - Utility Plant in Service:391 - Transportation Equipment	808.43
2018 CHEVROLET SILVERADO - 215	215	10/18/2017	2017 Chevy Silverado (ET...	101 - Utility Plant in Service:391 - Transportation Equipment	5,948.95
25 Ft Goose-neck Trailer - 185	185	12/31/2018	2018 CHEVROLET SILVE...	101 - Utility Plant in Service:391 - Transportation Equipment	13,500.00
Ashington Ridge - 1	1	07/02/2015	2018 Dell Laptop	101 - Utility Plant in Service:390 - Office Furniture & Misc. Equip	60,000.00
Ashington Ridge - 3	3	02/20/2007	25 Ft Goose-neck Trailer	101 - Utility Plant in Service:391 - Transportation Equipment	246,000.00
Ashington Ridge - 4	4	01/01/2004	Ashington Ridge	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	7,909.00
Ashington Ridge 1.84 Acres - 154	154	01/01/2004	Ashington Ridge	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	36,700.00
Ashington Ridge 7.81 Acres - 2	2	12/31/2004	Ashington Ridge	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	329,000.00
Belle Vista - 5	5	11/01/2005	Ashington Ridge 1.84 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	15,000.00
Belle Vista - 7	7	11/01/2005	Ashington Ridge 7.81 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	62,597.00
Belle Vista 12.98 Acres - 6	6	11/01/2005	Belle Vista	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	12,500.00
Belle Vista Phase II - 8	8	12/21/2006	Belle Vista 12.98 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	108,700.00
Black Bear Ridge - 10	10	01/01/2003	Belle Vista Phase II	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	39,300.00
Black Bear Ridge - 9	9	01/01/2003	Black Bear Ridge	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	322,000.00
Blue Water Bay - 11	11	01/01/2004	Black Bear Ridge	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	20,000.00
Bluff @ Bradbury 3.22 ac - 163	163	01/01/2013	Blue Water Bay	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	281,900.00
Boswell - 12	12	11/01/2006	Bluff @ Bradbury 3.22 ac...	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	15,000.00
Boswell Rd 5.10 Acres - 147	147	11/01/2006	Boswell	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	15,000.00
Boswell Rd 5.11 Acres - 145	145	11/01/2006	Boswell Rd 5.10 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	15,000.00
Boswell Rd 5.17 Acres - 146	146	11/01/2006	Boswell Rd 5.11 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	18,000.00
Boswell Rd 5.84 Acres - 148	148	11/01/2006	Boswell Rd 5.17 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	21,000.00
Boswell Rd 7.08 Acres - 149	149	11/01/2006	Boswell Rd 5.84 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	27,000.00
Boswell Rd 7.14 Acres - 151	151	11/01/2006	Boswell Rd 7.08 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	131,300.00
Boswell Rd 8.87 Acres - 150	150	11/01/2006	Boswell Rd 7.14 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	41,600.00
Boswell Road - 13	13	11/01/2006	Boswell Rd 8.87 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	21,150.00
Boswell Road 10.33 Acres - 14	14	11/01/2006	Boswell Road	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	128,850.00
Brigadoon - 15	15	07/01/2008	Boswell Road 10.33 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	43,500.00
Brigadoon - 16	16	07/01/2008	Brigadoon	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	9,054.38
Brown Lee - 17	17	01/01/2004	Brigadoon	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	300,000.00
CANON PROGRAF IPF785 PLOT - 205	205	01/09/2017	Brown Lee	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	210,000.00
Cedar Hill - 18	18	01/05/2007	CANON PROGRAF IPF78...	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	30,000.00
Cedar Hill - 19	19	12/31/2008	Cedar Hill	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	18,001.00
Cedar Hill - 21	21	01/15/2007	Cedar Hill	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	31,877.00
Cedar Hill 80 Acres - 20	20	01/05/2007	Cedar Hill 80 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	4,244.00
Chardonney Drip (2) 3.94 - 171	171	08/15/2008	Chardonney Drip (2) 3.94 ...	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	10,000.00
Chardonney Pond 6.81 Acres - 170	170	09/15/2008	Chardonney Drip (2) 3.94 ...	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	496,000.00
Chardonney Pond .88 Acres - 169	169	09/15/2008	Chardonney Pond 6.81 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	28,800.00
Clarke - 8.89 Acres - 161	161	01/01/2013	Chardonney Pond .88 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	19,710.00
Clovercroft Farms - 200	200	03/16/2016	Clarke - 8.89 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	
Clovercroft Farms Drip 8. - 199	199	03/16/2016	Clovercroft Farms	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	
Clovercroft Farms Treatm - 198	198	03/16/2016	Clovercroft Farms Drip 8.0...	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	
			Clovercroft Farms Treatm...	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	



**Tennessee Wastewater Systems, Inc.**  
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Item	FAM Number	Purchase Date	Purchase Description	Account	Cost
Clovercroft Preserve - 204	204	09/23/2016	Clovercroft Preserve	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	549,564.72
Clovercroft Preserve 13.3 - 203	203	09/23/2016	Clovercroft Preserve 13.3...	101 - Utility Plant in Service:353 - Land	40,000.00
Computer - 22	22	07/25/2006	Computer	101 - Utility Plant in Service:390 - Office Furniture & Misc. Equip	1,025.80
Comerstone @ Mitchell Cr - 176	176	01/01/2014	Comerstone @ Mitchell Cr...	101 - Utility Plant in Service:353 - Land	
Comerstone at Mitchell's - 23	23	01/01/2000	Comerstone at Mitchell's ...	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	240,600.00
Comerstone at Mitchell Cr - 24	24	01/01/2000	Comerstone at Mitchell Cr...	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	21,200.00
Creekview Estates 3.07 Ac - 191	191	01/01/2015	Creekview Estates 3.07 A...	101 - Utility Plant in Service:353 - Land	
Cross Plains 60 Acres - 173	173	01/15/2009	Cross Plains 60 Acres	101 - Utility Plant in Service:353 - Land	
Dell Latitude 5580 - 218	218	12/31/2018	Dell Latitude 5580	101 - Utility Plant in Service:390 - Office Furniture & Misc. Equip	1,770.20
Dyer's Hollow Drip Area 1 - 179	179	12/22/2014	Dyer's Hollow Drip Area 1...	101 - Utility Plant in Service:353.5 - Land - Capital Asset	38,472.50
Eagle Crest Resort - 25	25	01/01/2000	Eagle Crest Resort	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	208,000.00
Eagle Crest Resorts - 26	26	01/01/2000	Eagle Crest Resorts	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	18,800.00
East Stewart - 28	28	01/01/2001	East Stewart	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	32,800.00
East Stewart - 30	30	01/01/2001	East Stewart	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	215,000.00
East Stewart 11.47 Acres - 29	29	03/22/2002	East Stewart 11.47 Acres	101 - Utility Plant in Service:353 - Land	105,880.00
East Stewart 5.6 Acres - 174	174	03/30/2004	East Stewart 5.6 Acres	101 - Utility Plant in Service:353 - Land	
East Stewart 8.33 Acres - 27	27	12/31/2001	East Stewart 8.33 Acres	101 - Utility Plant in Service:353 - Land	
Elk Springs - 31	31	06/27/2006	Elk Springs	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	20,000.00
Elk Springs - 32	32	08/15/2007	Elk Springs	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	242,200.00
Elk Springs - 33	33	08/27/2006	Elk Springs	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	250,000.00
Elk Springs - 34	34	08/15/2007	Elk Springs	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	50,800.00
Eudaleigh Barn - 208	208	08/01/2017	Eudaleigh Barn	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	25,000.00
Eudaleigh to McDaniel Far... - 209	209	08/01/2017	Eudaleigh to McDaniel Far...	101 - Utility Plant in Service:354 - Structures & Improv - Capital	18,566.95
Falling Waters - 35	35	01/01/2003	Falling Waters	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	77,006.43
Falling Waters - 36	36	01/01/2003	Falling Waters	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	13,800.00
Fanning Bend - 37	37	12/01/2005	Fanning Bend	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	45,100.00
Fanning Bend - 39	39	12/01/2005	Fanning Bend	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	878,000.00
Fanning Bend .82 Acres - 142	142	12/01/2005	Fanning Bend .82 Acres	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	145,000.00
Fanning Bend 1.25 Acres - 144	144	12/01/2005	Fanning Bend 1.25 Acres	101 - Utility Plant in Service:353 - Land	6,000.00
Fanning Bend 1.52 Acres - 143	143	12/01/2005	Fanning Bend 1.52 Acres	101 - Utility Plant in Service:353 - Land	9,000.00
Fanning Bend 10.55 Acres - 38	38	12/01/2005	Fanning Bend 10.55 Acres	101 - Utility Plant in Service:353 - Land	10,000.00
German Creek - 40	40	11/10/2007	German Creek	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	75,000.00
German Creek - 41	41	11/10/2007	German Creek	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	287,500.00
Granger's Landing - 42	42	05/16/2008	Granger's Landing	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	32,500.00
Granger's Mill 16.198 Ac - 159	159	01/01/2013	Granger's Mill 16.198 Acres	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	39,000.00
Granger's Mill Treatment - 160	160	01/01/2013	Granger's Mill Treatment .25...	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	286,000.00
Grove Drip Field -.81 ac - 181	181	01/01/2015	Grove Drip Field -.81 acres	101 - Utility Plant in Service:353 - Land	20,000.00
Grove Drip Field 9.49 Ac - 182	182	01/01/2015	Grove Drip Field 9.49 Acres	101 - Utility Plant in Service:353 - Land	1,800.00
Guifee Drip (3) 8.47 Ac - 168	168	12/11/2007	Guifee Drip (3) 8.47 Acres	101 - Utility Plant in Service:353 - Land	22,020.00
Guifee Drip Field 10.51 A - 185	185	12/11/2007	Guifee Drip Field 10.51 Ac...	101 - Utility Plant in Service:353 - Land	31,202.00
Guifee Drip(2) 2.06 Acres - 166	166	12/11/2007	Guifee Drip(2) 2.06 Acres	101 - Utility Plant in Service:353 - Land	50,885.00
Guifee Farms - 44	44	12/11/2007	Guifee Farms	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	9,935.00
Guifee Farms - 46	46	12/11/2007	Guifee Farms	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	1,837,700.00
Guifee Farms Facility 7.08 - 45	45	12/11/2007	Guifee Farms Facility 7.08...	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	19,800.00
Guifee Pond 11.21 Acres - 167	167	12/11/2007	Guifee Pond 11.21 Acres	101 - Utility Plant in Service:353 - Land	34,144.00
Harbor Point - 47	47	01/01/2001	Harbor Point	101 - Utility Plant in Service:353 - Land	54,061.00
Harbor Point - 48	48	01/01/2001	Harbor Point	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	30,000.00
Harbor Point 6.62 Acres - 158	158	01/01/2001	Harbor Point 6.62 Acres	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	309,200.00
Hawke Dump Trailer (ETN) - 220	220	01/25/2019	Hawke Dump Trailer (ETN)	101 - Utility Plant in Service:353 - Land	7,889.65
Hidden Springs Resort - 49	49	01/01/2000	Hidden Springs Resort	101 - Utility Plant in Service:391 - Transportation Equipment	17,000.00
Hidden Springs Resort - 50	50	01/01/2000	Hidden Springs Resort	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	162,000.00
Highland Cove - 51	51	01/01/2004	Highland Cove	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	316,480.00
Highlands - 52	52	01/01/2003	Highlands	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	32,000.00
Highlands - 53	53	01/01/2003	Highlands	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	107,000.00
Highlands 3.97 acre - 162	162	01/01/2013	Highlands 3.97 acres	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	5,000.00

Tennessee Wastewater Systems, Inc.  
Fixed Asset Listing  
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Item	FAM Number	Purchase Date	Purchase Description	Account	Cost
Horseshoe Bend - 54	54	01/01/2003	Horseshoe Bend	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	28,000.00
Horseshoe Bend - 55	55	01/01/2003	Horseshoe Bend	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	88,000.00
Jackson Bend - 175	175	08/18/2013	Jackson Bend	101 - Utility Plant in Service:353.5 - Land - Capital Asset	860.00
Jackson Bend - 56	56	01/01/2001	Jackson Bend	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	23,082.00
Jackson Bend - 57	57	01/01/2001	Jackson Bend	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	204,800.00
John Deere 5055 E Tractor - 197	197	01/01/2016	John Deere 5055 E Tractor	101 - Utility Plant in Service:380 - Office Furniture & Misc. Equip	33,500.00
John Deere 8 FT. Bushhog - 195	195	11/13/2015	John Deere 8 FT. Bushhog	101 - Utility Plant in Service:390 - Office Furniture & Misc. Equip	5,300.00
Keys Cove - 58	58	08/01/2005	Keys Cove	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	6,000.00
Kubota Mini Excavator - 192	192	07/09/2015	Kubota Mini Excavator	101 - Utility Plant in Service:390 - Office Furniture & Misc. Equip	38,290.00
Kubota Mini Excavator - 193	193	07/09/2015	Kubota Mini Excavator	101 - Utility Plant in Service:390 - Office Furniture & Misc. Equip	38,290.00
Laurel Cove - 61	61	06/01/2008	Laurel Cove	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	3,180,000.00
Laurel Cove 104.19 Acres - 59	59	06/01/2008	Laurel Cove 104.19 Acres	101 - Utility Plant in Service:353 - Land	502,464.00
Laurel Cove 26.28 Acres - 60	60	06/01/2008	Laurel Cove 26.28 Acres	101 - Utility Plant in Service:353 - Land	126,737.00
Legacy Mountain - 62	62	01/25/2006	Legacy Mountain	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	285,000.00
Legacy Mountain - 63	63	01/25/2007	Legacy Mountain	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	285,000.00
Legacy Mountain East - 64	64	01/25/2006	Legacy Mountain East	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	65,000.00
Legacy Mountain East - 65	65	01/25/2007	Legacy Mountain East	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	30,000.00
Legacy Preserve - 66	66	06/01/2005	Legacy Preserve	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	260,000.00
Legacy Preserve - 67	67	08/01/2005	Legacy Preserve	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	57,000.00
Maple Green - 68	68	01/01/2002	Maple Green	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	48,000.00
Maple Green - 70	70	01/01/2002	Maple Green	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	240,000.00
Maple Green 80.81 Acres - 69	69	12/31/2002	Maple Green 80.81 Acres	101 - Utility Plant in Service:353 - Land	106,900.00
McClennore Farms 2.79 Acres - 152	152	12/31/2003	McClennore Farms 2.79 Acres	101 - Utility Plant in Service:353 - Land	13,455.00
McClennore Farms - 71	71	01/01/2004	McClennore Farms	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	68,000.00
McClennore Farms - 73	73	01/01/2004	McClennore Farms	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	220,000.00
McClennore Farms 8.57 Acres - 72	72	12/31/2003	McClennore Farms	101 - Utility Plant in Service:353 - Land	31,884.00
McClennore Farms Phase II - 74	74	01/01/2004	McClennore Farms Phase II	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	12,000.00
New Holland RB 450 Baler - 196	196	10/22/2015	New Holland RB 450 Baler	101 - Utility Plant in Service:390 - Office Furniture & Misc. Equip	19,138.37
Norton Creek - 75	75	10/01/2008	Norton Creek	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	84,000.00
Norton Creek - 76	76	10/01/2008	Norton Creek	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	478,000.00
Oakpoint Phase II - 77	77	01/01/2004	Oakpoint Phase II	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	18,000.00
Oakwood - 79	79	01/01/1998	Oakwood	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	20,000.00
Oakwood - 80	80	01/01/1998	Oakwood	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	50,000.00
Oakwood 12.05 Acres - 78	78	01/01/2000	Oakwood 12.05 Acres	101 - Utility Plant in Service:353 - Land	90,000.00
Office Furniture - 81	81	03/16/2007	Office Furniture	101 - Utility Plant in Service:390 - Office Furniture & Misc. Equip	12,488.19
Paris Landing - 82	82	09/01/2005	Paris Landing	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	230,000.00
Paris Landing - 84	84	08/01/2005	Paris Landing	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	221,000.00
Paris Landing - Extension - 214	214	10/01/2017	Paris Landing - Extension ...	101 - Utility Plant in Service:360.5 - Sewer Force Main - Capital	16,340.00
Paris Landing 146.3 Acres - 83	83	09/01/2005	Paris Landing 146.3 Acres	101 - Utility Plant in Service:353 - Land	140,000.00
Pebbleshook - 85	85	01/01/2002	Pebbleshook	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	31,000.00
Pebbleshook - 86	86	12/31/2003	Pebbleshook	101 - Utility Plant in Service:353 - Land	12,000.00
Pebbleshook - 87	87	01/01/2002	Pebbleshook	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	170,000.00
Pinney Bay - 88	88	10/01/2008	Pinney Bay	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	95,000.00
River's Edge - 89	89	12/01/2008	River's Edge	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	96,000.00
River's Edge - 91	91	12/01/2008	River's Edge	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	10,800.00
River's Edge 4.66 Acres - 90	90	12/01/2008	River's Edge 4.66 Acres	101 - Utility Plant in Service:353 - Land	18,700.00
River Road Lagoon - 92	92	01/01/1997	River Road Lagoon	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	15,000.00
River Road Lagoon - 93	93	01/01/1997	River Road Lagoon	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	185,000.00
RTV-X900WL-Kubota Utility - 216	216	06/09/2018	RTV-X900WL-Kubota Utility	101 - Utility Plant in Service:391 - Transportation Equipment	15,265.00
Saddle Springs - 94	94	01/01/2002	Saddle Springs	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	60,000.00
Saddle Springs - 96	96	01/01/2002	Saddle Springs	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	276,000.00
Saddle Springs 14.52 acres - 95	95	12/31/2003	Saddle Springs 14.52 acres	101 - Utility Plant in Service:353 - Land	70,024.00
Settler's Ridge - 97	97	07/01/2007	Settler's Ridge	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	234,000.00
Settler's Ridge - 98	98	07/01/2007	Settler's Ridge	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	26,000.00
Smoky Cove - 100	100	02/10/2007	Smoky Cove	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	30,000.00
Smoky Cove - 99	99	02/10/2007	Smoky Cove	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	310,000.00

**Tennessee Wastewater Systems, Inc.**  
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Item	FAM Number	Purchase Date	Purchase Description	Account	Cost
Smoky Village - 101	101	03/01/2008	Smoky Village	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	81,000.00
Smoky Village - 102	102	04/20/2007	Smoky Village	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	89,200.00
Smoky Village - 103	103	03/01/2006	Smoky Village	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	18,000.00
Smoky Village - 104	104	04/20/2007	Smoky Village	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	10,800.00
Smoky Village Land 2.0031 - 217	217	11/30/2018	Smoky Village Land 2.003...	101 - Utility Plant in Service:353 - Land	59,327.89
Southridge - 105	105	01/01/1998	Southridge	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	70,000.00
Southridge Addition 1 - 106	106	01/01/1999	Southridge Addition 1	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	42,000.00
Southridge Phase 5 - 107	107	01/01/2004	Southridge Phase 5	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	22,000.00
Stage Leap - 108	108	12/15/2008	Stage Leap	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	18,800.00
Stage Leap 17.77 Acres - 172	172	12/31/2007	Stage Leap 17.77 Acres	101 - Utility Plant in Service:353 - Land	85,697.00
Starr Creek I - 109	109	01/01/2000	Starr Creek I	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	11,332.00
Starr Creek I - 110	110	01/01/2000	Starr Creek I	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	107,800.00
Starr Creek II - 111	111	01/01/2002	Starr Creek II	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	74,500.00
Starr Creek II - 112	112	01/01/2002	Starr Creek II	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	105,300.00
Sugar Loaf - 113	113	03/01/2008	Sugar Loaf	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	18,000.00
Sugar Loaf - 114	114	03/01/2008	Sugar Loaf	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	162,000.00
Summitt View - 115	115	03/03/2007	Summitt View	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	156,000.00
Summitt View - 116	116	03/03/2007	Summitt View	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	19,000.00
Sunnydale - 118	118	08/01/2005	Sunnydale	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	96,000.00
Sunnydale - 119	119	08/01/2005	Sunnydale	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	15,000.00
Sunnydale 4.33 Acres - 117	117	08/01/2005	Sunnydale 4.33 Acres	101 - Utility Plant in Service:353 - Land	16,000.00
Swan Harbor - 120	120	01/01/1998	Swan Harbor	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	14,800.00
Swan Harbor - 121	121	01/01/1998	Swan Harbor	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	70,600.00
Tall Oaks - 122	122	01/01/1998	Tall Oaks	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	82,000.00
Tall Oaks - 123	123	01/01/1998	Tall Oaks	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	51,000.00
Tall Oaks 3.63 Acres - 156	156	06/01/2011	Tall Oaks 3.63 Acres	101 - Utility Plant in Service:353.6 - Land - Capital Asset	2,498.00
Timber Tops Rental Center - 124	124	11/05/2007	Timber Tops Rental Center	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	36,000.00
Townsend Town Square - 125	125	01/01/2000	Townsend Town Square	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	120,000.00
Townsend Town Square - 126	126	01/01/2000	Townsend Town Square	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	20,000.00
Trailer - 8K 20+5 OTW Bal - 207	207	08/08/2017	Trailer - 8K 20+5 OTW Ba...	101 - Utility Plant in Service:391 - Transportation Equipment	8,078.25
Trailer - Dump - 212	212	03/02/2017	Trailer - Dump	101 - Utility Plant in Service:391 - Transportation Equipment	7,008.25
Trailer - Mowing - 211	211	03/02/2017	Trailer - Mowing	101 - Utility Plant in Service:391 - Transportation Equipment	1,584.13
Trillium - 127	127	04/03/2007	Trillium	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	122,000.00
Trillium Cove - 128	128	04/03/2007	Trillium Cove	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	10,600.00
Turner's Landing - 129	129	04/01/2006	Turner's Landing	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	213,000.00
Turner's Landing - 130	130	04/01/2006	Turner's Landing	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	108,000.00
Watkins Creek - 131	131	01/01/2001	Watkins Creek	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	336,000.00
Watkins Creek - 133	133	01/01/2001	Watkins Creek	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	28,000.00
Watkins Creek 18.28 Acres - 132	132	12/31/2002	Watkins Creek 18.28 Acres	101 - Utility Plant in Service:353 - Land	88,060.00
Watkins Creek 6.44 Acres - 155	155	12/31/2002	Watkins Creek 6.44 Acres	101 - Utility Plant in Service:353 - Land	31,057.00
Watkins Creek Phase III & - 134	134	02/01/2005	Watkins Creek Phase III &...	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	28,000.00
Windor Pointe - 135	135	01/01/1998	Windor Pointe	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	150,000.00
Windor Pointe - 136	136	01/01/1998	Windor Pointe	101 - Utility Plant in Service:381 - Collection Sewers-Gravity	25,000.00
Windor Pointe 5.2 Acres - 157	157	01/01/1998	Windor Pointe 5.2 Acres	101 - Utility Plant in Service:353 - Land	151,000.00
Wormack's Creekview - 137	137	10/31/2006	Wormack's Creekview	101 - Utility Plant in Service:353 - Land	284,000.00
Wormack's Creekview - 138	138	10/31/2006	Wormack's Creekview	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	6,750.00
Wormack's Creekview - 139	139	10/31/2006	Wormack's Creekview	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	162,000.00
Wyndsong - 140	140	12/04/2007	Wyndsong	101 - Utility Plant in Service:380 - Treatment and Disposal Equip	18,000.00
Wyndsong - 141	141	12/04/2007	Wyndsong	101 - Utility Plant in Service:361 - Collection Sewers-Gravity	
Wyndsong Phase II 5.52 Ac - 153	153	12/04/2007	Wyndsong Phase II 5.52 ..	101 - Utility Plant in Service:353 - Land	

Chelsea's Way Subdivision / Callista Road  
Robertson County  
25-Sep-18

Design, Engineering & Construction Budget

<u>Task</u>	<u>Units</u>	<u>Cost</u>	<u>Sub-Total Budget</u>
<u>Design &amp; Engineering</u>			
Engineering Report	1	\$ 12,000.00	\$ 12,000.00
Engineering Design	117	\$250 per lot	\$ 29,250.00
Grid Staking	8	\$250 per acre	\$ 2,000.00
State Operating Permit	1	\$ 3,000.00	\$ 3,000.00
Engineering Coordination	1	\$ 5,000.00	\$ 5,000.00
	<b>SUBTOTAL</b>		<b>\$ 51,250.00</b>
<u>Construction of Treatment, Filter &amp; Drip Infrastructure Access</u>			
Infrastructure Access	1	\$ 6,500.00	\$ 6,500.00
Filter System	1	\$ 29,000.00	\$ 29,000.00
Monitoring System	1	\$ 37,500.00	\$ 37,500.00
Double Dual Arkal	1	\$ 38,000.00	\$ 38,000.00
Tanks	1	\$ 17,000.00	\$ 17,000.00
Pumps & Equipment	1	\$ 175,000.00	\$ 175,000.00
Drip Field	1	\$ 87,000.00	\$ 87,000.00
Fence - high tensile	4000	\$ 4.50 foot	\$ 18,000.00
	<b>SUBTOTAL</b>		<b>\$ 408,000.00</b>
<u>Construction Inspections</u>			
Line Inspections	20	\$ 750.00 each	\$ 15,000.00
Tank Inspections - Preliminary	117	\$ 225.00 each	\$ 26,325.00
Tank Inspections - Final	117	\$ 225.00 each	\$ 26,325.00
	<b>SUBTOTAL</b>		<b>\$ 67,650.00</b>
<u>Regulatory TDEC and TPUC</u>			
Filing Fees	1	\$ 1,000.00	\$ 1,000.00
Legal Fees	1	\$ 6,500.00	\$ 6,500.00
Coordination & Revisions	1	\$ 7,500.00	\$ 7,500.00
	<b>SUBTOTAL</b>		<b>\$ 15,000.00</b>
			<b>\$ 541,900.00</b>
Overhead - 12%	\$ 541,900.00	12%	\$ 65,028.00
Profit - 6%	\$ 606,928.00	6%	\$ 36,415.68
			<b>\$ 101,443.68</b>
	<b>TOTAL</b>		<b>\$ 643,343.68</b>

**Tennessee Wastewater Systems, Inc.****T.R.A. No. 1****Section 3****Third Revised Page 6****WASTEWATER UTILITY SERVICE**

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<b><u>Service Territory</u></b>	<b><u>County</u></b>	<b><u>TRA Docket #</u></b>	<b><u>Rate Class</u></b>
Scales Project	Williamson	14-00006	RATE CLASS 1
Clovercroft Acres	Williamson	14-00062	RATE CLASS 1
Enclave at Dove Lake	Williamson	15-00025	RATE CLASS 1
Lighthouse Pointe	Grainger	17-00146	RATE CLASS 1
Chelsea's Way	Robertson	XX-XXXX	RATE CLASS 1 (T)

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**Issued: February 12, 2019**  
**Issued By: Matthew Nicks, President**

**Effective:**

11-Feb-19

## Projectal Income Statement

Line No.	Item	Year 1	Year 2	Year 3	Year 4	Year 5
	Number of Sewer Customers	30	55	80	105	117
	<b>Access Fees</b>					
	Number of lots with sewer access but no customer	87	62	37	12	0
	Access fee revenue (\$120 x lots)	\$ 30,440.00	\$ 7,440.00	\$ 4,440.00	\$ 1,440.00	\$ -
	<b>Operating Revenue</b>					
1	Service Revenue	\$ 16,614.00	\$ 30,459.00	\$ 44,904.00	\$ 58,149.00	\$ 64,794.60
2	Re-connect fees	\$ -	\$ -	\$ -	\$ -	\$ -
3	Returned Check Charge	\$ -	\$ -	\$ -	\$ -	\$ -
4	Late Payment Charge	\$ -	\$ -	\$ -	\$ -	\$ -
5		\$ -	\$ -	\$ -	\$ -	\$ -
	<b>Total Operating Revenue (sum of Line 1 through 4)</b>	\$ 16,614.00	\$ 30,459.00	\$ 44,904.00	\$ 58,149.00	\$ 64,794.60
	<b>Operating Expenses</b>					
6	Total salaries and wages and payroll taxes (employees only)	\$ 5,000.00	\$ 6,500.00	\$ 8,000.00	\$ 9,500.00	\$ 11,000.00
7	Outside labor expenses (non-employees)	\$ -	\$ -	\$ -	\$ -	\$ -
8	Administrative and office expenses	\$ 1,500.00	\$ 2,000.00	\$ 2,500.00	\$ 3,000.00	\$ 3,500.00
9	Maintenance and repair expenses	\$ 1,000.00	\$ 2,000.00	\$ 3,000.00	\$ 4,000.00	\$ 5,000.00
10	Purchased water	\$ -	\$ -	\$ -	\$ -	\$ -
11	Purchased sewerage treatment	\$ -	\$ -	\$ -	\$ -	\$ -
12	Electric power expense	\$ 900.00	\$ 1,100.00	\$ 1,300.00	\$ 1,500.00	\$ 1,700.00
13	Chemical expense	\$ -	\$ -	\$ -	\$ -	\$ -
14	Testing fees	\$ 600.00	\$ 650.00	\$ 700.00	\$ 750.00	\$ 800.00
15	Transportation expense	\$ 800.00	\$ 1,000.00	\$ 1,200.00	\$ 1,400.00	\$ 1,600.00
16	Other operating expense	\$ -	\$ -	\$ -	\$ -	\$ -
17	Telemetry	\$ 1,320.00	\$ 1,320.00	\$ 1,320.00	\$ 1,320.00	\$ 1,320.00
18	Total operation and maintenance expenses (sum of Line 6 through Line 17)	\$ 11,120.00	\$ 14,570.00	\$ 18,020.00	\$ 21,470.00	\$ 24,920.00
19	Annual depreciation expense	\$ 24,743.98	\$ 24,743.98	\$ 24,743.98	\$ 24,743.98	\$ 24,743.98
20	Property taxes paid on utility property	\$ 3,500.00	\$ 3,500.00	\$ 3,500.00	\$ 3,500.00	\$ 3,500.00
21	Franchise (gross receipts tax)	\$ 2,160.00	\$ 2,160.00	\$ 2,160.00	\$ 2,160.00	\$ 2,160.00
22	Annual NCUC regulatory fee	\$ 706.10	\$ 1,294.51	\$ 1,881.92	\$ 2,471.33	\$ 3,058.77
23	<b>Total operating expenses (sum of Line 18 through Line 22)</b>	\$ 42,230.08	\$ 46,268.49	\$ 50,306.90	\$ 54,346.31	\$ 58,077.75
24	Income taxes	\$ -	\$ -	\$ -	\$ -	\$ -
25	State income taxes	\$ -	\$ -	\$ -	\$ -	\$ -
26	Federal income taxes	\$ -	\$ -	\$ -	\$ -	\$ -
27	Total income taxes	\$ -	\$ -	\$ -	\$ -	\$ -
28	<b>Net operating income</b>	\$ (15,176.08)	\$ (8,369.49)	\$ (1,562.90)	\$ 5,243.69	\$ 6,716.85
29	Interest expense	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
30	<b>Net income</b>	\$ (16,176.08)	\$ (9,369.49)	\$ (2,562.90)	\$ 4,243.69	\$ 5,716.85

1. Expenses were estimated using comparisons to known expenses from similar sewer systems.
2. It is assumed that maintenance expenses will increase due to more homes sending wastewater flow into the sewer system.
3. It is assumed that electric power expenses will increase due to the sewer system treating more wastewater flow.

EX. 31