

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

IN RE:)	
)	
PETITION OF TENNESSEE)	
WASTEWATER SYSTEMS, INC., TO)	DOCKET NO. 24-00037
AMEND ITS CERTIFICATE OF)	
CONVENIENCE AND NECESSITY)	

**PETITION TO AMEND ITS CERTIFICATE OF CONVENIENCE AND NECESSITY
TO INCLUDE THE BURNS SUBDIVISION**

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 known as the Burns Subdivision in Williamson County.

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 – Adenus Technologies, LLC will provide certain materials and supplies to the project as well as panels and telemetry monitoring to the system. Adenus Solutions Group, LLC will construct the wastewater treatment system and drip field. TWSI is aware of and will abide by the Commission's affiliate transaction rules with respect to transactions between TWSI and its affiliates.
5. **Articles of Incorporation** – See Exhibit 5
6. **Tennessee Business License** – See Exhibit 6
7. **Description of Geographic Territory** – The Burns Subdivision is located at 6822 Patton Road in Williamson County. See Map as Exhibit 7.
8. **Description of the Proposed Wastewater System** – The proposed system is designed for 83,700 gpd of wastewater flow, comprised of a watertight effluent pressure collection system, utilizing STEP/STEG tanks and a recirculating media filter treatment system. The treated effluent will be land applied for disposal. The Burns subdivision will connect to the existing Cox-Ladd Treatment Facility which will be expanded to accommodate the additional wastewater volume.
9. **Estimated Dates for commencement and completion of construction** – Construction will commence at a time agreeable between the developer and its contractor and will take approximately 180 days. TWSI is aware of TPUC Rule 1220-04-13-.09(7) and fully expects the wastewater system to be completed within 3 years from the date of the written order granting the CCN. Notice of completion of the system will be filed in this docket as required by the Rule.
10. **Phases/Houses per Phase** – The subdivision will consist of 293 single family homes and an amenity center which will be built in one phase (See Exhibit 7).
11. **Builder/Developer Identity** – See Request to Serve Letter Exhibit 11

David Lamb, President
360 Development, LLC

8119 Isabella Ln., Suite 105
Brentwood, TN 37027
615-574-7133
davis@parks360development.com

Existence of Public Need and Property Rights

12. **Letters from local governments and utilities** – See Exhibits 12A and 12B.
13. **Franchise Agreement** – n/a
14. **Contracts and Agreements** – See Exhibit 14 (Sewer Service Agreement). Any additional relevant contract will be filed in this docket once available. Adenus Solutions Group, LLC, a TWSI affiliate, will be building the system for the developer.

Managerial Ability:

15. **Biographies of officers and key wastewater utility staff w/ list of certifications or professional licenses** – See Exhibit 15
16. TWSI is a certified wastewater provider in the State of Tennessee. Its parent company Adenus Group, LLC owns certified wastewater providers in Alabama, and Ohio.
17. **Merger/Acquisition** – n/a
18. **Treatment System Contractor** – Adenus Solutions Group, LLC is the contractor to build the system. The contractor's license is Exhibit 18.

Technical Ability:

19. **SOP Application/Permit** – See Exhibit 19 (SOP Modification Application). The draft and final SOP will be filed in the Docket upon receipt.
20. **State Operator Certificate** – See Exhibit 20
21. **TWSI Contact Person:**

Matthew Nicks
Tennessee Wastewater Systems, Inc.

615-220-7200
Matthew.Nicks@adenus.com

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

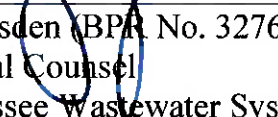
Financial Capability:

23. **Financial Statements** – See Exhibits 23A, 23B, and 23C.
24. **Pro Forma** (Five years of operations) –With almost 6000 customers, the addition of 293 customers at the Burns Subdivision 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** – Estimated cost is \$2,720,250.00. See Exhibit 28.
29. TWSI will own the system once it is completed, inspected, and accepted by the Utility. Estimated amount of contributed capital will include the treatment plant and collection system, as well as the cost of the land conveyed to the Utility. These costs are not 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 to TWSI, 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 of the Burns Subdivision to the residential tariff sheet.
31. **Five Year Build Out Estimate of Development** – See Exhibit 31
32. **Municipal Bonding Requirements** – See Item 33.
33. **Performance Bond** – Williamson County requires a performance bond from the developer prior to the commencement of any construction on the system. A copy of the performance bond will be filed in this docket prior to the commencement of construction of 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 Burns Subdivision in Williamson County, Tennessee, 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

TENNESSEE WASTEWATER SYSTEMS, INC.
OWNERSHIP and ORGANIZATIONAL CHART

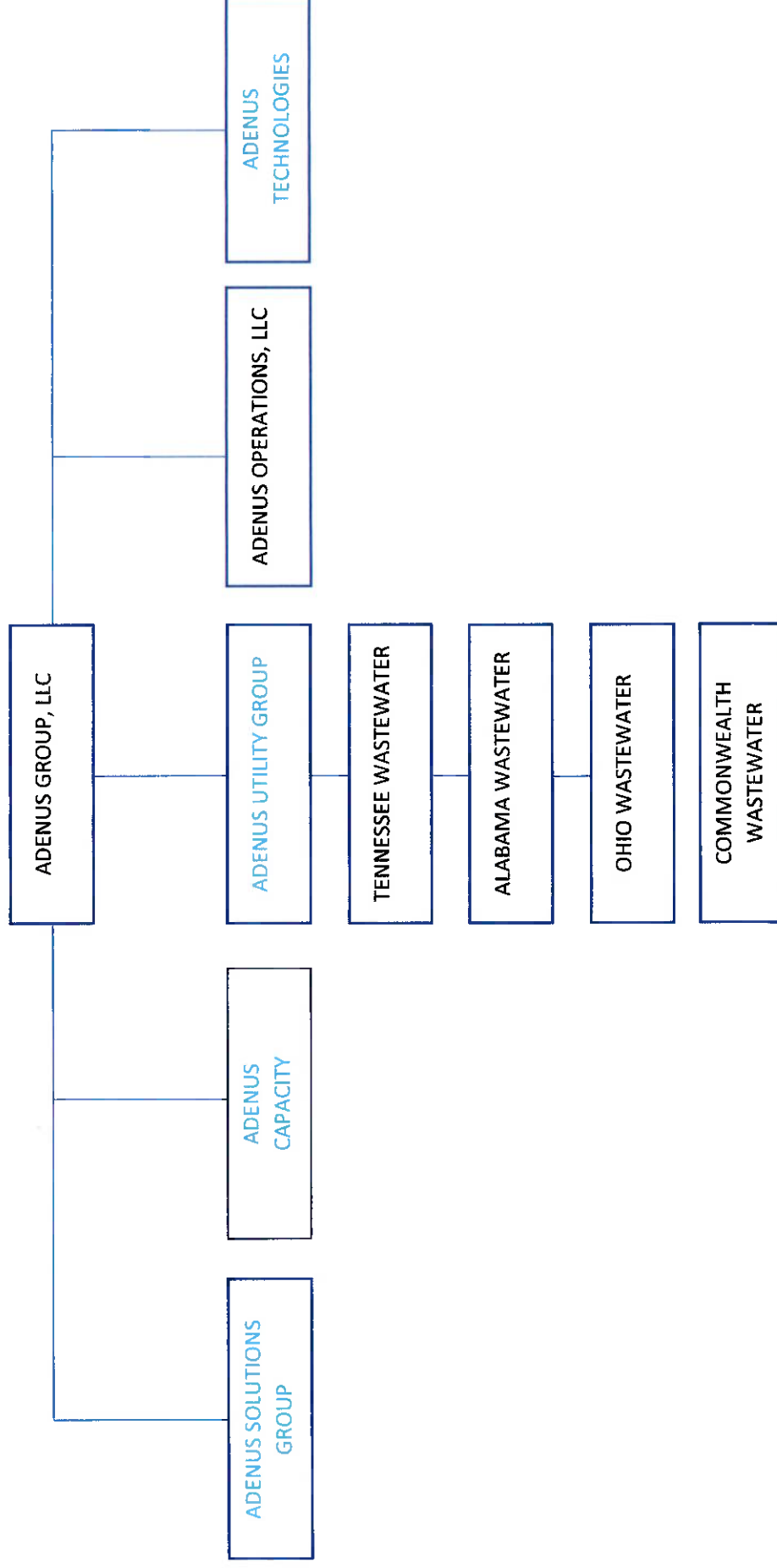
Ownership

Thomas Pickney 33.33%
William Pickney 33.33%
Robert Pickney 33.33%
851 Aviation Parkway
Smyrna TN, 37167
615-220-7200

Officers

Jeff Ridsen, CEO
Matthew Nicks, President
Thomas Pickney, Secretary
William Pickney, Treasurer
Tim, Barber, Controller

ADENUS GROUP, LLC
AFFILIATE
ORGANIZATIONAL CHART



State of Tennessee



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

4848 1792

ARTICLES OF AMENDMENT
TO THE CHARTER
(For-Profit)

For Office Use Only

FILED
JUN 30 2003
TENNESSEE
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

SIGNATURE

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

DATE



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
ADENUS GROUP, LLC
849 AVIATION PARKWAY
SMYRNA, TN 37167

August 9, 2023

Request Type: Certificate of Existence/Authorization
Request #: 0541904

Issuance Date: 08/09/2023
Copies Requested: 1

Document Receipt

Receipt #: 008296648

Filing Fee: \$20.00

Payment-Credit Card - State Payment Center - CC #: 3856142652

\$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;

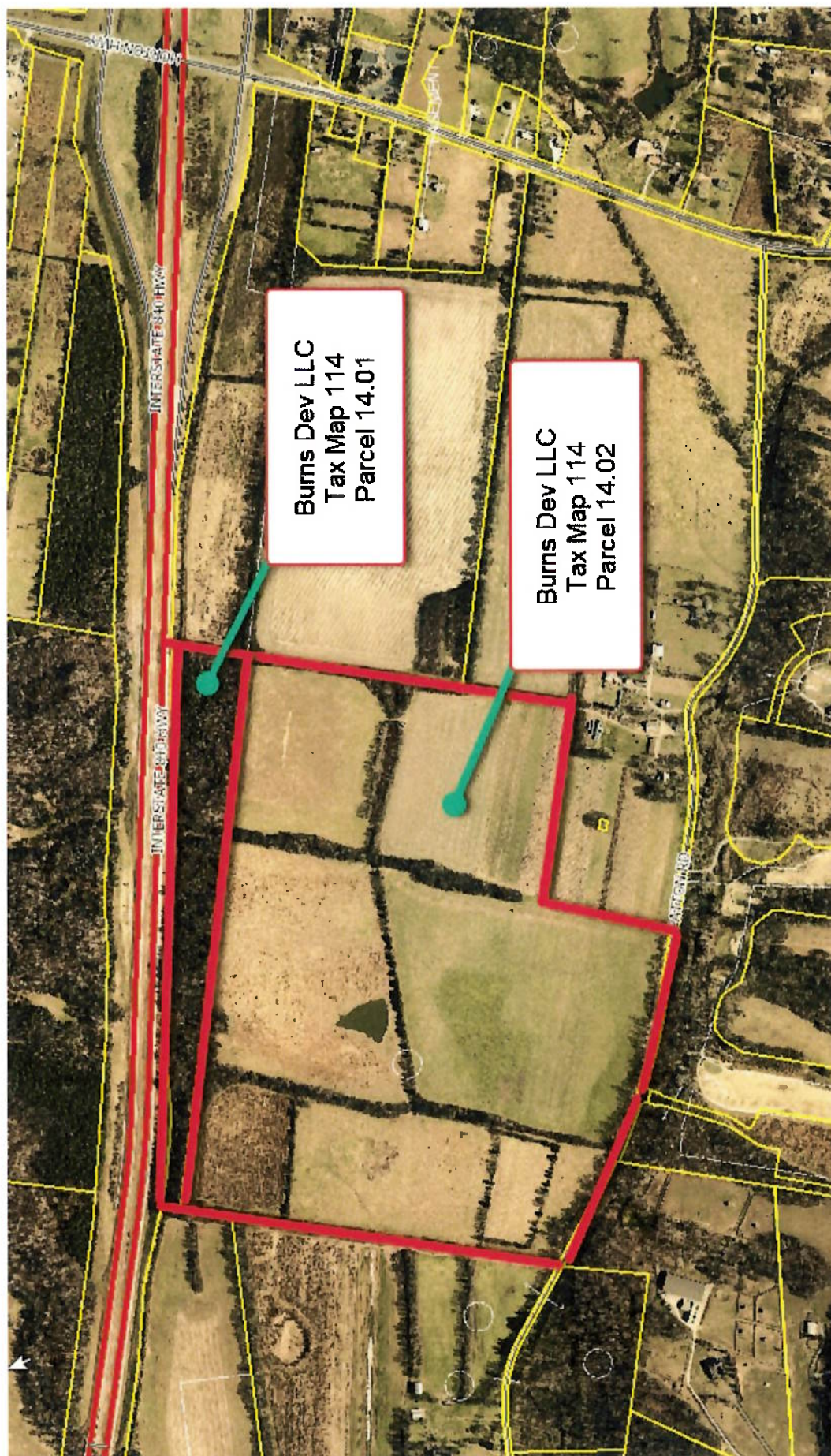
* has appointed a registered agent and registered office in this State;

* 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 #: 062183526



1. The property has been reviewed for the existence of intermittent and perennial streams. Streams that would require Watershed Natural Areas as described in section 4 of the Williamson County Storm Water Management Regulations have been located as shown.
2. Within the Watershed Natural Area, there shall be no clearing, grading, construction or disturbance of vegetation except as permitted by the Williamson County Engineering Department.
3. This property has been evaluated in relation to Articles 13 and 19 of the Williamson County Zoning Ordinance for Resource Protection. The resources include, but are not limited to, Woodland and Tree Protection, Special Flood Hazard Area Protection, Hazard Identification and Protection, Wetland Protection, Wetland Identification and Protection, Wetland Protection, and Historic and Cultural Resources Protection.
4. There are no drinking wells within 300 feet of all components related to the Wastewater Treatment System.
5. All components of the Wastewater Treatment System are on slopes less than 15%.
6. Tree Ditches to be filled with topsoil so they don't pond.
7. All trees, brush and other non-grass vegetation areas to be cleared and grubbed from proposed Canebrake Creek, LLC. Property at the direction of Canebrake Creek, LLC.

2. Within the Wastewater Natural Area, there shall be no clearing, grading, construction or substantial vegetation removal as permitted by the Williamson County Engineering Department.
3. The property has been zoned in relation to Articles 13 and 19 of the Williamson County Zoning Ordinance for Resources Protection. The resources include, but are not limited to, Woodland and Tree Protection, Special Flood Hazard Area Protection, Karst Topographic Protection, and Wetland Protection. The resources not found on the property are Wetland Protection, and Historic and Cultural Resources Protection.
4. There are no existing walls within 300 feet of all components related to the Wastewater Treatment System.
5. All components of the Wastewater Treatment System are on slopes less than 15%.
6. Tree Ditches to be filled with topsoil so they don't pond.
7. All trees, brush and other non-grass vegetation areas to be cleared and grubbed from proposed Canebrake Creek, LLC. Property at the discretion of Canebrake Creek, LLC.

6288 Patton Road
Arlington, TN 37014
Land Date:
199 A.C.
Zoned: TCA-4
Proposed Use:
Conservation Subdivision
Deed Reference:
The property shown herein is Tax Map
136, Parcel 14 and Tax Map 114, Parcel
14.01, in Williamson County, as recorded in
R.B. 7574, Pg. 897 and R.B. 8518, Pg. 762

Address: 8288 Patton Road
Arlington, TN 37014
Land Date:
169 Ac±
Zoned: TCA-4
Proposed Use:
Conservation Subdivision
Deed References:
The property shown herein in Tax Map
136, Parcel 14 and Tax Map 114, Parcel
14.01, in Williamson County, as recorded in
R.B. 7574, Pg. 697 and R.B. 6518, Pg. 752.

Use Type:
Single family residences.

Wastewater Treatment Area: 28.29± Acres
Total acreage of original tract: 188.31± Acres
Area of R.O.W. dedication in Subdivision: 14.82± Acres
Area of Land to be subdivided: 57.90± Acres
Open Space: 70.46± Acres (50%)
Number of lots: 293 Lots



6288 Patton Road
STEP System Design & Wastewater Site Plan
Williamson County, Tennessee



SEC, Inc. is a leading provider of engineering and construction services. We are currently seeking qualified individuals for the following positions:

SITE ENGINEERING CONSULTANTS

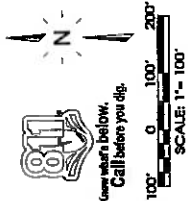
Our clients are seeking individuals with the following qualifications:

- Bachelor's degree in Engineering or Construction Management
- Minimum 5 years of experience in the field
- Strong communication and problem-solving skills
- Ability to work independently and as part of a team

For more information, please contact us at:

SEC, Inc.
1234 Main Street, Suite 500
Anytown, CA 90210
Phone: (555) 123-4567
Email: info@secinc.com

CO.1



**Know what's below.
Call before you dig.**

Burns Development
c/o 360 Development

8119 Isabella Lane, Suite 105
Brentwood, TN 37027
615-574-7133

Mr. Matthew Nicks
Tennessee Wastewater Systems, Inc.
849 Aviation Parkway
Smyrna, TN 37167

Re: Wastewater Treatment Services – Sewer Request
Tax Map 114 Parcels 14.01 & 14.02

Mr. Nicks,

This letter serves as notice that we are requesting sewer service from Tennessee Wastewater Services for our property on Patton Road (Map 114 Parcels 14.01 & 14.02) since Williamson County and Nolensville College Grove Utility District do not provide public sanitary sewer service and have no plans in the foreseeable future to provide such service.

If you have any questions or need additional information, feel free to contact me.

Sincerely,



Bob Parks

c/o Davis Lamb, President
360 Development, LLC
8119 Isabella Lane, Ste 105
Brentwood, TN 37027
O. 615.574-7133
davis@parks360development.com

EX. 121

Rogers C. Anderson
Williamson County Mayor



WILLIAMSON COUNTY GOVERNMENT

April 3, 2024

Mr. Bob Parks
Burns Development c/o 360 Development
8119 Isabella Lane, Suite 105
Brentwood, TN 37027

RE: Sewer Request – Patton Road
Tax Map 114
Parcels 14.01 & 14.02
Owners: Burns Development

Dear Mr. Parks:

This letter serves as notice that Williamson County does not provide public sanitary sewer service and has no plans in the foreseeable future to provide said service, including but not limited to the above referenced property.

If you have any questions or need additional information, feel free to contact me.

Sincerely,

Rogers C. Anderson, Mayor
Williamson County

RCA/jla





N Nolensville/College Grove Utility District

C P.O. Box 127, 2002 Johnson Industrial Blvd., Nolensville, TN 37135

G Phone No. 615-776-2511 - Fax No. 615-776-2591

April 1, 2024

Williamson County Planning Commission
Williamson County Administrative Complex
1320 West Main St., Suite 400
Franklin, TN. 37064

Re: Sanitary Sewer Service Release for Patton Rd (Burns Development)
(Map 114) (Parcel 01401, 01402)

To Whom it may concern:

Nolensville College Grove Utility District by request releases its charter rights to provide sanitary sewer service to the proposed (Burns Development) at Patton Rd (Map 114) (Parcel 01401, 01402).

Please feel free to contact me if I can be of further assistance.

Sincerely,

A handwritten signature in blue ink that reads "Mike E. Polston".

Mike E Polston
General Manager
NCG Utility District

CONFIDENTIAL FILING

EXHIBIT 14A

CONFIDENTIAL FILING

EXHIBIT 14B

**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.

EX.18

STATE OF TENNESSEE
DEPARTMENT OF
COMMERCE AND INSURANCE

ADENUS SOLUTIONS GROUP LLC.

401211

ID NUMBER: 58778
LIC STATUS: ACTIVE
EXPIRATION DATE: March 31, 2025

BOARD FOR LICENSING CONTRACTORS
CONTRACTOR

THIS IS TO CERTIFY THAT ALL REQUIREMENTS
OF THE STATE OF TENNESSEE HAVE BEEN MET

ADENUS SOLUTIONS GROUP LLC.
849 AVIATION PARKWAY
SMYRNA, TN 37167

State of Tennessee

401211 13397694

BOARD FOR LICENSING CONTRACTORS
CONTRACTOR
ADENUS SOLUTIONS GROUP LLC.

This is to certify that all requirements of the State of Tennessee have been met.

ID NUMBER: 58778
LIC STATUS: ACTIVE
EXPIRATION DATE: March 31, 2025
\$812,630.00; BC-B; BC-C; MU; MU-A; MU-C; MU-D

IN-1313
DEPARTMENT OF
COMMERCE AND INSURANCE



**STATE OPERATING PERMIT APPLICATION
MODIFICATION # 17001
COX LADD TREATMENT FACILITY
FOR
ARRINGTON RIDGE, PINE CREEK,
FIDDLERS GLENN SD, & BURNS SD
WILLIAMSON COUNTY, TN**



Table of Contents

<u>Section</u>	<u>Title</u>
----------------	--------------

1.0	SOP Permit Application
2.0	Area of Review
3.0	Ground Water General Description
4.0	Population General Description
5.0	Nature of Fluid
6.0	General Location of Publicly Supplied Water
7.0	Description of System
8.0	Nature and Type of System
9.0	Flow Diagram

1.0 SOP Permit Application

SOP APPLICATION – page 1

Permit Number: SOP-_____

Type of application: ☐ New Permit ☐ Permit Reissuance ☒ Permit Modification**Permittee Identification:** (Name of city, town, utility, 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
(applicant)/Facility Name **Tennessee Wastewater Systems, Inc.**Permittee Address: **851 Aviation Parkway Smyrna, TN 37167**

Official Contact: Jeff Riden	Title or Position: Chief Executive Officer		
Mailing Address: 851 Aviation Pkwy	City: Smyrna	State: TN	Zip: 37167
Phone number(s): (615) 220-7200	E-mail: Jeff.riden@adenus.com		

Optional Contact: Jenny Nichols	Title or Position: Quality Control		
Address: 849 Aviation Pkwy	City: Smyrna	State: TN	Zip: 37167
Phone number(s): office (615) 220-7200	E-mail: <u>Jenny.nichols@adenus.com</u>		

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 - Chief Executive Officer	Signature 	Date 4/1/24
------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------

OFFICIAL STATE USE ONLY

Received Date	Permit Number SOP	Field Office	Reviewer
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SOP APPLICATION – page 2

Permit Number: SOP-__17001__

Facility Identification:		Existing Permit No.	17001
Facility Name: Cox Ladd TF		County:	Williamson
Facility Address or Location: Along Cox Road just south of I-840		Latitude:	N 35° 50'53"
		Longitude:	W 86° 41'48"
Name of Engineer for the project: James F. Reed III P.E., R.L.S.			
Engineer address and phone number:		850 Middle Tennessee Blvd.	615-890-7901
Name and distance to nearest receiving waters: Nelson Creek			
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list their permit numbers: SOP 17001			
Name of company, utility, or governmental entity that will operate the permitted system: Tennessee Wastewater			
Operator address: 851 Aviation Pkwy 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 type="checkbox"/> No <input 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. Tennessee Wastewater Systems Inc. will own the facility and site.			
Name of Public Water Provider: Milcrofton Utility District Mike Jones 615-794-5947 mike@milcrofton.com			
List Standard Industrial Codes (SIC)/ North American Industrial Code (s) (NAIC) for proposed activity (these are located at http://www.census.gov/epcd/www/naicstab.htm) 4941 - water system, 4959 - Sewage treatment, 4971 - Irrigation			
Complete the following information explaining the entity type, number of design units, and daily design wastewater flow:			
<u>Entity Type</u>	<u>Number of Design Units</u>		<u>Flow (gpd)</u>
<input type="checkbox"/> City, town or county	No. of connections:		
<input checked="" type="checkbox"/> Subdivision	No. of homes: 540	Avg. No. bedrooms per home: 3-4 @ 300gpd/home	162,000
<input type="checkbox"/> School	No. of students:	Size of cafeteria(s):	
		No. of showers: 0	
<input type="checkbox"/> Apartment	No. of units:	No. units with Washer/Dryer hookups:	
		No. units without W/D hookups:	
<input type="checkbox"/> Commercial Business	No. of employees:	Type of business:	
<input type="checkbox"/> Industry	No. of employees:	Product(s) manufactured:	
<input type="checkbox"/> Resort	No. of units:		
<input type="checkbox"/> Camp	No. of hookups:		
<input type="checkbox"/> RV Park	No. of hookups:	No. of dump stations:	
<input type="checkbox"/> Car Wash	No. of bays:		
<input checked="" type="checkbox"/> Other		Amenity pool center	2,100 gpd
Describe the type and frequency of activities that result in wastewater generation. The treatment and land application of typical domestic waste.			Total Flow = 164,100 gpd

SOP APPLICATION – page 3

Permit Number: SOP-__17001__

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

Wastewater Collection System:	<input type="checkbox"/> N/A
System type (i.e., gravity, low pressure, vacuum, combination, etc.): Watertight effluent pressure collection system	
System Description: 3", 4 and 6" diameter SDR 17 PVC pressure pipe and required fittings	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Each home has a minimum of 24-36 hours storage in the STEP tank. Heavy rains have a minimal impact on a watertight collection system. Small generators can be connected to the pump stations and treatment system as necessary during an extended power outage.	
In the event of a system failure describe means of operator notification: All pumps have redundancy & alarms.	
List the emergency contact(s) (name/phone): Jenny Nichols /615-220-7200	
For low-pressure systems, who is responsible for maintenance of STEP/STEG tanks and pumps or grinder pumps (list all contact information)? STEP tanks – Tennessee Wastewater, 849 Aviation Parkway, Smyrna, TN 37167 (615) 220-7200	
Approximate length of sewer (excluding private service lateral): ~10,000 LF	
Number/hp of lift stations:	/ Number/hp of lift pumps /
Number/volume of low pressure and or grinder pump tanks Recirculating Media Filters (Biocleres) 3-36/20, 20,000-gal EQ Tank 35,000-gal Recirc Tank, 1-2,000-gal Final Dose Tank, & 10,000-gal drip pump tank	
Number/volume septic tanks 542~1,500 STEP tanks	
Attach a schematic of the collection system. <input checked="" type="checkbox"/> Attached	
If this is a satellite sewer and you are tying into another sewer system complete the following section, listing tie-in points to the sewer system and their location (attach additional sheets as necessary):	
<u>Tie-in Point</u>	<u>Latitude (xx.xxxx°)</u> <u>Longitude (xx.xxxx°)</u>
None	

Land Application Treatment System:	<input type="checkbox"/> N/A
Type of Land Application Treatment System: <input checked="" type="checkbox"/> Drip <input type="checkbox"/> Spray <input type="checkbox"/> Other, explain:	
Type of treatment facility preceding land application (recirculating media filters, lagoons, other, etc.): RBC-Rotating Biological contactor / Fixed Film Treatment	
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.): The existing septic tank and proposed STEP tanks are sized for peak daily flow storage for the purpose of power failures and equipment failures.	
For New or Modified Projects: Arrington Ridge, Pine Creek, Fiddlers Glenn, Burns Sd Name of Developer for the project: Parktrust Bob Parks	
Developer address and phone number P.O. Box 5049 Murfreesboro, TN 37133-5049 (615-896-4045)	
For land application, list: <input checked="" type="checkbox"/> Proposed acreage involved: approx. 37.7 acres total provided	
<input checked="" type="checkbox"/> Inches/week gpd/sq.ft loading rate to be applied: 19.2 acre required with additional 19.2 acre of soils area, approx 0.2 gpd/sf loading rate	
Is wastewater disinfection proposed?	
<input type="checkbox"/> Yes Describe land application area access:	

Permit Number: SOP-__17001__

<input checked="" type="checkbox"/> No	Describe how access to the land application area will be restricted fence with access gates
Attach required additional Engineering Report Information (see website for more information)	
<input checked="" type="checkbox"/> Topographic map (1:25,000 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. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> 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.	
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. 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) see 2.0	
<input checked="" type="checkbox"/> A general description of all past and present groundwater uses as well as the general groundwater flow direction and general water quality. see 3.0	
<input checked="" type="checkbox"/> A general description of the population and cultural development within the AOR; i.e. <input checked="" type="checkbox"/> agricultural, <input type="checkbox"/> commercial, <input type="checkbox"/> residential or <input type="checkbox"/> mixed. see 4.0	
<input checked="" type="checkbox"/> Nature of injected fluid to include physical, chemical, biological or radiological characteristics. see 5.0	
<input checked="" type="checkbox"/> 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) see 6.0	
<input type="checkbox"/> 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.	
<input checked="" type="checkbox"/> Description of system, Volume of injected fluid in gallons per day based upon design flow, including any monitoring wells see 7.0	
<input checked="" type="checkbox"/> Nature and type of system, including installed dimensions of wells and construction materials see 8.0	

Pump and Haul:	<input checked="" type="checkbox"/> 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.):	

Holding Ponds (for non-domestic wastewater only):	<input checked="" type="checkbox"/> N/A
Pond use: <input type="checkbox"/> Recirculation <input type="checkbox"/> Sedimentation <input type="checkbox"/> Cooling <input type="checkbox"/> Other (describe):	

SOP APPLICATION – page 5

Permit Number: SOP- 17001

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? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, describe disposal plan:	
Is the pond ever dewatered? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, describe the purpose for dewatering and procedures for disposal of wastewater and/or sludge:	
Is(are) the pond(s) aerated? <input type="checkbox"/> Yes <input type="checkbox"/> 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.)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Describe the liner material (if soil liner is used give the compaction specifications):	
Is there an emergency overflow structure? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If so, provide a design drawing of structure.</i>	
Are monitoring wells or lysimeters installed near or around the pond(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If so, provide location information and describe monitoring protocols (attach additional sheets as necessary):</i>	
Attach required additional information	
<input 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 GPS coordinates, latitude and longitude in decimal degrees quadrangle name should also be included.	
<input type="checkbox"/> Scaled layout of facility showing the following: lots, buildings, etc. being served, the wastewater collection system routes, the pretreatment system location, roads, property boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection areas, sinkholes and wetlands.	
The area of review (AOR) for each holding pond shall, unless otherwise specified by the Department, consist of the area lying within and below a one-mile radius of the holding pond site or facility, and shall include, but not be limited to surface geographic features, subsurface geology, and demographic and cultural features within the area. Attach to this part of the application a complete characterization of the AOR, including the following: (This can be in narrative form)	
<input type="checkbox"/> Description of all past and present uses of groundwater within the AOR, as documented by public record.	
<input type="checkbox"/> Description of the groundwater hydrology within the AOR, including characteristics of all subsurface aquifers, presence or absence of solution development features, general direction of groundwater movement, and chemical characteristics of the ground waters in the AOR..	
<input type="checkbox"/> Description of the population and cultural development within the AOR, including the number of persons living within one mile of the well or facility, land uses within the AOR, and the existence of any community, state, regional or national parks, wildlife refuges, natural or wilderness areas, recreational or other public-use areas, or any other environmentally sensitive features within the area of review.	
<input type="checkbox"/> 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.	
<input type="checkbox"/> Identify any surface water intake, which supplies a public water distribution system and is located within the AOR or within three miles topographically down gradient from the well or facility. If any such intake(s) wells or springs exist, then locate on map	

Permit Number: SOP- 17001

Mobile Wash Operations:		<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Individual Operator <input type="checkbox"/> Fleet Operation Operator		
Indicate the type of equipment, vehicle, or structure to be washed during normal operations (check all that apply):		
<input type="checkbox"/> Cars	<input type="checkbox"/> Parking Lot(s): sq. ft.	
<input type="checkbox"/> Trucks	<input type="checkbox"/> Windows: sq. ft.	
<input type="checkbox"/> Trailers (Interior washing of dump-trailers, or tanks, is prohibited.)	<input type="checkbox"/> Structures (describe):	
<input type="checkbox"/> Other (describe):		
Wash operations take place at (check all that apply):		
<input type="checkbox"/> Car sales lot(s)	<input type="checkbox"/> Public parking lot(s)	
<input type="checkbox"/> Private industry lot(s)	<input type="checkbox"/> Private property(ies)	
<input type="checkbox"/> County(ies), list:	<input type="checkbox"/> Statewide	
Wash equipment description:		
<input type="checkbox"/> Truck mounted	<input type="checkbox"/> Trailer mounted	
<input type="checkbox"/> Rinse tank size(s) (gal.):	<input type="checkbox"/> Mixed tanks size(s) (gal.):	
<input type="checkbox"/> Collection tank size(s) (gal.):	Number of tanks per vehicle:	
Pressure washer: psi (rated) gpm (rated)	Pressure washer: <input type="checkbox"/> gas powered <input 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 pre-mixed, prior to arriving at wash location? <input 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.

APPLICATION FOR A STATE OPERATION PERMIT (SOP) INSTRUCTIONS

Purpose of this form A completed SOP application must be submitted to obtain SOP coverage. This permit is required to operate a domestic sewage, industrial waste or other waste collection and/or treatment system that does not have a point source discharge to any surface or subsurface waters. This form must be submitted at least 180 days before starting any new activity, or 180 days prior to the expiration date, or when renewing a permit.

Complete the form Type or print clearly, using black or blue ink; not markers or pencil. Answer each item or enter "N/A," for not applicable. If you need additional space, attach a separate piece of paper to the SOP application. Applicants may be required to submit engineering reports, plans and specifications. Contact the division for the applicable items, or visit the Division of Water Pollution Control World Wide Web site at: <http://www.state.tn.us/environment/wpc/> for more information. The application will be considered incomplete absent any of the required information, Engineering Reports, and an original signature.

Permittee Identification/Facility Identification Describe and locate the project, use the legal or official name of the facility or site. Provide the latitude and longitude (expressed in decimal degrees) of the center of the site, which can be located on USGS quadrangle maps. The quadrangle maps can be obtained at 1-800-USA-MAPS, or at the Census Bureau World Wide Web site: <http://www.census.gov/cgi-bin/gazetteer>. Attach a copy of a portion of a 7.5 minute quad map, showing location of site, with boundaries at least one mile outside the site boundaries. If business is mobile give the owner of operations' home, or business office address of the owner, and list all current areas of operation by city and county.

Wastewater Collection System These types of systems require engineering reports, refer to the website (<http://www.tdec.net/wpc/>) for more information.

Land Application Treatment System These types of systems require engineering reports, refer to the website (<http://www.tdec.net/wpc/>) for more information. Public access to the land application and treatment area must be restricted, if disinfection is not part of the treatment. Applicants completing this section of the application must also complete the Wastewater Collection System section.

Pump and Haul These types of systems may require engineering reports, refer to the website (<http://www.tdec.net/wpc/>) for more information.

Holding Ponds Given that annual rainfall onto open ponds exceeds annual evaporation (in Tennessee), the permittee must develop a written plan (to be retained on site and be available to the division upon request) that addresses how excess rainfall will be disposed of in compliance with the no discharge requirement of this permit. Wastewater treatment ponds are not to be used for stormwater treatment or storage. All new and existing point source industrial stormwater discharges associated with industrial activity require coverage under the Tennessee industrial stormwater multi-sector general permit TMSGP, refer to the website (<http://www.tdec.net/permits/stmrh2o.shtml>) for more information. Describe the system for re-routing surface runoff away from ponds in the rainfall disposal plan.

Mobile Wash Operations Indicate whether the operation is run by an individual or a corporation with a fleet of vehicles equipped to wash and collect waste waters. If a corporation, indicate the home office as the "Official Contact". Indicate if operations take place at specific sites and list those counties in which such sites are located. Note that this permit covers operations within the State of Tennessee. Operations indicated as "statewide" generally apply as a fleet type operation and each office location shall be individually permitted. Equipment may be truck or trailer-mounted, or both, indicate all that apply. Soaps, detergents, and other chemicals used should be non-toxic and biodegradable. All "chemically enhanced" (soaps, detergents, and other chemicals) waste-wash waters must be collected for proper disposal. If no chemically enhanced washwaters are used, clear-wash waters may travel by sheet flow to a gravel or grassy area where there is no opportunity to enter waters of the state. There should be no discharge to a storm water inlet, ditch, conveyance, stream, etc. If you are unsure of your wash area drainage, contact the area Environmental Field Office (EFO) prior to setting up your wash operation.

Fees There is a \$250 authorization fee for residential SFDS and \$500 fee for commercial SFDS and commercial holding lagoons. An annual maintenance fee is required and you will be invoiced at a later date.

Submitting the form and obtaining more information Note that a responsible corporate officer, owner, general partner or proprietor, principal governmental executive officer, or highest ranking elected official must sign this form. (See Regulation 1200-4-5-.05(a) for exact authorized signatures.). For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit three complete applications (keep a copy for your records) to the appropriate EFO for the county(ies) where the facility is located, addressed to Attention: WPC, Permit Section Manager.

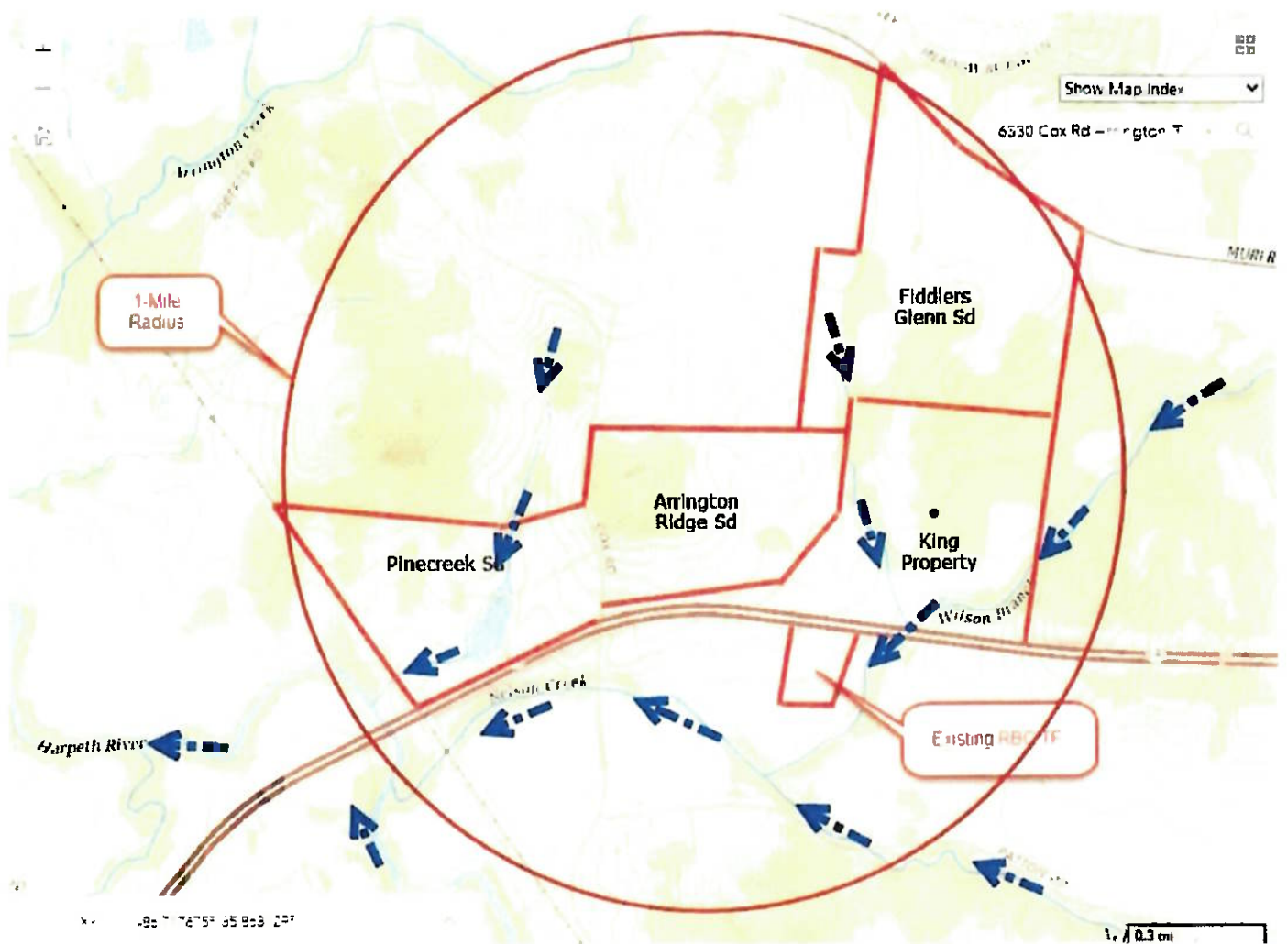
EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	2510 Mt. Moriah Road STE E-645	38115-1520	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Dr	38305-4316	Chattanooga	540 McCallie Avenue STE 550	37402-2013
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	2484 Park Plus Drive	38401	Johnson City	2305 Silverdale Road	37601

Upon receipt of the required items, the division conducts a review of the material, and the applicant is notified of any deficiencies. When all the deficiencies have been corrected, the division will publish a draft permit or provide the applicant with a Notice of Intent to Deny the permit application. When a draft permit is generated, a public notice is issued and published in a local newspaper. The draft permit is then reviewed by the applicant, and division field staff. The general public also has an opportunity to review the permit. Based on public response, a public hearing may be held. After considering public comments and a final review, the permit may be issued or denied for cause. Permits are normally valid for five (5) years, except those for pump and haul systems, which are generally valid for one (1) year.

The division has the right to inspect a facility when deemed necessary. In addition, the division has the right to revoke or suspend any permit for violation of permit conditions or any other provisions of the Tennessee Water Quality Control Act and other water pollution control rules.

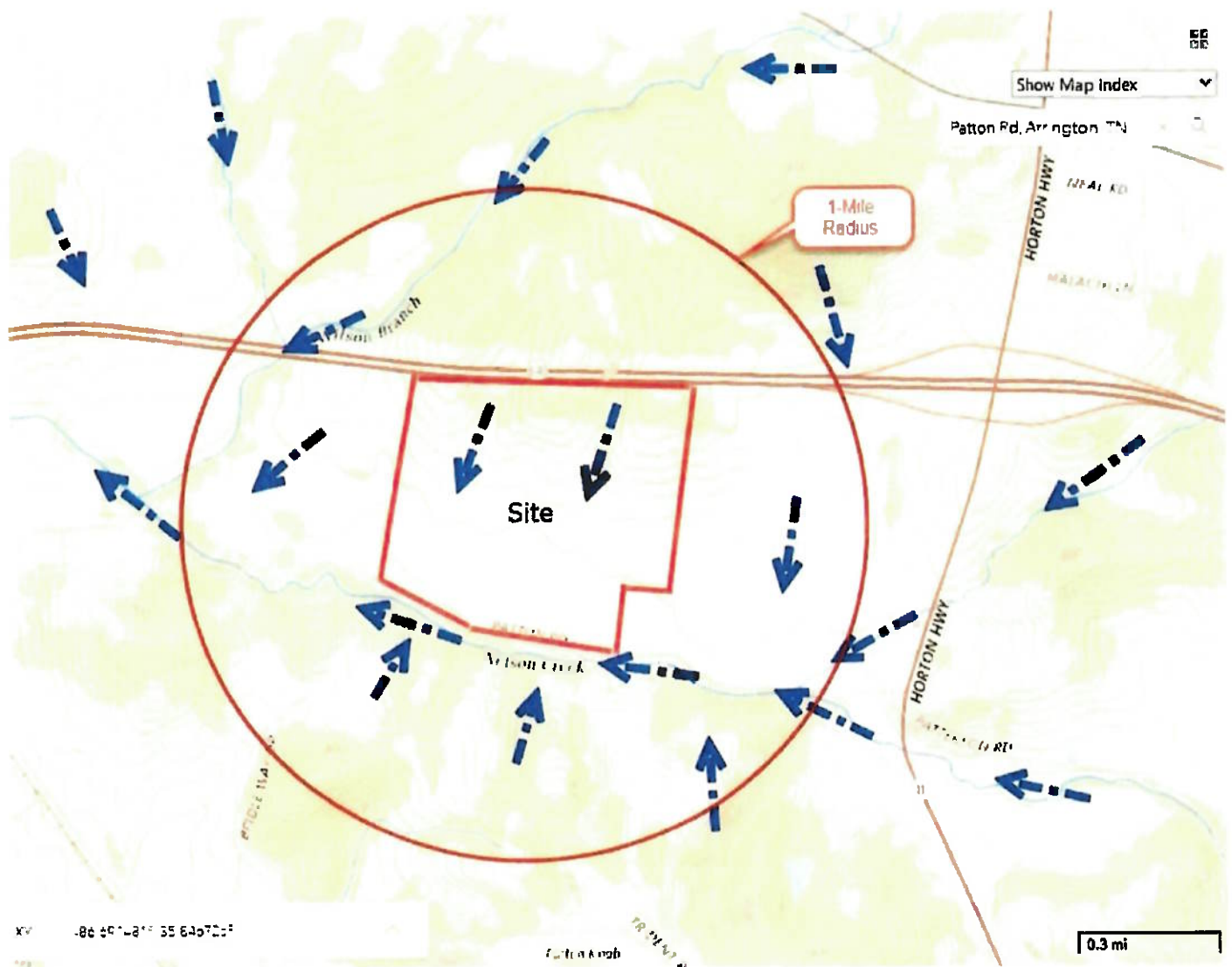
The division is responsible for regulating any activity, which involves a potential discharge in order to protect waters of the State from pollution and to maintain the highest possible standards in water quality.

2.0 Area of Review



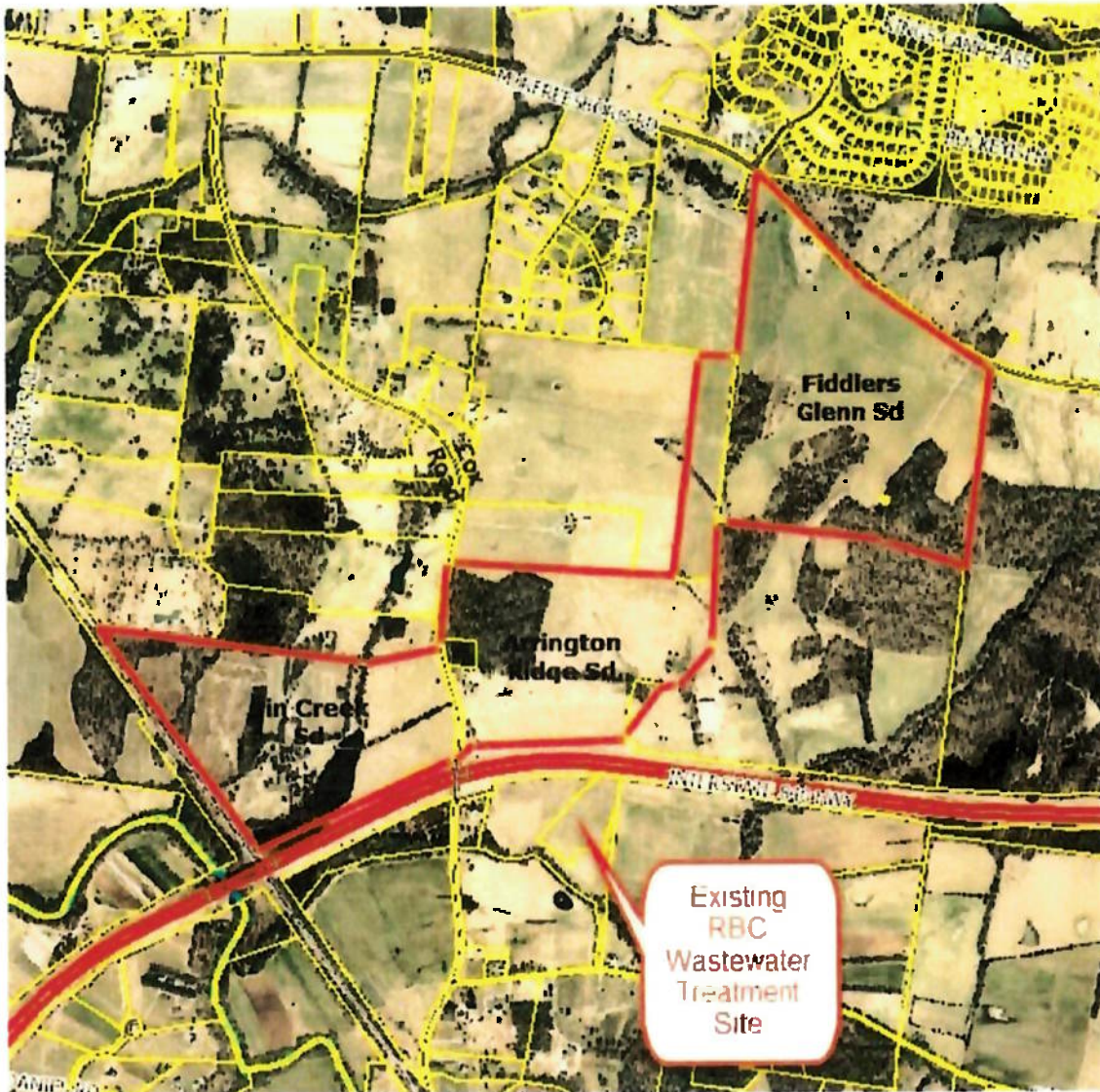
Existing Arrington Ridge, Fiddlers Glenn, and Pinecreek Subdivision

Area of Review



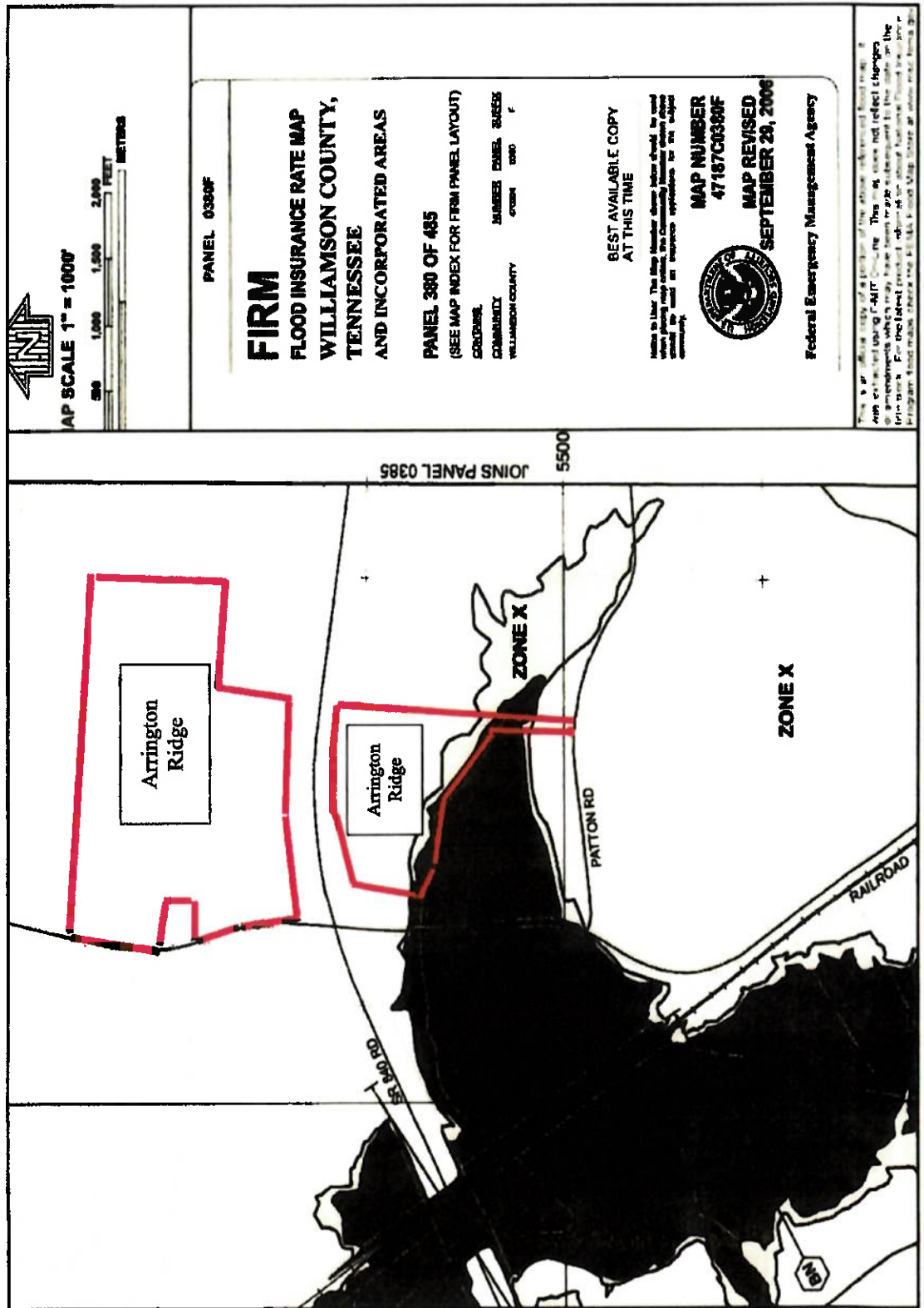
Proposed Burns Subdivision

Area of Review



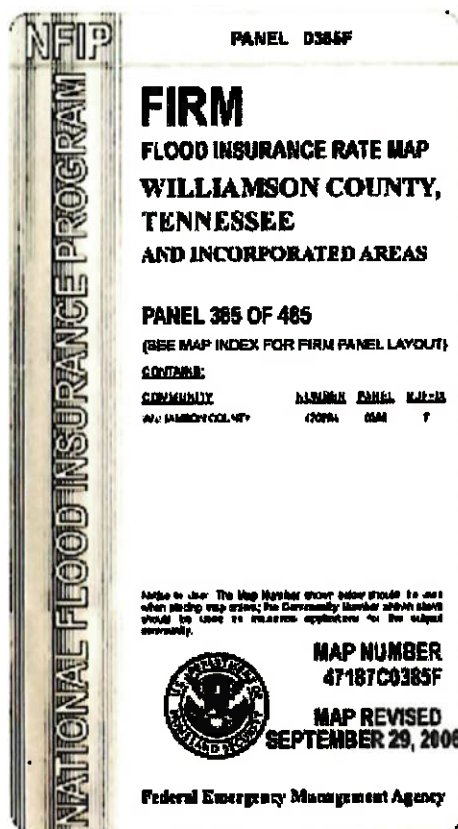
*Existing Arrington Ridge, Fiddlers Glenn and Pinecreek
Subdivision*

Aerial Map



FEMA MAP

SEC Project No. 21156



SEC Project No. 21156

3.0 Groundwater General Description

The attached USGS maps indicate the Cox Ladd Treatment Facility for Arrington Ridge, Pine Creek, Fiddlers Glenn and Burns Subdivision wastewater treatment area drainage flow path is to the south discharging into Nelson Creek that ultimately discharges into Harpeth River. The sites are comprised of approximately 600 acres. The topography is mainly gently rolling to rolling slopes of 5 - 15 %. The property is split by Interstate 840, south by Nelson Creek. West by Cox Road, north and east by large tracts. Roughly 20% of the site is wooded and the 6 acres for drip dispersal is mostly cleared on the southern portion of the property.

The above-mentioned property has typically been used for pastureland. Groundwater was used historically to provide water. At this time the area is served by Milcrofton Utility District for water.

It is assumed that the groundwater movement and surface flows are to the south to Nelson Creek and east towards Harpeth River.

See attached maps and USDA soils info under Section 2 Area of Review.

4.0 Population General Description

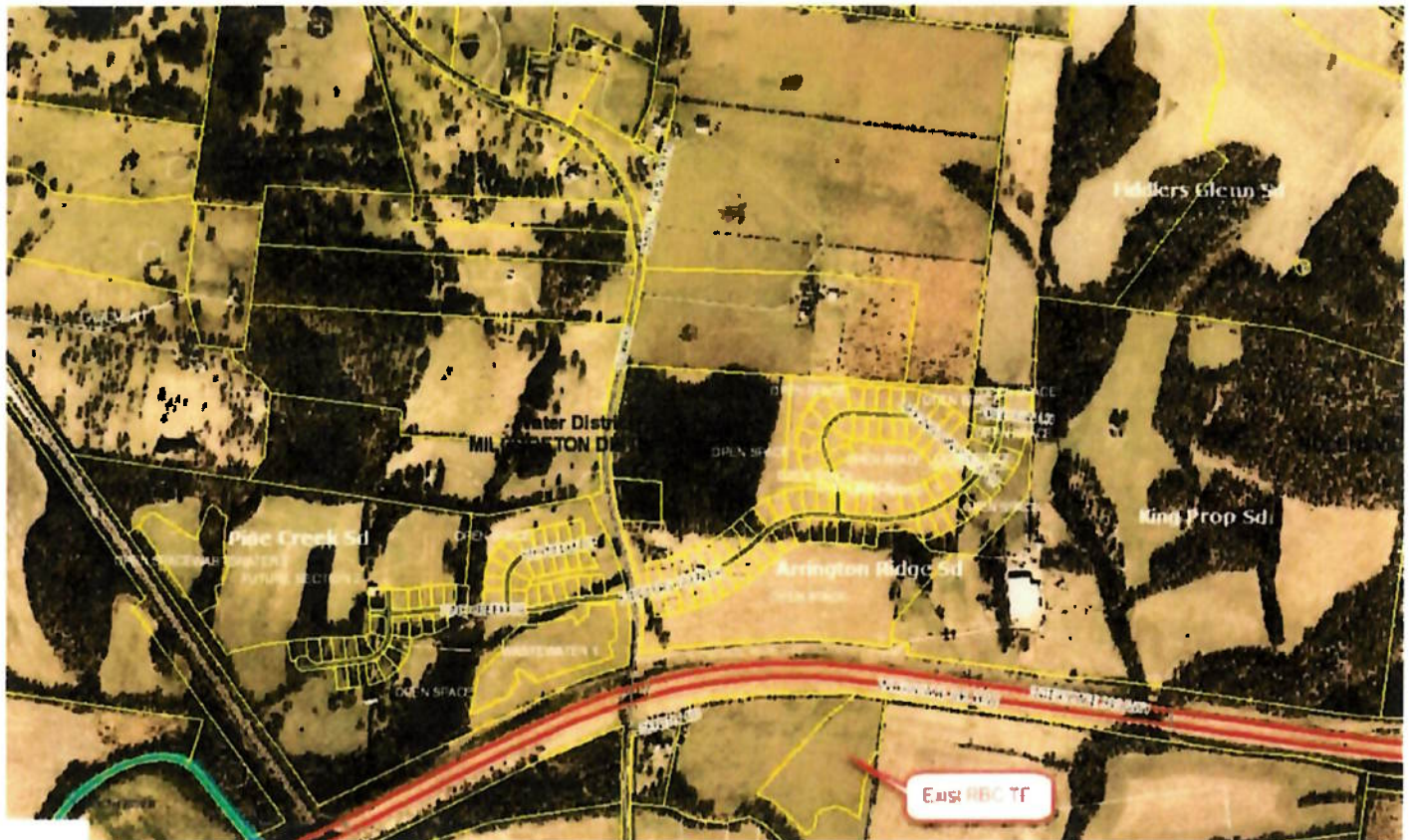
The majority of the Area of Review is agriculture land used primarily for pasture. See attached aerial map of property under Section 2 Area of Review.

5.0 Nature of Fluid

The Cox Ladd Treatment Facility for Arrington Ridge, Pine Creek, Burns and Fiddlers Glenn Subdivision (~540 lots) plus amenity center at 2,100 gpd will have a peak design discharge of approximately 164,100 gpd of domestic wastewater. The effluent quality is typical domestic residential treated wastewater that meets State Operating Permit limits.

6.0 General Location of Publicly Supplied Water

The area will be served by Milcrofton Utility District. See attachment next page.



7.0 Description of System

Treated wastewater, approximately 164,100 gpd, is pumped through arkal filter units and then distributed to HDPE drip lines with pressure compensating emitters. The drip lines are to be installed on 5-foot centers along the contours with the emitters spaced at 2-foot centers along the drip lines. Drip lines are plowed into the soils that have been approved by a certified soil scientist and placed at an approximate depth of 7-8 inches below the ground surface. Distribution of the treated wastewater is managed through solenoid valves and controlled by a programmable PLC.

Pine Creek Daily Flow	
Number of 3-BR Buildable Residential Lots	99 lots
Daily Flow for 3-BR	300 gpd/lot
Daily Flow	29700 gpd

Land Application Area	
Land Application Area	0.2 gal/sf/day*
Total Area Required	148500 s.f.
or	3.41 acres

* assumed soil absorption rate

Number of Required Zones	
Length per zone (@ 5' o.c.)	4250 L.F.
Number of Zones	7.0 Zones

Land Reserve Area	
Area per lot	100% S.F./lot
Total Area Required	148500 S.F.
or	3.41 acres

Pine Creek Total Soils Area Required (Land Application + Reserve)	
297000 s.f.	6.82 acres

Arrington Ridge Sd Daily Flow	
Number of 3-BR Buildable Residential Lots	88 lots
Daily Flow for 3-BR	300 gpd/lot
Daily Flow	26400 gpd

Land Application Area	
Land Application Area	0.2 gal/sf/day*
Total Area Required	132000 s.f.
or	3.03 acres

* assumed soil absorption rate

Number of Required Zones	
Length per zone (@ 5' o.c.)	4400 L.F.
Number of Zones	6.0 Zones

Land Reserve Area	
Area per lot	100% S.F./lot
Total Area Required	132000 S.F.
or	3.03 acres

Arrington Ridge Total Soils Area Req'd (Land Appl + Reserve)	
264000 s.f.	6.06 acres

Fiddlers Glenn Sd Daily Flow	
Daily Flow	
Number of 3-BR Buildable Residential Lots	81 lots
Daily Flow for 3-BR	300 gpd/lot
Daily Flow	24300 gpd

Land Application Area	
Land Application Area	0.2 gal/sf/day*
Total Area Required	121500 s.f.
or	2.79 acres

* assumed soil absorption rate

Number of Required Zones	
Length per zone (@ 5' o.c.)	4050 L.F.
Number of Zones	6.0 Zones

Land Reserve Area	
Area per lot	100% S.F./lot
Total Area Required	121500 S.F.
or	2.79 acres

Fiddlers Glenn Total Soils Area Req'd (Land Appl + Reserve)	
243000 s.f.	5.58 acres

Burns Sd Daily Flow	
Number of 3-BR Buildable Residential Lots	272 lots
Daily Flow for 3-BR	300 gpd/lot
Total Lot Flow	81600 gpd
Amenity Design Flow	2,100 gpd
Total Daily Flow	83,700 gpd

Land Application Area	
Land Application Area	0.2 gal/sf/day*
Total Area Required	418500 s.f.
or	9.61 acres

* assumed soil absorption rate

Number of Required Zones	
Length per zone (@ 5' o.c.)	3800 L.F.
Number of Zones	22.0 Zones

Land Reserve Area	
Area per lot	100% S.F./lot
Total Area Required	418500 S.F.
or	9.61 acres

Total Soils Area Required (Land Application + Reserve)	
837000 s.f.	19.21 acres

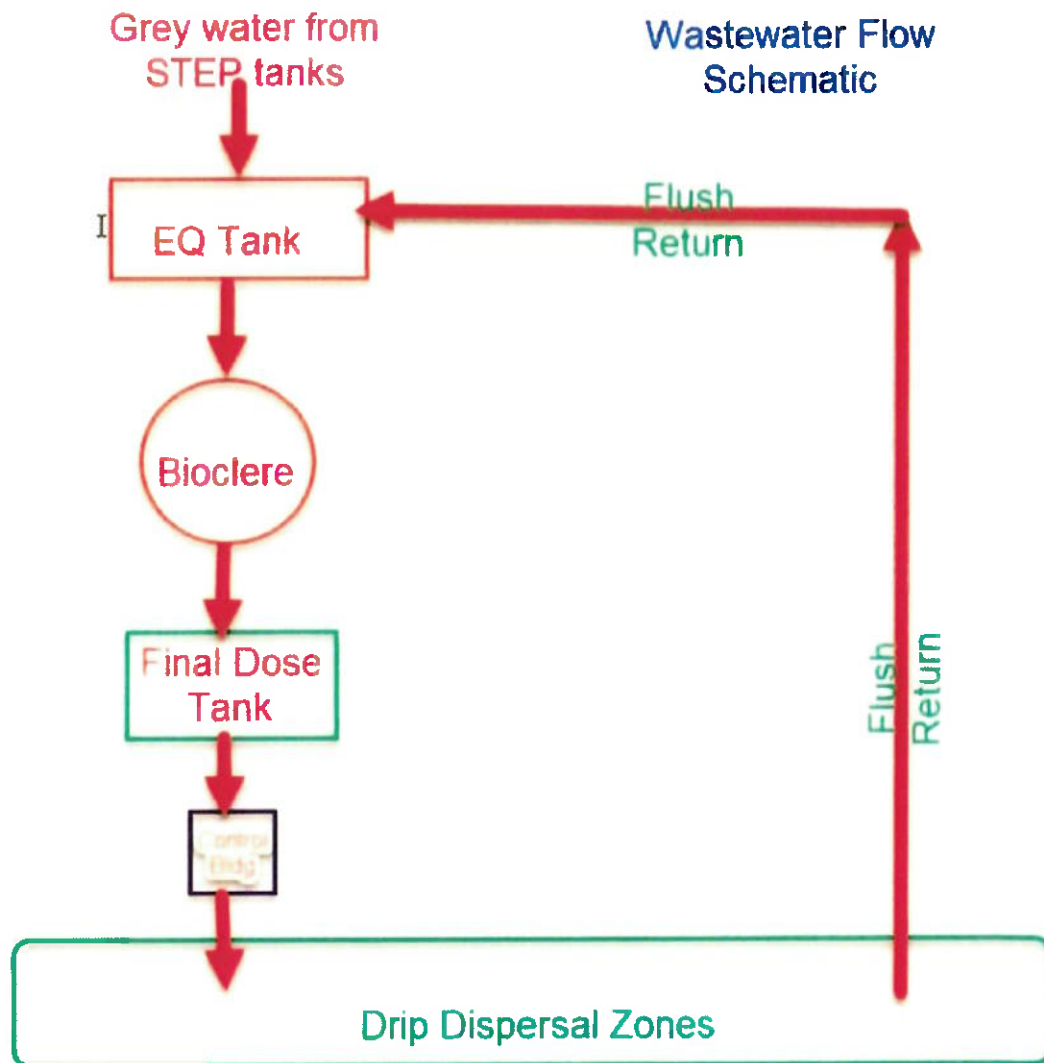
Total Soils Area Required (Land Application + Reserve)	
1641000 s.f.	37.67 acres

Number of 3-BR Buildable Residential Lots	540 lots
Daily Flow for 3-BR	300 gpd/lot
Amenity Flow	2,100 gpd
Daily Flow	164100 gpd

8.0 Nature and Type of System

The Cox Ladd TF is designed for 164,100 GPD wastewater treatment capacity. The wastewater treatment is accomplished by 3 phases as follows: 1-20,000-gal EQ and 1-35,000 recirc tank and 3 – 36/20 Bioclere RMF as the primary treatment with drip dispersal as the land application. The Burns drip addition will include drip dispersal for 22 drip zones at 3,800 LF per zone with 100% reserve area of 9.61 acres.

9.0 Flow Diagram



EX. 20

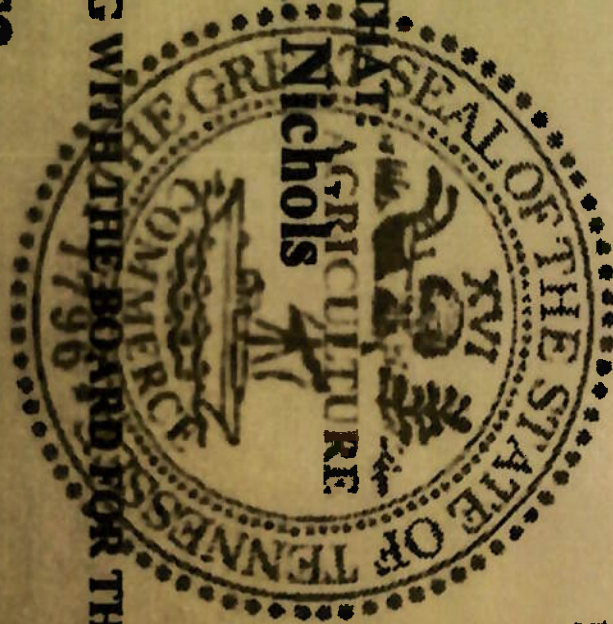
RD

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

I.D. NO.
15046

EXPIRATION DATE
12/31/2024

THIS IS TO CERTIFY THAT
Tracy A. Nichols



IS IN GOOD STANDING WITH THE BOARD FOR THE CLASSIFICATIONS
LISTED:
BNS, CS2

WHEN CORRESPONDING ALWAYS REFER TO YOUR I.D. NUMBER
AND SEND NOTIFICATION OF ADDRESS CHANGE

CONFIDENTIAL FILING

EXHIBIT 23A

CONFIDENTIAL FILING

EXHIBIT 23B

CONFIDENTIAL FILING

EXHIBIT 23C

Tennessee Wastewater Systems, Inc.
Account Listing
February 8, 2021

2:05 PM
02/08/21

Account	Type	Acct. #
1072 · Bill.com Money Out Clearing	Bank	1072
131 · Cash	Bank	131
131 · Cash:131.1 · AmSouth - CD	Bank	131.1
131 · Cash:131.14 · FirstBank - Checking	Bank	131.14
131 · Cash:131.15 · FirstBank - Rider Depository	Bank	131.15
131 · Cash:131.16 · FirstBank - CIAC	Bank	131.16
131 · Cash:131.17 · FirstBank - Escrow	Bank	131.17
Accounts Receivable	Accounts Re...	
141 · Customer A/R	Accounts Re...	141
141 · Customer A/R:141.1 · Sewer Service	Accounts Re...	141.1
141 · Customer A/R:141.1 · Sewer Service:141.12 · East TN	Accounts Re...	141.12
141 · Customer A/R:143 · Bad Debt Reserve	Accounts Re...	143
186.3 · Regulatory Assets	Other Curren...	186.3
186.3 · Regulatory Assets:186.32 · Legal Recovery Receivable	Other Curren...	186.32
186.3 · Regulatory Assets:186.31 · Enviro Rider Settlement	Other Curren...	186.31
99.99 · Customer Count Offset	Other Curren...	99.99
99.99 · Customer Count Offset:99.01 · Customer Count - Rate Class 1	Other Curren...	99.01
99.99 · Customer Count Offset:99.02 · Customer Count - Rate Class 2	Other Curren...	99.02
99.99 · Customer Count Offset:99.03 · Customer Count - Rate Class 5	Other Curren...	99.03
99.99 · Customer Count Offset:99.04 · Customer Count - Rate Class 6	Other Curren...	99.04
99.99 · Customer Count Offset:99.05 · Customer Count - Rate Class 9	Other Curren...	99.05
99.99 · Customer Count Offset:99.06 · Customer Count - Comm Cabin	Other Curren...	99.06
99.99 · Customer Count Offset:99.07 · Customer Count - Comm w/ Food	Other Curren...	99.07
99.99 · Customer Count Offset:99.08 · Customer Count - Comm Nonfood	Other Curren...	99.08
151.00 · Plant Material & Supplies	Other Curren...	151.00
174 · Misc. Current and Accrued Asset	Other Curren...	174
174 · Misc. Current and Accrued Asset:174.2 · Construction Pass-Maple Green	Other Curren...	174.2
174 · Misc. Current and Accrued Asset:174.5 · UMS Undeposited Funds	Other Curren...	174.5
174 · Misc. Current and Accrued Asset:174.6 · Prepaid Expenses	Other Curren...	174.6
105.0 · Construction in Process	Fixed Asset	105.0
105.0 · Construction in Process:105.1 · Smoky Village	Fixed Asset	105.1
105.0 · Construction in Process:105.2 · Maple Green	Fixed Asset	105.2
105.0 · Construction in Process:105.3 · Cedar Hill	Fixed Asset	105.3
105.0 · Construction in Process:105.4 · Hidden Springs TDEC Project	Fixed Asset	105.4
105.0 · Construction in Process:105.5 · TDEC Cross Plains Rehab	Fixed Asset	105.5
101 · Utility Plant in Service	Fixed Asset	101
101 · Utility Plant in Service:353 · Land	Fixed Asset	353
101 · Utility Plant in Service:353.4 · Land - Capital Asset	Fixed Asset	353.4
101 · Utility Plant in Service:354 · Structures & Improv - Capital	Fixed Asset	354
101 · Utility Plant in Service:355 · Structures & Improvements	Fixed Asset	355
101 · Utility Plant in Service:360.5 · Sewer Force Main - Capital	Fixed Asset	360.5
101 · Utility Plant in Service:360 · Collection Sewers-Force	Fixed Asset	360
101 · Utility Plant in Service:361 · Collection Sewers-Gravity	Fixed Asset	361
101 · Utility Plant in Service:380 · Treatment and Disposal Equip	Fixed Asset	380
101 · Utility Plant in Service:390 · Office Furniture & Misc. Equip	Fixed Asset	390
101 · Utility Plant in Service:391 · Transportation Equipment	Fixed Asset	391
108 · Accum. Deprec.-Utility Plant	Fixed Asset	108
108.1 · Accum. Deprec.- Equip	Fixed Asset	108.1
108.2 · Accum. Deprec.Cap. - Buildings	Fixed Asset	108.2

Tennessee Wastewater Systems, Inc.

Account Listing

February 8, 2021

Account	Type	Accnt #
108.3 · Accum. Deprec.Cap. - Force Main	Fixed Asset	108.3
108.4 · Accum. Deprec.Cap. - Treatment	Fixed Asset	108.4
175 · Security Deposits Paid	Other Asset	175
Deferred Tax Benefits	Other Asset	
231 · Accounts Payable	Accounts Pa...	231
253 · Other Deferred Liabilities	Other Curren...	253
253 · Other Deferred Liabilities:253.1 · Defer Rev - Settlement Tariff	Other Curren...	253.1
253 · Other Deferred Liabilities:253.2 · Deferred CIAC Revenue	Other Curren...	253.2
236.12 · Tax from CIAC	Other Curren...	236.12
2110 · Direct Deposit Liabilities	Other Curren...	2110
241 · Misc. Current & Accrued Liab.	Other Curren...	241
241 · Misc. Current & Accrued Liab.:241.1 · Payroll Liabilities	Other Curren...	241.1
241 · Misc. Current & Accrued Liab.:241.1 · Payroll Liabilities:241.1.6 · Aflac Payable	Other Curren...	241.1.6
241 · Misc. Current & Accrued Liab.:241.1 · Payroll Liabilities:241.1.5 · Workers Comp Payable	Other Curren...	241.1.5
241 · Misc. Current & Accrued Liab.:241.1 · Payroll Liabilities:241.1.4 · Simple IRA Payable	Other Curren...	241.1.4
242 · Intercompany Liabilities	Other Curren...	242
242 · Intercompany Liabilities:242.1 · Intercompany-Adenus Group	Other Curren...	242.1
242 · Intercompany Liabilities:242.10 · Intercompany-ALWM	Other Curren...	242.10
242 · Intercompany Liabilities:242.5 · Intercompany-Adenus Operations	Other Curren...	242.5
242 · Intercompany Liabilities:242.6 · Adenus Technologies	Other Curren...	242.6
242 · Intercompany Liabilities:242.7 · Intercompany-Commonwealth	Other Curren...	242.7
242 · Intercompany Liabilities:242.9 · Intercompany Cash	Other Curren...	242.9
232 · Notes Payable	Long Term L...	232
232 · Notes Payable:232.9 · Wilson B&T - (2) Skid Steers	Long Term L...	232.9
232 · Notes Payable:232.10 · Wilson B&T - ETN Truck	Long Term L...	232.10
232 · Notes Payable:232.11 WB&T - Truck	Long Term L...	
232 · Notes Payable:232.12 · FB Environmental Loan - RR	Long Term L...	232.12
232 · Notes Payable:232.13 · Wilson B&T - Bobcat ETN Loan	Long Term L...	232.13
265 · Misc. Operating Reserves	Long Term L...	265
265 · Misc. Operating Reserves:265.1 · Inspection Costs	Long Term L...	265.1
265 · Misc. Operating Reserves:265.2 · Sewer Sys/Comp Repl - Post 2006	Long Term L...	265.2
265 · Misc. Operating Reserves:265.4 · Eudally Reserve	Long Term L...	265.4
215 · Retained Earnings	Equity	215
271 · Cont. in Aid of Construction	Equity	271
271 · Cont. in Aid of Construction:271.1 · CIAC - Williamson County	Equity	271.1
271 · Cont. in Aid of Construction:271.5 · CIAC-ETN Capital	Equity	271.5
272 · Accum. Amort. on CIAC	Equity	272
400 · Operating Revenues	Income	400
400 · Operating Revenues:521 · Flat Rate Revenues	Income	521
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer	Income	521.1
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.1 · Resid...	Income	521.1.1
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.2 · Resid...	Income	521.1.2
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.3 · Resid...	Income	521.1.3
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.4 · Resid...	Income	521.1.4
400 · Operating Revenues:521 · Flat Rate Revenues:521.1 · Residential-Flat Sewer:521.1.5 · Resid...	Income	521.1.5
400 · Operating Revenues:521 · Flat Rate Revenues:521.2 · Commercial Sewer	Income	521.2
400 · Operating Revenues:521 · Flat Rate Revenues:521.2 · Commercial Sewer:521.2.1 · Commercial ...	Income	521.2.1
400 · Operating Revenues:521 · Flat Rate Revenues:521.2 · Commercial Sewer:521.2.2 · Commercial ...	Income	521.2.2
400 · Operating Revenues:521 · Flat Rate Revenues:521.2 · Commercial Sewer:521.2.3 · Commercial ...	Income	521.2.3

Tennessee Wastewater Systems, Inc.
Account Listing
February 8, 2021

Account	Type	Accnt. #
400 · Operating Revenues:522 · Measured Revenues	Income	522
400 · Operating Revenues:522 · Measured Revenues:522.1 · Residential	Income	522.1
400 · Operating Revenues:536 · Other Wastewater Revenues	Income	536
400 · Operating Revenues:536 · Other Wastewater Revenues:536.1 · Sewer Access Fees	Income	536.1
400 · Operating Revenues:536 · Other Wastewater Revenues:536.3 · Operations & Maintenance	Income	536.3
400 · Operating Revenues:536 · Other Wastewater Revenues:536.4 · Billing & Collections	Income	536.4
400 · Operating Revenues:536 · Other Wastewater Revenues:536.5 · Bonding	Income	536.5
400 · Operating Revenues:536 · Other Wastewater Revenues:536.5 · Bonding:536.5.1 · Bonding - Sta...	Income	536.5.1
400 · Operating Revenues:536 · Other Wastewater Revenues:536.5 · Bonding:536.5.2 · Bonding - Goo...	Income	536.5.2
400 · Operating Revenues:536 · Other Wastewater Revenues:536.5 · Bonding:536.5.3 · Bonding - Mil...	Income	536.5.3
400 · Operating Revenues:536 · Other Wastewater Revenues:536.6 · Franchise Income	Income	536.6
400 · Operating Revenues:536 · Other Wastewater Revenues:536.7 · Bioxide	Income	536.7
400 · Operating Revenues:536 · Other Wastewater Revenues:536.9 · Penalty Fees	Income	536.9
400 · Operating Revenues:536 · Other Wastewater Revenues:536.10 · Disconnect/Reconnect Charges	Income	536.10
530 · Guaranteed Revenues	Income	530
419 · Interest Earned	Income	419
421 · Nonutility Income	Income	421
421 · Nonutility Income:421.2 · Gain/Loss on Sale of Assets	Income	421.2
421 · Nonutility Income:421.3 · Utility Fee	Income	421.3
421 · Nonutility Income:421.4 · Professional Services	Income	421.4
421 · Nonutility Income:421.5 · Developer Income	Income	421.5
421 · Nonutility Income:421.7 · Construction Income	Income	421.7
401 · Operating Expenses	Expense	401
401 · Operating Expenses:701.6 · Salary & Wages - Construction	Expense	701.6
401 · Operating Expenses:701 · Salaries and Wages - Employees	Expense	701
401 · Operating Expenses:703 · Salaries and Wages - Officers	Expense	703
401 · Operating Expenses:704 · Employee Benefits	Expense	704
401 · Operating Expenses:704 · Employee Benefits:704.2 · Life Insurance	Expense	704.2
401 · Operating Expenses:704 · Employee Benefits:704.1 · Workers Compensation	Expense	704.1
401 · Operating Expenses:705 · Simple IRA	Expense	705
401 · Operating Expenses:710 · Purchased Wastewater Treatment	Expense	710
401 · Operating Expenses:715 · Purchased Power	Expense	715
401 · Operating Expenses:716 · Telemetry Monitoring	Expense	716
401 · Operating Expenses:718 · Bioxide	Expense	718
401 · Operating Expenses:720 · Materials and Supplies	Expense	720
401 · Operating Expenses:731 · Contractual Svc - Professional	Expense	731
401 · Operating Expenses:735 · Contractual Svc - Testing	Expense	735
401 · Operating Expenses:736 · Contractual Services	Expense	736
401 · Operating Expenses:736 · Contractual Services:736.01 · Sign-up Costs	Expense	736.01
401 · Operating Expenses:736 · Contractual Services:736.02 · Contract Maintenance	Expense	736.02
401 · Operating Expenses:736 · Contractual Services:736.03 · Contractual Svc	Expense	736.03
401 · Operating Expenses:736 · Contractual Services:736.04 · Subcontract Work	Expense	736.04
401 · Operating Expenses:736 · Contractual Services:736.05 · Access Fees	Expense	736.05
401 · Operating Expenses:736 · Contractual Services:736.08 · Lawn Mowing	Expense	736.08
401 · Operating Expenses:736 · Contractual Services:736.10 · One-Call Expenses	Expense	736.10
401 · Operating Expenses:736 · Contractual Services:736.11 · Contractual Profit Sharing	Expense	736.11
401 · Operating Expenses:736 · Contractual Services:736.12 · AUG - MGMT Fees	Expense	736.12
401 · Operating Expenses:736 · Contractual Services:736.13 · IT Expenses	Expense	736.13
401 · Operating Expenses:736 · Contractual Services:736.9 · Adenus Group - MGMT Fees	Expense	736.9

Tennessee Wastewater Systems, Inc.
Account Listing
February 8, 2021

Account	Type	Acct. #
401 · Operating Expenses:740 · Rent	Expense	740
401 · Operating Expenses:750 · Transportation Expense	Expense	750
401 · Operating Expenses:750 · Transportation Expense:750.3 · Registration Renewal	Expense	750.3
401 · Operating Expenses:750 · Transportation Expense:750.1 · Fuel	Expense	750.1
401 · Operating Expenses:750 · Transportation Expense:750.2 · Vehicle Maintenance	Expense	750.2
401 · Operating Expenses:755 · Insurance	Expense	755
401 · Operating Expenses:755 · Insurance:755.10 · Dental Insurance	Expense	755.10
401 · Operating Expenses:755 · Insurance:755.8 · Auto Insurance	Expense	755.8
401 · Operating Expenses:755 · Insurance:755.9 · Health Insurance	Expense	755.9
401 · Operating Expenses:765 · Regulatory Commission Exp.	Expense	765
401 · Operating Expenses:765 · Regulatory Commission Exp.:765.1 · Rate Case Work	Expense	765.1
401 · Operating Expenses:765 · Regulatory Commission Exp.:765.2 · Filing Fee	Expense	765.2
401 · Operating Expenses:765 · Regulatory Commission Exp.:765.3 · Inspection Fee	Expense	765.3
401 · Operating Expenses:770 · Bad Debt	Expense	770
401 · Operating Expenses:775 · Miscellaneous Expenses	Expense	775
401 · Operating Expenses:775 · Miscellaneous Expenses:DVF Misc Account	Expense	
401 · Operating Expenses:775 · Miscellaneous Expenses:775.21 · Website and Internet Hosting	Expense	775.21
401 · Operating Expenses:775 · Miscellaneous Expenses:775.27 · Equipment Maintenance	Expense	775.27
401 · Operating Expenses:775 · Miscellaneous Expenses:775.26 · Equipment Rental	Expense	775.26
401 · Operating Expenses:775 · Miscellaneous Expenses:775.25 · Small Equipment Purchase	Expense	775.25
401 · Operating Expenses:775 · Miscellaneous Expenses:775.1 · Telephone	Expense	775.1
401 · Operating Expenses:775 · Miscellaneous Expenses:775.10 · Office Supplies	Expense	775.10
401 · Operating Expenses:775 · Miscellaneous Expenses:775.11 · Letter of Credit - Fees	Expense	775.11
401 · Operating Expenses:775 · Miscellaneous Expenses:775.11 · Letter of Credit - Fees:775.111 ...	Expense	775.111
401 · Operating Expenses:775 · Miscellaneous Expenses:775.11 · Letter of Credit - Fees:775.112 ...	Expense	775.112
401 · Operating Expenses:775 · Miscellaneous Expenses:775.11 · Letter of Credit - Fees:775.113 ...	Expense	775.113
401 · Operating Expenses:775 · Miscellaneous Expenses:775.12 · Depreciation Expense	Expense	775.12
401 · Operating Expenses:775 · Miscellaneous Expenses:775.13 · Easement Fees	Expense	775.13
401 · Operating Expenses:775 · Miscellaneous Expenses:775.2 · Postage	Expense	775.2
401 · Operating Expenses:775 · Miscellaneous Expenses:775.20 · Software Licenses	Expense	775.20
401 · Operating Expenses:775 · Miscellaneous Expenses:775.23 · Maintenance Agreements	Expense	775.23
401 · Operating Expenses:775 · Miscellaneous Expenses:775.3 · Licenses & Permits	Expense	775.3
401 · Operating Expenses:775 · Miscellaneous Expenses:775.4 · Membership Dues	Expense	775.4
401 · Operating Expenses:775 · Miscellaneous Expenses:775.5 · Deed Registration	Expense	775.5
401 · Operating Expenses:775 · Miscellaneous Expenses:775.6 · Franchise Fees	Expense	775.6
401 · Operating Expenses:775 · Miscellaneous Expenses:775.7 · Public Notice Costs	Expense	775.7
401 · Operating Expenses:775 · Miscellaneous Expenses:775.8 · Interest on Customer Deposits	Expense	775.8
401 · Operating Expenses:775 · Miscellaneous Expenses:775.9 · Billing Costs	Expense	775.9
408 · Taxes Other than Income	Expense	408
408 · Taxes Other than Income:408.1 · Property Taxes	Expense	408.1
408 · Taxes Other than Income:408.3 · Franchise & Excise	Expense	408.3
408 · Taxes Other than Income:408.4 · Labor & Workforce Dev.	Expense	408.4
408 · Taxes Other than Income:408.5 · Personal Privilege Tax	Expense	408.5
408 · Taxes Other than Income:408.6 · Public Utility	Expense	408.6
408 · Taxes Other than Income:408.7 · Tax Penalties	Expense	408.7
408 · Taxes Other than Income:408.12 · Payroll Taxes	Expense	408.12
409 · Income Tax	Expense	409
426 · Misc. Nonutility Expenses	Expense	426
426 · Misc. Nonutility Expenses:426.8 · Penalties/Fines	Expense	426.8

Tennessee Wastewater Systems, Inc.

Account Listing

February 8, 2021

Account	Type	Acct. #
426 · Misc. Nonutility Expenses:246.91 · Lodging	Expense	246.91
426 · Misc. Nonutility Expenses:426.9 · Meals and Entertainment	Expense	426.9
426 · Misc. Nonutility Expenses:426.1 · Dues and Subscriptions	Expense	426.1
426 · Misc. Nonutility Expenses:426.2 · Bank & NSF Fees	Expense	426.2
426 · Misc. Nonutility Expenses:426.3 · Miscellaneous	Expense	426.3
426 · Misc. Nonutility Expenses:426.4 · Parking	Expense	426.4
426 · Misc. Nonutility Expenses:426.5 · Developer Income Reimbursement	Expense	426.5
426 · Misc. Nonutility Expenses:426.7 · Construction Expense	Expense	426.7
427 · Interest Expense	Expense	427
427 · Interest Expense:427.1 · Interest on Debt to Associated	Expense	427.1
427 · Interest Expense:427.2 · Loan Interest	Expense	427.2
427 · Interest Expense:427.5 · Sewer Deposit Interest	Expense	427.5
66900 · Reconciliation Discrepancies	Expense	66900
421.6 · Misc. Income	Other Income	421.6
90100 · Purchase Orders	Non-Posting	90100
90200 · Sales Orders	Non-Posting	90200

CONFIDENTIAL FILING

EXHIBIT 26

CONFIDENTIAL FILING

EXHIBIT 28

Tennessee Wastewater Systems, Inc.

T.R.A. No. 2

Section 1

Seventh Revised Page 2

WASTEWATER UTILITY SERVICE**CHECK SHEET**

Sheets of this tariff are effective as of the date shown at the bottom of the respective sheet(s). Original and revised sheets as named below comprise all changes from the original tariff and are currently in effect as of the date on the bottom of this sheet.

SECTION	SHEET	REVISION	SECTION	SHEET	REVISION
1	1	Original	4	1	Sixth Revised
1	2	Eighth Revised*	5	1	Original
1	3	Original	5	2	Original
1	4	Original	5	3	Original
1	5	Original	5	4	Original
1	6	Original	5	5	Fourth Revised
1	7	Original	6	1	Third Revised
1	8	Original	6	2	Original
2	1	Original	6	3	Third Revised
2	2	Original	6	4	Original
2	3	Original	6	5	Third Revised
2	4	Original			
2	5	Original			
2	6	Original			
2	7	Original			
2	8	Original			
2	9	Original			
3	1	Original			
3	2	Original			
3	3	Original			
3	4	Original			
3	5	Original			
3	6	Fourth Revised*			

Issued: July 24, 2023

Effective: August 23, 2023

Issued by: Matthew Nicks, President

Tennessee Wastewater Systems, Inc.

TPUC No. 2
Section 3
Fourth Revised Page 6

WASTEWATER UTILITY SERVICE

<u>Service Territory</u>	<u>County</u>	<u>TPUC Docket #</u>	<u>Rate Class</u>
Smokey Mountain Reflections RV Park	Sevier	07-00235	RATE CLASS 1
Milky Way Farms	Giles	08-00029	RATE CLASS 1
Preserve Condominiums	DeKalb	08-00113	RATE CLASS 1
Tarpley Shop Utility District	Giles	08-00161	RATE CLASS 5
Lakeside Meadows	Monroe	08-00162	RATE CLASS 1
Fairway Vistas	Blount	08-00163	RATE CLASS 1
Saddle Ridge	Monroe	08-00209	RATE CLASS 1
Scenic River	Monroe	09-00006	RATE CLASS 1
Preserve at Eagle Rock	Hamblen	09-00007	RATE CLASS 1
Bluff at Bradbury Farms	Montgomery	11-00155	RATE CLASS 1
Scales Project Clovercroft Farms/Clovercroft Wells TF	Williamson	14-00006	RATE CLASS 1
Clovercroft Preserve Clovercroft Acres/Clovercroft Tulloss TF	Williamson	14-00062	RATE CLASS 1
Enclave at Dove Lake	Williamson	15-00025	RATE CLASS 1
Lighthouse Pointe	Grainger	17-00146	RATE CLASS 1
Warrioto Hills	Montgomery	18-00107	RATE CLASS 1
Chelsea's Way	Robertson	19-00030	RATE CLASS 1
Oak Plains	Montgomery	21-00075	RATE CLASS 1
The Pointe	Clay	21-00026	RATE CLASS 1
Derby Meadows	Robertson	22-00074	RATE CLASS 1
Lake Haven	Jefferson	22-00134	RATE CLASS 1
Hilltop Ridge	Montgomery	22-00133	RATE CLASS 1
Meadowside	Williamson	22-00139	RATE CLASS 1
Wylea Subdivision	Williamson	23-00073	RATE CLASS 1
Burns Subdivision	Williamson	XX-XXXXX	RATE CLASS 1 (T)

Issued:

Effective:

Issued By: Matthew Nicks, President

WASTEWATER UTILITY SERVICE**SECTION 4 – RESIDENTIAL RATES SHEET**

	Base	Escrow	Bonding	Environmental Rider (D)	Total
Rate Class 1	\$ 40.48	\$ 7.27	\$0.12 (R)	\$0.00	\$ 47.87(R)
Rate Class 2	\$ 40.48	\$ 7.27	\$0.12 (R)	\$0.00	\$ 47.87(R)
Rate Class 5	\$ 36.66	\$ 5.69	\$0.12 (R)	\$0.00	\$ 42.47(R)
Rate Class 6	\$ 36.66	\$ 5.69	\$0.12 (R)	\$0.00	\$ 42.47(R)
Rate Class 9	\$ 20.55	\$ 3.39	\$0.12 (R)	\$0.00	\$ 24.06*(R)

* Southridge customers will have a pass-through treatment cost assessed to their monthly bill. The pass-through treatment cost is calculated using the water meter readings as provided to TWSI by the East Montgomery Water Co. and the multiplier charged to TWSI by Clarksville Gas and Water to provide wastewater treatment. This cost will be filed annually with TPUC in June and effective upon approval. The current pass through treatment cost is 0.0096296082 per gallon.

** Each condominium unit will be billed as a residential customer and be individually billed.

*** Customers in the City of Coopertown will be billed a 3% franchise fee (applied to the base rate only).

**** The bonding fee will be updated with an annual filing with TPUC in August and effective upon approval.

Fees:

Non-Payment – 5% of total bill amount

Disconnection – \$40

Reconnection – \$50

Returned Check (NSF Fee) – \$25

Returned ACH - \$25

Capacity Reservation Fee – \$10 per month (See Rules and Regulations for Explanation)

Credit Card Convenience Fee: 2.45% with a \$1.25 minimum fee (R)(N)

City of Coopertown Franchise Fees: 3%

Issued: December 13, 2022

Effective: December 13, 2022

Issued by: Matthew Nicks, President

6288 Patton Road - Burns Treatment Facility

9-May-24

Projected Income Statement

Line No.	Item	Year 1	Year 2	Year 3	Year 4	Year 5
	Number of Sewer Customers	70	140	210	279	279
	<u>Access Fees</u>					
	Number of lots with sewer access but no customer	216	146	69	0	0
	Access fee revenue (\$120 x lots)	\$ 25,920.00	\$ 17,520.00	\$ 8,280.00	\$ -	\$ -
	<u>Operating Revenue</u>					
1	Service Revenue	\$ 43,831.20	\$ 87,662.40	\$ 131,493.60	\$ 174,698.64	\$ 174,698.64
2	Re-connect Fees	\$ -	\$ -	\$ -	\$ -	\$ -
3	Returned Check Charge	\$ -	\$ -	\$ -	\$ -	\$ -
4	Late Payment Charge	\$ -	\$ -	\$ -	\$ -	\$ -
5	Total Operating Revenue (sum of Line 1 through 4)	\$ 43,831.20	\$ 87,662.40	\$ 131,493.60	\$ 174,698.64	\$ 174,698.64
	<u>Operating Expenses</u> ¹					
6	Total salaries and wages and payroll taxes (employees only)	\$ 1,000.00	\$ 1,500.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
7	Outside labor expenses (non-employee)	\$ -	\$ -	\$ -	\$ -	\$ -
8	Administrative and office expenses	\$ 600.00	\$ 900.00	\$ 1,200.00	\$ 1,200.00	\$ 1,200.00
9	Maintenance and repair expense ²	\$ 1,000.00	\$ 1,200.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00
10	Purchased water	\$ -	\$ -	\$ -	\$ -	\$ -
11	Purchased sewerage treatment	\$ -	\$ -	\$ -	\$ -	\$ -
12	Electric power expense ³	\$ 800.00	\$ 1,000.00	\$ 1,300.00	\$ 1,300.00	\$ 1,300.00
13	Chemical expense	\$ -	\$ -	\$ -	\$ -	\$ -
14	Testing fees	\$ 1,200.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00
15	Transportation expense	\$ 500.00	\$ 600.00	\$ 700.00	\$ 800.00	\$ 900.00
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)	\$ 6,420.00	\$ 8,020.00	\$ 9,520.00	\$ 9,620.00	\$ 9,720.00
19	Annual depreciation expense	\$ 95,788.46	\$ 95,788.46	\$ 95,788.46	\$ 95,788.46	\$ 95,788.46
20	Property taxes paid on utility property	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00
21	Franchise (gross receipts tax)	\$ 6,226.25	\$ 6,226.25	\$ 6,226.25	\$ 6,226.25	\$ 6,226.25
22	Annual NCUC regulatory fee	\$ 1,862.83	\$ 3,725.65	\$ 5,588.48	\$ 7,424.69	\$ 7,424.69
23	Total operating expenses (sum of Line 18 through Line 22)	\$ 111,797.54	\$ 115,260.36	\$ 118,623.19	\$ 120,559.40	\$ 120,659.40

24	Income taxes	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
25	State income taxes	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
26	Federal income taxes	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
27	Total income taxes	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
28	Net operating income	\$	(42,046.34)	\$	(10,077.96)	\$	21,150.41	\$	54,139.24	\$	54,139.24	\$	54,039.24
29	Interest expense	\$	1,000.00	\$	1,000.00	\$	1,000.00	\$	1,000.00	\$	1,000.00	\$	1,000.00
30	Net income	\$	(43,046.34)	\$	(11,077.96)	\$	20,150.41	\$	53,139.24	\$	53,139.24	\$	53,039.24

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