IN THE TENNESSEE PUBLIC UTILITY COMMISSION AT NASHVILLE, TENNESSEE

IN RE:)		
PETITION OF TENNESSEE WASTEWATER SYSTEMS, INC., TO AMEND ITS CERTIFICATE OF CONVENIENCE AND NECESSITY)))	DOCKET NO.	22-00134

PETITION TO AMEND ITS CERTIFICATE OF CONVENIENCE AND NECESSITY TO INCLUDE LAKEHAVEN 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 Lake Haven Subdivision in Jefferson 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 Lake Haven Subdivision is located at 745 Brightstone Way, Sevierville, Tennessee 37876 in Jefferson County; however, the treatment plant will be located in Sevier County. There will be no lots developed or served in Sevier County.
- 8. Description of the Proposed Wastewater System The proposed system is designed for 72,000 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. Commercial cabin communities such as Lake Haven typically generate higher wastewater flow than the standard 300 gpd design flow TDEC recommends. The system has been designed with more capacity based on TWSI's design standards for cabin communities to ensure that sufficient capacity will be available in the system as the cabin community is built out.
- 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 103 single family homes and will be built in 5 phases as follows:

Phase 2 - 20 lots

Phase 3 - 20 lots

Phase 4 - 20 lots

Phase 5 - 19 lots

11. Builder/Developer Identity – See Request to Serve Letter Exhibit 11

Josh Clark, Manager LandART America, LLC 209 E. Main St. Sevierville, TN 37862 951-473-7732 jclark@landartusa.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 Exhibits 14A (Sewer Service Agreement) and 14B Construction Contract.

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, Ohio, and Kentucky.
- 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 19A (Application), 19B (Draft SOP), and 19C (Notice of Complete Application). The final SOP will be filed in this docket once issued by TDEC.

- 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 over 5100 customers, the addition of the Lake Haven 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 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 Lake Haven Subdivision to the residential tariff sheets.
- 31. Five Year Build Out Estimate of Development See Exhibit 31
- 32. Municipal Bonding Requirements No municipal bonding required.
- 33. **Performance Bond** A performance bond from the developer will be provided and a copy will be filed in this docket prior to the 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 Lake Haven Subdivision in Jefferson and Sevier Counties, Tennessee, TWSI respectfully requests the Commission's approval of this Petition.

RESPECTFULLY SUBMITTED,

Jeff Risden (BPR No. 32769)

General Counsel

Tennessee Wastewater Systems, Inc.

851 Aviation Parkway

Smyrna, TN 37167

(615) 220-7171

jeff.risden@adenus.com

Tennessee Wastewater Systems, Inc. Organizational Chart

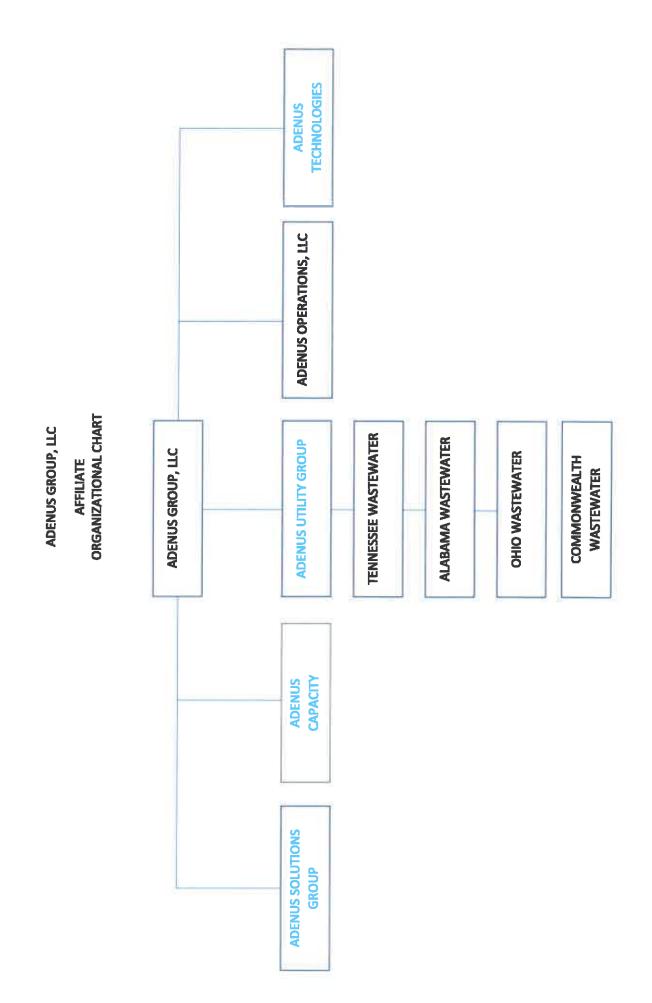
Jeff Risden, CEO

Matthew Nicks, President

Thomas Pickney, Secretary

William Pickney, Treasurer

Tim Barber, Controller





4948 A.792

For Office Use Only

Corporate Filings 312 Eighth Avenue North h Floor, William R. Snedgruss Tower North TN 37243

ARTICLES OF AMENDMENT TO THE CHARTER (For-Preff)

FILED

6 th Floot, William R. Snodgram Tower Nashvile, 'IN 37243		
CORPORATE CONTROL NUMBER (IF KN	10WN) 0263854	Sa Rill Samuelon
PURSUANT TO THE PROVISIONS OF SI CORPORATION ACT, THE UNDERSIGNED TICLES OF AMENDMENT TO ITS CHART	CORPORATION ADOPTS THE PO	
1. PLEASE INSERT THE NAME OF THE	CORPORATION AS IT APPEARS OF	RECORD:
IF CHANGING THE NAME, INSERT THE TENDESSEE WOSTE		W: Inc.
2. PLEASE MARK THE BLOCK THAT AS	PLIES:	
MANENDMENT IS TO BE EFFECTIVE,	· Marine and the second	(MONTE, DAY, YEAR)
(NOTTO BELATER THAN THE SOTH DAY AFTER TO THE AMENDMENT WILL BE ERRECTIVE AT THE		ALTHREST (OCKTR CHECKLE)
3. PLEASE INSERT ANY CHANGES THAT	r apply;	
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DITY	STATE/COUNTY	28P COCCE
B. REGISTEREDAGENT:		
C. REGISTERIEDACORIESS:	STREET ADDRESS	
giy	TN APPENDE	COUNTY
D. OTHER CHANGES:	4071000	CLEGATY
4. THE CORPORATION IS FOR PROFIT.		
5. THE MANNER (IF NOT SET FORTH IN CHANGE, RECLASSIFICATION, OR CA		
6. THE AMENDMENT WAS DULY ADOPT BY (Please mark the block that applies):	ED ON June 30, 200	3_ (MONTH, DAY, YEAR)
☐ THE INCORPORATORS WITHOUT \$HA THE BOARD OF DIRECTORS WITHOUT THE SHAREHOLDERS.	Areholder action, as such w Shareholder approval, as si	AS NOT REQUIRED. UCH WAS NOT REQUIRED.
PRESIDENT BIGHER'S CAPACITY	ohh Ein	1
	_Charles L.	Pickney, JR
DATE	NAME OF SKRIER (TYPED OR PRI	NTED)
88-4421 (Run. 10/01)	Fling Fee: \$30.00	RDA 1978



Division of Business Services Department of State

State of Tennessee 312 Rosa L. Parks AVE, 6th FL Nashville, TN 37243-1102

Secretary of State

JEFF RISDEN JEFF RISDEN **851 AVIATION PARKWAY SMYRNA, TN 37167**

February 8, 2021

Request Type: Certificate of Existence/Authorization

Request #:

0402117

Issuance Date: 02/08/2021

Copies Requested:

Document Receipt

Receipt #: 006056982

Filing Fee:

\$20.00

Payment-Credit Card - State Payment Center - CC #: 3798738680

\$20.00

Regarding:

TENNESSEE WASTEWATER SYSTEMS, INC.

Filing Type:

For-profit Corporation - Domestic

Formation/Qualification Date: 03/16/1993

Status:

Active

Duration Term:

Perpetual

Business County: RUTHERFORD COUNTY

Control #:

263854

Date Formed:

03/16/1993

Formation Locale: TENNESSEE

Inactive Date:

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.

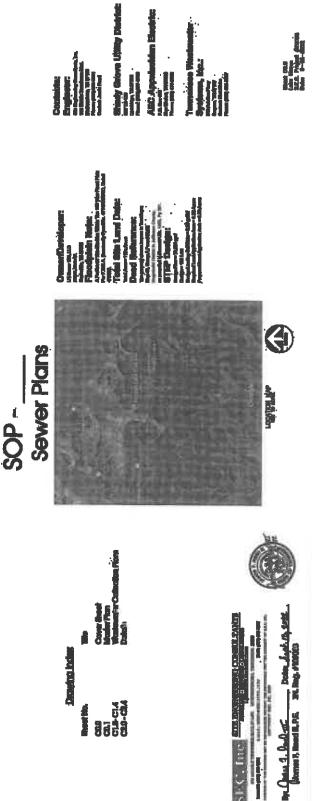
- * is a Corporation duly incorporated under the law of this State with a date of incorporation and duration as given above;
- * has paid all fees, interest, taxes and penalties owed to this State (as reflected in the records of the Secretary of State and the Department of Revenue) which affect the existence/authorization 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.

Secretary of State

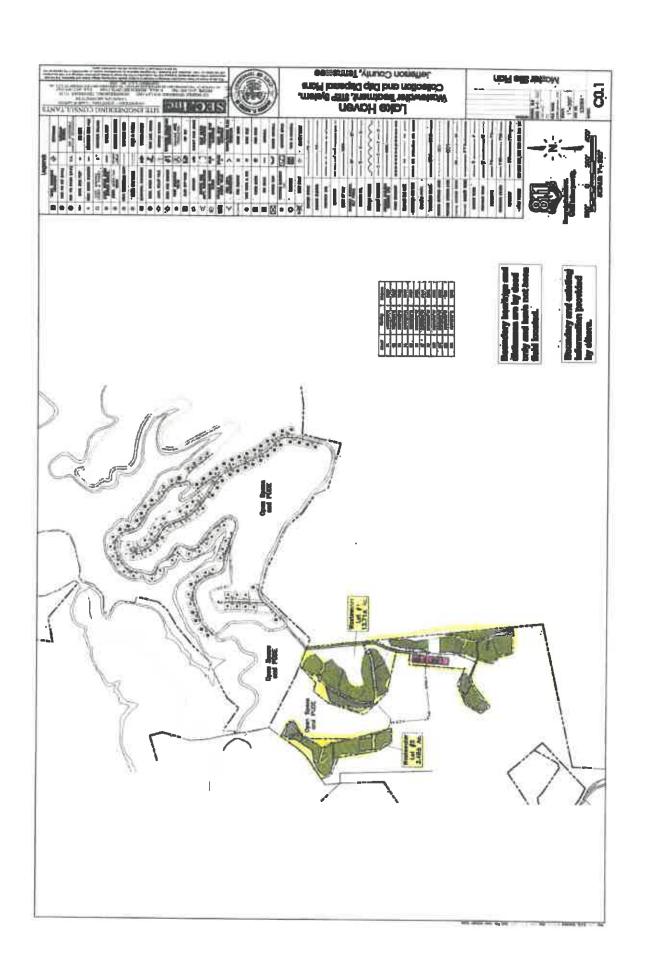
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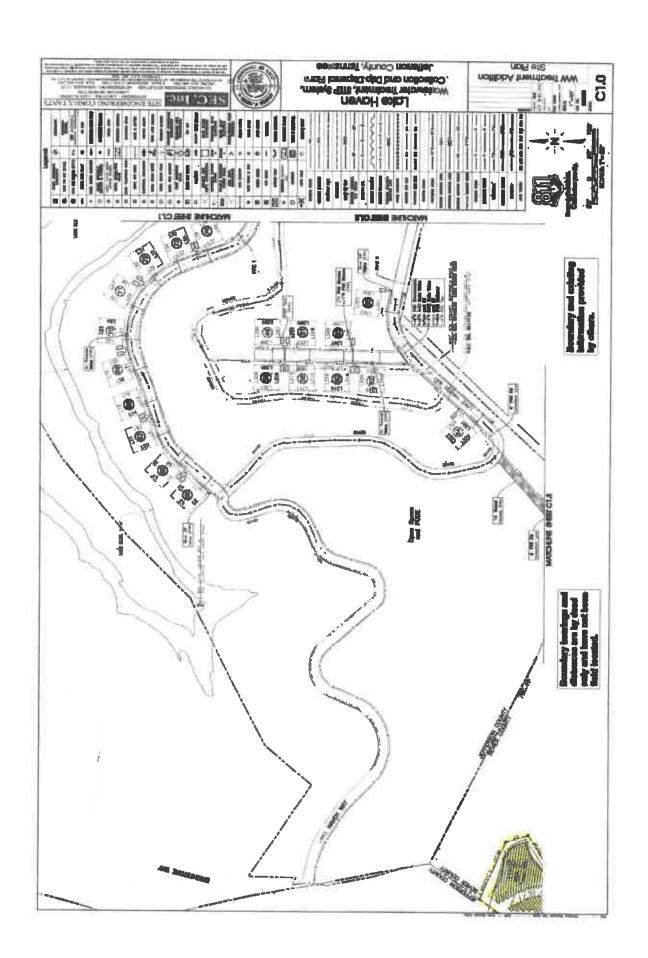
Verification #: 044379741

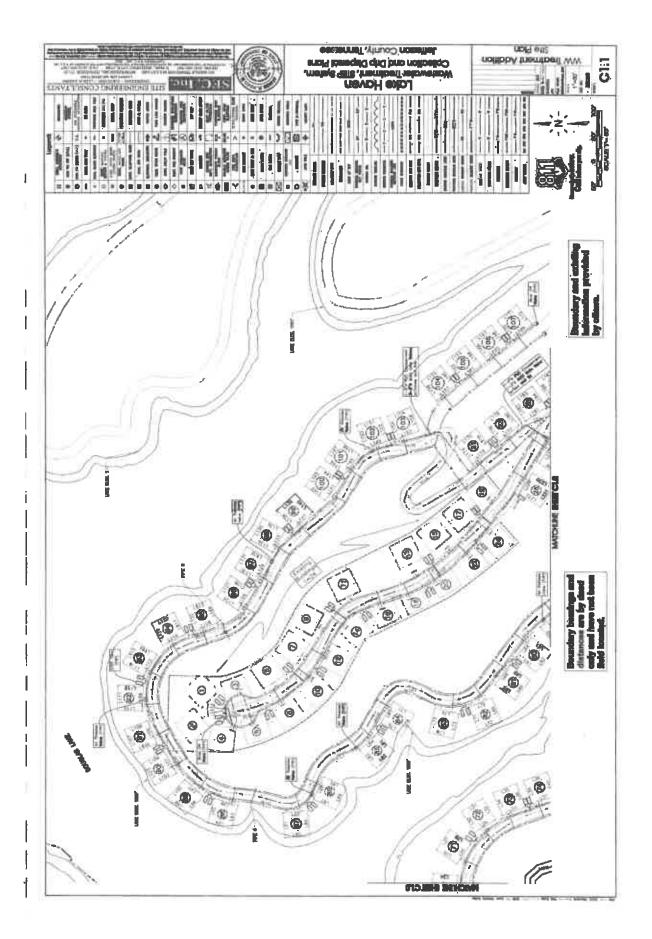
Lake Haven Wastewater Treatment, STEP System, Collection and Drip Dispersal Plans JEFFERSON AND SEVIER COUNTY, TN

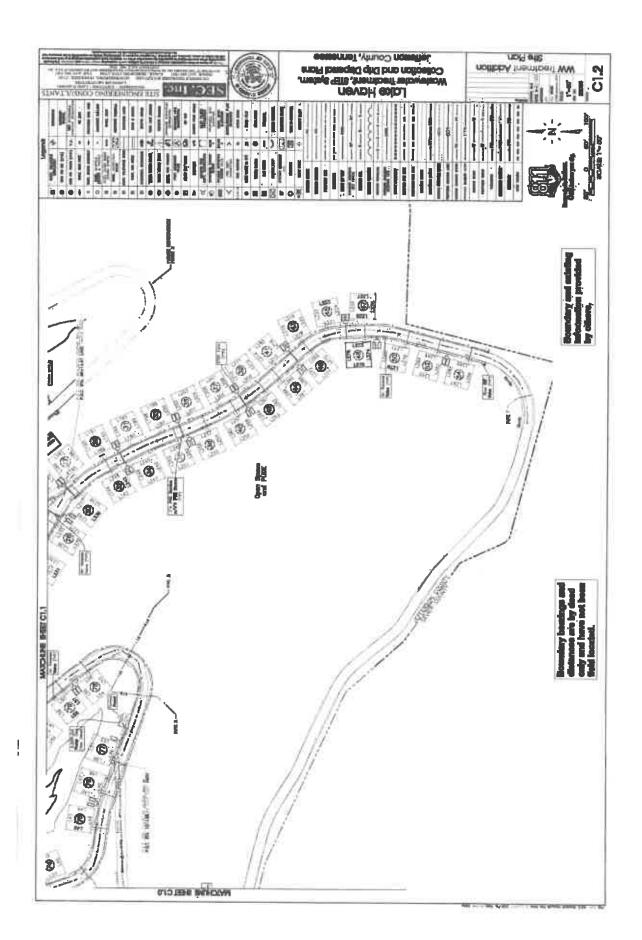


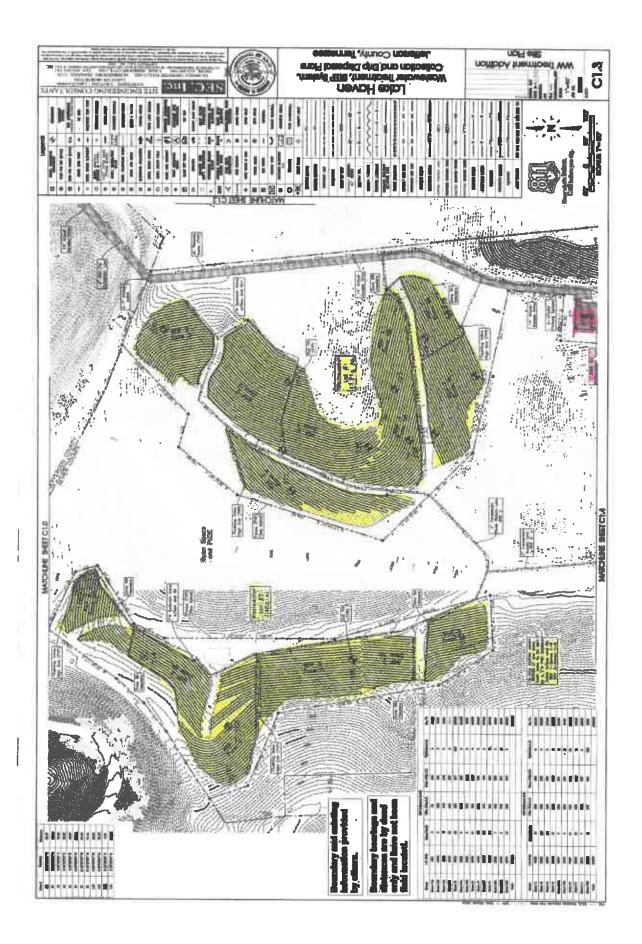
ADENUS SOLUTIONS GROUP 849 AVIATION PARKWAY SMYRNA, TN 37167

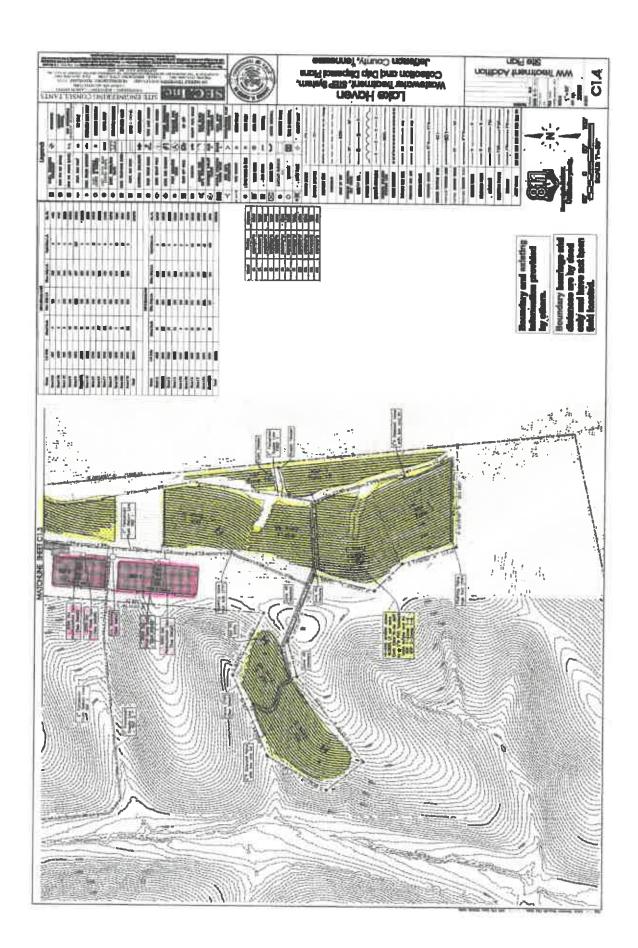


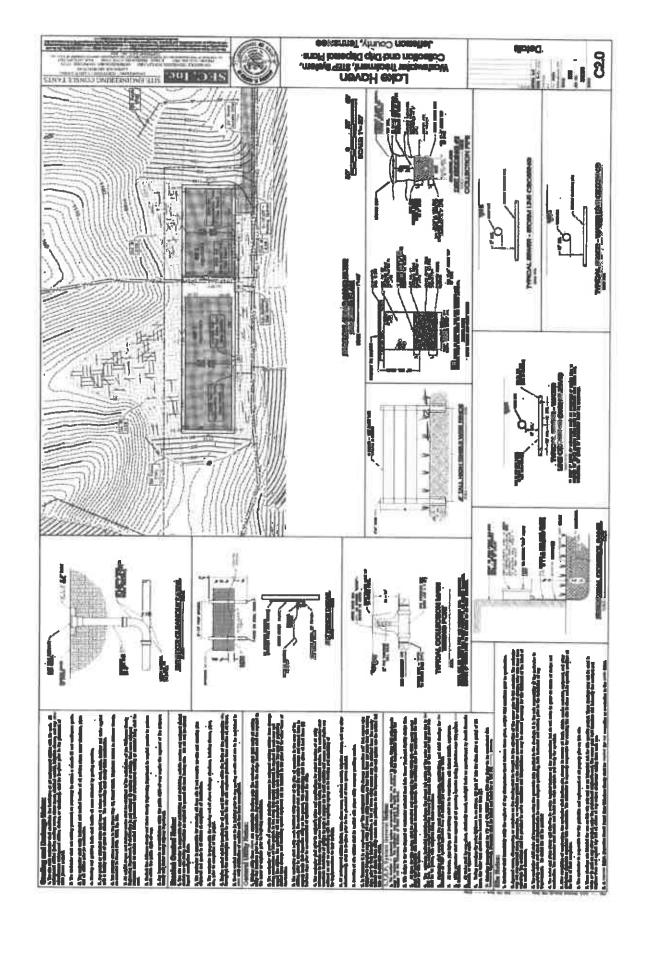














209 E Main St, Sevierville, TN 37862 865-280-3384

To Whom It May Concern,

This letter is to certify that LandART America, LLC is the owner of the Lake Haven Cabin Resort. And as such, is requesting that Tennessee Wastewater Systems, Inc serve the property and that we will convey the wastewater system, the property on which it is located, and all the necessary easements to the Utility upon successful completion of the system.

Sincerely,

Josh Clark Manager

jclark@landartusa.com

951-473-7732

11-21-22

To Whom It May Concern:

This letter is to rectify that Jefferson County TN does not provide sewer access to the Lake Haven Cabin property located at 745 Brightstone Way, Sevierville, TN 37876

If you have any further questions, please feel free to call our office at 865-397-1617.

Sincerely,

Toni Caprio

Office Manager - Environmental Health Dept.

865-397-1617



November 21, 2022

To Whom It May Concern

RE: Water and Sewer service at: 745 Brightstone Way, Sevierville, TN 37876

To Whom It May Concern:

The City of Sevierville Water and Sewer Department does not provide water and sewer service to the above reference address.

If you have further questions, feel free to contact me at (865) 868-1524.

Sincerely,

Kelsey Scheppmann

Kelsey Scheppmann Administrative Assistant City of Sevierville Water and Sewer Dept.

Confidential Exhibit 14A

Confidential 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 Risden, CEO – Mr. Risden Joined Adenus in 2015 as General Counsel before rising to CEO in late 2018. Prior to Adenus Mr. Risden 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 developerwho 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.



STATE OF TENNESSEE DEPARTMENT OF COMMERCE AND INSURANCE



377599

ADENUS SOLUTIONS GROUP LLC.

ID NUMBER: 58778 LIC STATUS: ACTIVE EXPIRATION DATE: March 31, 2023

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

377599

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, 2023

\$812,630,00; BC-B; BC-C; MU; MU-A; MU-C; MU-D



IN-1313 DEPARTMENT OF COMMERCE AND INSURANCE BOARD FOR LICENSING CONTRACTORS

AREAS OF CERTIFICATION/MONEY LIMITS

\$812,690.00; BC-8; BC-C; MU; MU-A; MU-C; MU-D



STATE OPERATING PERMIT APPLICATION SOP

Lake Haven Treatment Facility
Recirculating Media Filter & Drip Dispersal
Lake Haven Way

Tennessee Wastewater Systems Inc. Jefferson & Sevier County, TN





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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 Schematic

1.0 SOP Permit Application



Tennessee Department of Environment and Conservation Division of Water Resources William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243-1102 (615) 532-0625

APPLICATION FOR A STATE OPERATION PERMIT (SOP)

	AFFEIGA	HON FOR ASIA	I E OPERATION I	EKMIII (SOP	,
	Type of application:	New Permit	Permit Reissuance	Permit Mo	dification
to the provisi Water Quality	lentification: (Nan lons of Tennessee (y Control Board.)	ne of city, town, ind Code Annotated Se	ustry, corporation ction 69-3-108 and	, individual, et d Regulations (c., applying, according of the Tennessee
Permittee Name (applicant):	Tennesee Waste	water Systems, In	с.		
Permittee Address:	851 Aviation Par	kway, Smyrna, TN	37167		
Official Conta	ict:		Title or Position:		
Mailing Address 851 Aviation	Parkway		City: Smyrna	State: TN	Zip: 37167
Phone numb 615-220-7200	• •		E-mail: jeff.risden@ade	enus.com	H
Optional Con Jeramy Stew			Title or Position: Operations Mai		
Address: 849 Aviation	Parkway		City: Smyrna	State: TN	Zip: 37167
Phone number(s): E-mail: 865-804-5365 Jeramy.stewart@adenus.com				1	
Application 40-0505)	Certification (m	ust be signed in	accordance with	the require	ments of Rule 0400-
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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.					
Name and ti	tle; print or type		Signature		Date
Jen Risuen,	CLO				

CN 1251 (Rev. 03-19)

Permit Number: SOP-_____

Facility identific	ation:	P	xisting ermit lo.	
Facility Name:	ke Haven Treatment Facili	ty	ounty:	Sevier
Facility			atitude:	35° 55′ 51″
Address or 74! Location:	5 Brightston Way, Seviervi		ongitude:	83º 23' 51"
Name and distan	ce to nearest receiving wate	rs: Douglass Lake		
If any other State numbers: N/A	or Federal Water/Wastewat	er Permits have been obtained for	this site, li	st their permit
Name of compan Wastewater Sys		at will operate the permitted syster	n: Tennes :	see
Operator address	s: 849 Aviation Parkway,	Smyrna, TN 37167		
		of Convenience & Necessity (CCN)		
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CN 1251 (Rev. 03-19)

Permit Number: SOP-

Engineering Report (required treatment systems):				□ N/A
Prepared in accordance win Design Criteria for Sewage	th Rule 0400-40-0503 <u>Works</u>	and Secti	on 1.2 of the State	of Tennessee
Attached, or Previously submitted and e	entitled:	Approve	ed? Yes. Date:	□No
Operation and Maintenance In	spection Schedule Sub	mitted:		_
	•	Approve	ed? Yes. Date:	No
		1	10.73	
Wastewater Collection Syste	m:			□ N/A
System type (i.e., gravity, low p small diameter gravity/pressur	e collection			
System Description: SDR 17 PV	C pressure pipe rangir	g from 3"	Ø to 6"Ø and requi	red fittings
Describe methods to prevent a failures, equipment failures, he			_	es (i.e., power
In the event of a system failure Notification	describe means of op	erator not	tification: Cellular To	elemetry
List the emergency contact(s) (name/phone): Jeramy	Stewart -	865-804-5365	***
For low-pressure systems, who or grinder pumps (list all conta				
Approximate length of sewer (e	excluding private service	e lateral):	As required	
Number/hp of lift stations: As r	equired/0.5 HP Num	ber/hp of	lift pumps /	
Number/volume of low pressur	re and or grinder pum	tanks	/	
Number/volume septic tanks			ed/varies	
Attach a schematic of the collect				
If this is a satellite sewer and yo				
section, listing tie-in points to the necessary):	he sewer system and t	neir locati	on (attach additiona	al sheets as
<u>Tie-in Point</u>	Latitude (xx.xxx	<u>x°)</u>	Longitude (x	(x.xxxx°)
N/A				-
				10:10

Permit Number: SOP-____

Land Application Treatment System:	
Type of Land Application Treatment System: Drip Spray Other, explain:	
Type of treatment facility preceding land application (recirculating media filters, lagoons, or	ther,
etc.): Recirculating Media Filter	
Attach a treatment schematic. 🔀 Attached	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., p	ower
failures, equipment failures, heavy rains, etc.): Cellular Telemetry Notification	
For New or Modified Projects:	
Name of Developer for the project: LHSewer100 LLC	
Developer address and phone number: 209 E Main St, Sevierville, TN (404-579-0044)	
For land application, list: Proposed acreage involved: 12.40 ± Acres	
Inches/week gpd/sq.ft loading rate to be applied: 0.2 GPD/SF	
Is wastewater disinfection proposed?	
Yes Describe land application area access:	***************************************
No Describe how access to the land application area will be restricted: Fence	
Attach required additional Engineering Report Information (see website for more	
information)	
Topographic map (1:24,000 scale presented at a six inch by six-inch minimum size) show	
the location of the project including quadrangle(s) name(s) GPS coordinates, and latitude	and
longitude in decimal degrees should also be included.	
Scaled layout of facility showing the following: lots, buildings, etc. being served, the	
wastewater collection system routes, the pretreatment system location, the proposed la	
application area(s), roads, property boundaries, and sensitive areas such as streams, lake	es,
springs, wells, wellhead protection areas, sinkholes and wetlands.	
Soils information for the proposed land disposal area in the form of a Water Resources	
Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soi	ls
information should include soil depth (borings to a minimum of 4 feet or refusal) and soi	I
profile description for each soil mapped.	
Topographic map of the area where the wastewater is to be land applied with no greate	er
than ten-foot contours presented at a minimum size of 24 inches by 24 inches.	
Describe alternative application methods based on the following priority rating: (1)	
connection to a municipal/public sewer system, (2) connection to a conventional subsurfa	ace
disposal system as regulated by the Division of Groundwater Protection, and/or (3) land	
application.	

CN 1251 (Rev. 03-19) RDA 2366

Permit Number: SOP-____

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 0400-45-06-	⊠ N/A
.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 s	masifical by the
Department, consist of the area lying within a one-mile radius or an area defined by us	
under 0400-45-0609 of the Drip Dispersal System site or facility, and shall include, but r	
general surface geographic features, general subsurface geology, and general demographed	
features within the area. Attach to this part of the application a general characterizat	ion 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 past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and present groundwater uses as well as the general past and past and present groundwater uses as well as the general past and pas	
flow direction and general water quality.	groundwater
A general description of the population and cultural development within the AOR (i.e.	
commercial, residential or mixed)	agricultural,
Nature of injected fluid to include physical, chemical, biological or radiological characte	eristics.
If groundwater is used for drinking water within the area of review, then identify and k	
topographic map all groundwater withdrawal points within the AOR, which supply publi	
drinking water systems. Or supply map showing general location of publicly supplied w	ater for the
area (this can be obtained from the water provider)	
If the proposed system is located within a wellhead protection area or source water pr	otection area
designated by Rule 0400-45-0134, show the boundary of the protection area on the fa	
Description of system, Volume of injected fluid in gallons per day based upon design fl	ow, including
any monitoring wells	
Nature and type of system, including installed dimensions of wells and construction m	aterials
Pump and Haul:	⊠ 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	e:
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., pequipment failures, heavy rains, etc.):	oower failures,

CN 1251 (Rev. 03-19)

Permit Number: SOP-_____

Holding Ponds (for non-domestic wastewater only):	⊠ N/A
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?	No
If so, describe disposal plan:	-
Is the pond ever dewatered? Yes No	
If so, describe the purpose for dewatering and procedures for disposal of waste sludge:	ewater and/or
Is(are) the pond(s) aerated? Yes No	Henric - He
Volume of pond(s): gal. Dimensions:	
Is the pond lined (Note if this is a new pond system it must be lined for SOP cover Otherwise, you must apply for an Underground Injection Control permit.)?	
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)?	No
If so, provide location information and describe monitoring protocols (attach additionecessary):	ional sheets as

Permit Number: SOP-_____

Mobile Wash Operations:				⊠ N/A
Individual Operator		Fleet Opera	ation Operator	
Indicate the type of equipme	nt, vehicle, or :			ormal
operations (check all that ap	ply):		•	
Cars		Parking Lot	(s): sq. ft.	
Trucks		Windows:	sq. ft.	
Trailers (Interior washing of	dump-trailers,	Structures ((describe):	
or tanks, is prohibited.)		Structures ((describe).	
Other (describe):				
Wash operations take place a	nt (check all tha	it apply):		
Car sales lot(s)		Public park		
Private industry lot(s)		Private pro	perty(ies)	
County(ies), list:		Statewide		
Wash equipment description				
Truck mounted		Trailer mou		
Rinse tank size(s) (gal.):			s size(s) (gal.):	
Collection tank size(s) (gai.):		Number of tan	151	
Pressure washer:		i (rated)	gpm (rated)	
☐ gas powere				
Vacuum system manufacturer/				ches Hg
Describe any other method or	system used to d	contain and colle	ect wastewater:	
List the public sewer system wh	ere you are per	mitted or have v	written permission	to discharge
waste wash water (include a	copy of the peri	nit or permissio	n letter):	
Are chemicals pre-mixed, prior	to arriving at wa	sh location?	Yes No	
Describe all soaps, detergents, or other chemicals used in the wash operation (attach				
additional sheets as necessar	y):			
Chemical name:	Manufa	cturer:	Primary CAS No.	or Product No.

APPLICATION FOR A STATE OPERATION PERMIT (SOP) INSTRUCTIONS

<u>Purpose of this form</u> A completed SOP application must be submitted to obtain SOP coverage. This permit is required to operate a 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, before an existing permit expires, or when renewing a permit.

<u>Complete the form</u> 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 refer to Appendix 1-D of the state <u>Design Criteria for Sewage Works</u> for more information. The application will be considered incomplete without supplying all of the required information, Engineering Reports, and an original signature.

<u>Permittee Identification/Facility Identification</u> 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, and list all current areas of operation by city and county.

<u>Wastewater Collection System</u> These types of systems require engineering reports, refer to Appendix 1-D of the state <u>Design Criteria for Sewage Works</u> for more information.

<u>Land Application Treatment System</u> These types of systems require engineering reports, refer to Appendix 1-D of the state <u>Design Criteria for Sewage Works</u> for more information. Public access to the 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.

<u>Pump and Haul</u> These types of systems may require engineering reports, refer to Appendix 1-D of the state <u>Design Criteria for Sewage Works</u> 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. 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

APPLICATION FOR A STATE OPERATION PERMIT (SOP) INSTRUCTIONS - CONTINUED

Tennessee industrial stormwater multi-sector general permit TMSP, refer to the <u>website</u> 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 that apply. Note that this permit covers operations for all 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 applies. 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.

<u>Fees</u> Refer to the TDEC-DWR Environmental Protection Fund Fee Rule 0400-40-11-.02. Links to publications are available on Department of Environment and Conservation, Division of Water Resources webpage and the webpage for the Tennessee Secretary of State.

<u>Submitting the form and obtaining more information</u> Note that this form must be signed by the chief executive officer, owner, or highest-ranking elected official. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit a complete application electronically to <u>water.permits@tn.gov</u> (preferred) or to the appropriate EFO for the county(ies) where the facility is located, addressed to **Attention: DWR, Permit Section.** Please keep a copy for your records.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Barlett	38133	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Dr	38305- 4316	Chattanooga	1301 Riverfront Parkway Suite 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

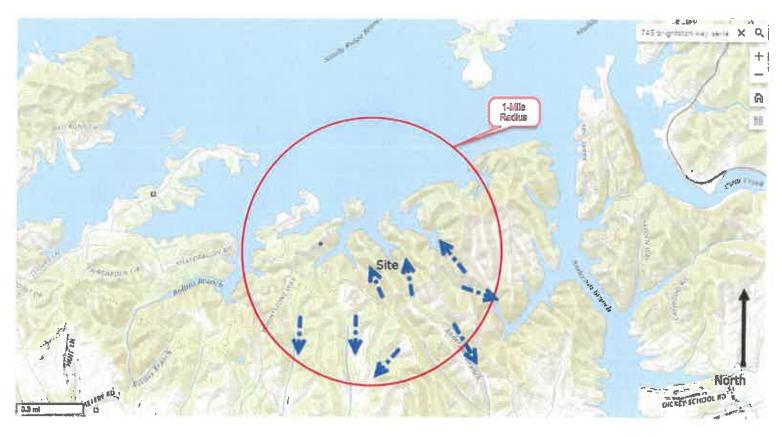
APPLICATION FOR A STATE OPERATION PERMIT (SOP) INSTRUCTIONS - CONTINUED

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 makes a determination of whether to publish a draft permit. 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. The entire process normally takes from five (5) to nine (9) months. 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.

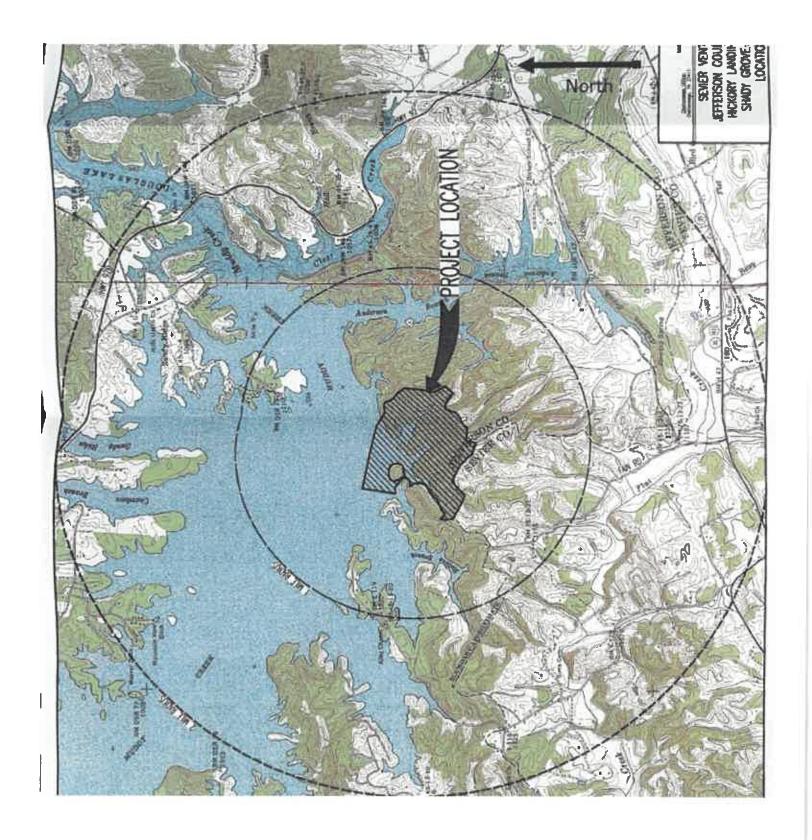
The division is responsible for regulating any activity, which involves a potential discharge in order to protect waters of the State from pollution and to maintain the highest possible standards in water quality.

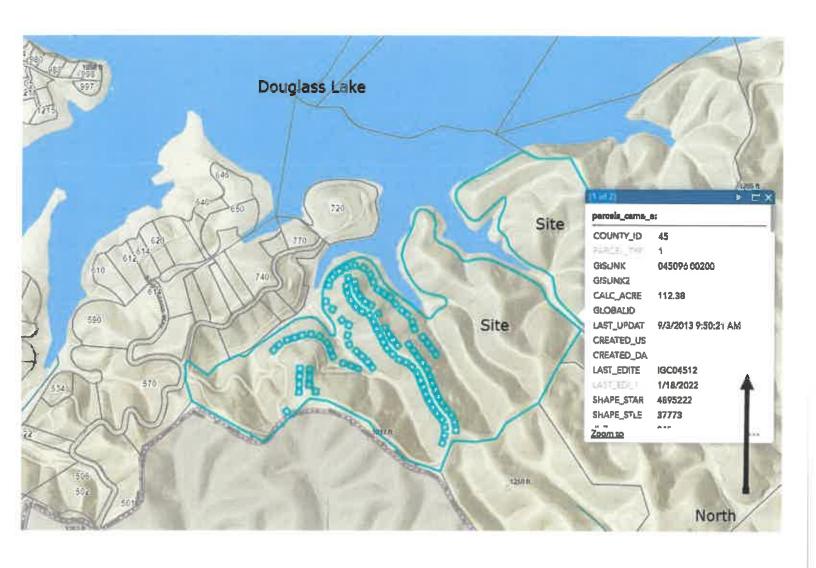
2.0 Area of Review





Area of Review









FEMA MAP 100-Year Floodplain and Elevations



Aerial Map

3.0 Groundwater General Description

The attached USGS maps indicate the Lake Haven Drip Dispersal area drainage flow path is to the north to Sandy Ridge Branch and ultimately discharging into Douglass Lake watershed. See attached maps.

4.0 Population General Description

The majority of the Area of Review is vacant land and large lot residential. Sparse residential subdivisions have been developed but remain spread out due to the lack of wastewater service. See attached aerial map of property.

5.0 Nature of Fluid

Lake Haven TF is currently designed to accommodate typical residential sanitary wastewater effluent after primary treatment has been accomplished by the interceptor tank(s) at the source.

Lake Haven TF Drip Dispersal Expansion will have a peak design discharge of approximately 72,000 gpd.

6.0 General Location of Publicly Supplied Water

Shady Grove Utility District supplies public drinking water within the AOR.
Shady Grove Utility District
830 TN-139, Dandridge, TN 37725
Shady Grove Utility District Information (865) 397-3790

7.0 Description of System

Treated wastewater approximately 72,000 gpd is pumped through ultraviolet disinfection 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.

Dally Flow

Design Daily Flow	72,000 gpd
Daily Flow for Cabin	699 gpd/lot
Number of Buildable Residential Lots	103 lots

Land Application Area

Land Application Area	0.2 gal/sf/day*
Total Area Required	360000 s.f.
or	8.26 acres

^{*} assummed soil absorption rate

Number of Required Zones

Length per zone (@ 5' o.c.)	3990 L.F.
Number of Zones	18.0 Zones
Total Length	72000 L.F.

Land Reserve Area		
Area per lot	50%	S.F./lot
Total Area Required	180000	acres
or	4.13	acres
Total Area Required	540000	s.f.
Total Area Required	12.40	acre

Sand Filter Size

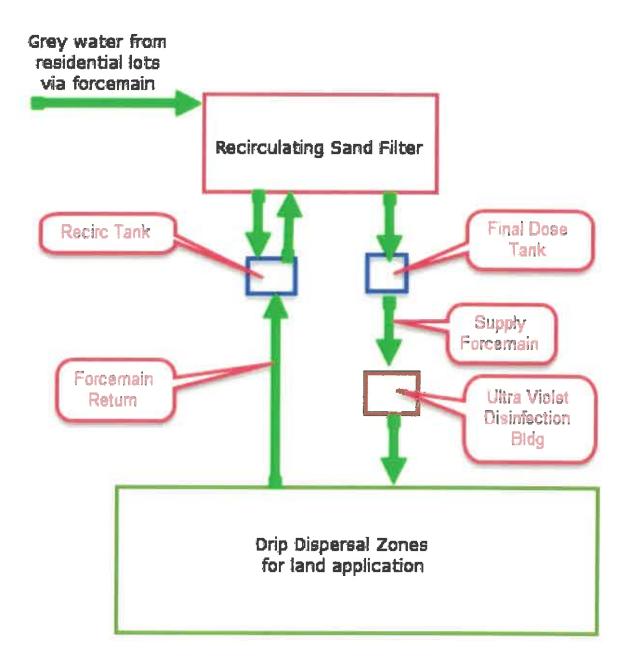
5	gal/S.F./day
72000	gpd
Area Req'd	14400 S.F.
Use Filter No.	2-55' x 132'

8.0 Nature and Type of System

The Lake Haven TF will be permitted for 72,000 GPD wastewater treatment capacity. The wastewater treatment will be accomplished by 2 proposed 55 ft x 132 ft RMFs. The Recirculating Media Filter (RMF) will be the primary treatment.

Disposal Capacity: The ½" drip disposal system will be split into 2-systems. RMF1 will have 9 drip zones at 3,990 lf per zone and RMF2 will have 9 drip zones at 3,990 lf per zone for a total of 18 zones.

9.0 Flow Schematic





STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243-1102

October 10, 2022

Mr. Jeff Risden
Chief Executive Officer
Tennessee Wastewater Systems, Inc.
e-copy: jeff.risden@adenus.com
849 Aviation Pkwy
Smyrna, TN 37167

Subject:

Draft of State Operating Permit No. SOP-22021

Tennessee Wastewater Systems, Inc.

Lake Haven TF

Sevierville, Jefferson County, Tennessee

Dear Mr. Risden:

Enclosed please find one copy of the draft state operating permit, which the Division of Water Resources (the division) proposes to issue. The issuance of this permit is contingent upon your meeting all of the requirements of the Tennessee Water Quality Control Act and the rules and regulations of the Tennessee Water Quality, Oil and Gas Board.

If you disagree with the provisions and requirements contained in the draft permit, you have thirty (30) days from the date of this correspondence to notify the division of your objections. If your objections cannot be resolved, you may appeal the issuance of this permit. This appeal should be filed in accordance with Section 69-3-110, Tennessee Code Annotated.

If you have questions, please contact the Knoxville Environmental Field Office at 1-888-891-TDEC; or, at this office, please contact Mr. Bryan Pope at (931) 224-3098 or by E-mail at Bryan.Pope@tn.gov.

Sincerely,

Brad Harris, P.E.

Manager, Land-Based Systems

Enclosure

cc: Permit File

Knoxville Environmental Field Office

STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243-1102

Permit No. SOP-22021

PERMIT

For the operation of Wastewater Treatment Facilities

In accordance with the provision of Tennessee Code Annotated section 69-3-108 and Regulations promulgated pursuant thereto:

PERMISSION IS HEREBY GRANTED TO

Tennessee Wastewater Systems, Inc. Lake Haven TF Sevierville, Jefferson County, Tennessee

FOR THE OPERATION OF

STEP / STEG recirculating media filter with fenced drip dispersal system located at latitude 35.9342 and longitude -83.3897 in Jefferson County, Tennessee to serve approximately 103 connections by the Lake Haven Treatment Facility. The design capacity of the system .072 MGD and will be dispersed on approximately 9.9 acres of suitable soils.

This permit is issued as a result of the application filed on August 18, 2022, in the office of the Tennessee Division of Water Resources. This permit is contingent on the submission and department approval of construction plans, specifications and other data in accordance with rules of the department. Updated plans and specifications must be approved before any further construction activity.

This permit shall become effective on:	
This permit shall expire on:	
Issuance date:	
for Jennifer Dodd Director	

CN-0729

A. GENERAL REQUIREMENTS

The treatment system shall be monitored by the permittee as specified below:

Parameter	Sample Type	-	Monthly Average	Measurement Frequency
Flow *	Totalizer			Daily
BOD ₅	Grab	45 mg/l	N/A	Once/Year
Ammonia as N	Grab	Report	N/A	Once /Quarter
E. Coli	Grab	941 colonies/100 m	1 N/A	Once /Quarter

No E. Coli monitoring if fields are fenced

Sampling requirements in the table above apply to effluent being discharged to the drip irrigation plots.

This permit allows the operation of a wastewater drip irrigation, treatment, and storage system with disposal of treated wastewater through approved drip dispersal areas. There shall be no discharge of wastewater to any surface waters or to any location where it is likely to enter surface waters. There shall be no discharge of wastewater to any open throat sinkhole. In addition, the drip irrigation system shall be operated in a manner preventing the creation of a health hazard or a nuisance.

The land application component shall be operated and maintained to ensure complete hydraulic infiltration within the soil profile, transmission of the effluent away from the point of application, and full utilization of the soil profile as a portion of the treatment system.

Instances of surface saturation, ponding or pooling within the land application area as a result of system operation are prohibited. Instances of surface saturation, ponding or pooling shall be promptly investigated and noted on the Monthly Operations Report. The report shall include details regarding location(s), determined cause(s), the actions taken to eliminate the issue, and the date the corrective actions were made. Any instances of surface saturation, ponding or pooling not associated with a major precipitation event not corrected within three days of discovery shall be reported to the local Environmental Field Office at that time for investigation. Surface saturation, ponding or pooling resulting in the discharge of treated wastewater into Waters of the State or to locations where it is likely to move to Waters of the State shall be immediately reported to the local Environmental Field Office, unless the discharge is separately authorized by a NPDES permit."

^{*} Report average daily flow for each calendar month.

All drip fields shall be fenced sufficiently to prevent or impede unauthorized entry as well as to protect the facility from vandalism. Fencing shall be a minimum of four feet in height. Fencing shall be constructed of durable materials. Gates shall be designed and constructed in a manner to prevent or impede unauthorized entry. All designs are subject to division approval. Fence shall be installed prior to beginning of operation.

All drip lines shall be buried and maintained 6 to 10 inches below the ground surface.

All new facilities must maintain a minimum 30 day storage capacity for surface spray irrigation systems.

The site shall be inspected by the certified operator or his/her designee, at a minimum, once per fourteen days (default) OR in accordance with an operating and maintenance inspection schedule in the permit administrative file record. The default inspection frequency will apply if an operating and maintenance inspection schedule is not submitted to be a part of the permit administrative file record. The operating and maintenance inspection schedule shall at a minimum evaluate the following via onsite visits or telemetry monitoring or a combination of the two:

- o the condition of the treatment facility security controls (doors, fencing, gates, etc.),
- o the condition of the drip area security controls (doors, fencing, gates, etc.).
- o the condition of the site signage,
- o the operational status of the mechanical parts of the treatment system (pumps, filters, telemetry equipment, etc.)
- o the condition of the UV bulbs (if applicable)
- o the condition of the land application area including the location of any ponding
- o the name of the inspector
- o the description of any corrective actions

Submission of the schedule, or revisions to the schedule, may be submitted to the division electronically. The schedule shall be submitted on or before the effective date of the permit. The permittee is responsible for maintaining evidence that the schedule, or revisions, have been submitted to the division.

B. MONITORING PROCEDURES

1. Representative Sampling

Samples and measurements taken in compliance with the monitoring requirements specified above shall be representative of the volume and nature of the monitored discharge, and shall be taken at the following location(s):

Effluent to drip irrigation plots.

2. Test Procedures

Unless otherwise noted in the permit, all pollutant parameters shall be determined according to methods prescribed in Title 40, CFR, Part 136.

C. **DEFINITIONS**

The "daily maximum concentration" is a limitation on the average concentration, in milligrams per liter, of the discharge during any calendar day.

The "monthly average concentration", other than for E. coli bacteria, is the arithmetic mean of all the composite or grab samples collected in a one-calendar month period.

A "grab sample" is a single influent or effluent sample collected at a particular time.

For the purpose of this permit, "continuous monitoring" means collection of samples using a probe and a recorder with at least one data point per dosing cycle.

A "quarter" is defined as any one of the following three-month periods: January 1 through March 31, April 1 through June 30, July 1 through September 30, and/or October 1 through December 31.

"Wastewater" for the purpose of this permit means "sewage" as defined in TCA 69-3-103

D. REPORTING

1. Monitoring Results

Monitoring results shall be recorded consistent with the general requirements imposed in Part A above OR in accordance with the operating and maintenance inspection schedule in the permit administrative file record and submitted quarterly.

Submittals shall be postmarked no later than 15 days after the completion of the reporting period. A copy should be retained for the permittee's files. Monitoring results shall be reported in a format approved by the division. Operation reports and any communication regarding compliance with the conditions of this permit must be sent to:

Division of Water Resources

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Sampling results may be submitted electronically to: <u>DWRWW.Report@tn.gov</u>.

The first operation report is due on the 15th of the month following the quarter containing the permit effective date. Until the construction of the treatment system is complete and the treatment system is placed into operation, operational reports shall report "monitoring not required".

2. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in Rule 0400-40-05-07(2)(h)2, the results of such monitoring shall be included in the calculation and reporting of the values required in the Quarterly Operation Report. Such increased frequency shall also be indicated.

3. Falsifying Reports

Knowingly making any false statement on any report required by this permit may result in the imposition of criminal penalties as provided for in Section 69-3-115 of the Tennessee Water Quality Control Act.

4. Signatory Requirement

All reports or information submitted to the commissioner shall be signed and certified by the persons identified in Rules 0400-40-05-.05(6)(a-c).

PART II

A. GENERAL PROVISIONS

1. Duty to Reapply

The permittee is not authorized to discharge after the expiration date of this permit. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information and forms as are required to the Director of Water Resources (the "Director") no later than 180 days prior to the expiration date.

2. Right of Entry

The permittee shall allow the Director, or authorized representatives, upon the notification of permittee and presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or where records are required to be kept under the terms and conditions of this permit, and at reasonable times to copy these records;
- b. To inspect at reasonable times any monitoring equipment or method or any collection, treatment, pollution management, or discharge facilities required under this permit; and

c. To sample at reasonable times any discharge of pollutants.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Water Resources.

4. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems (and related appurtenances) for collection and treatment which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory and process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. Backup continuous pH and flow monitoring equipment are not required.

The monitoring frequency stated in this permit shall not be construed as specifying a minimum level of operator attention to the facility. It is anticipated that visits to the treatment facility by the operator will occur at intervals frequent enough to assure proper operation and maintenance, but in no case less than one visit every fourteen days OR in accordance with an operating and maintenance inspection schedule in the permit administrative file record. If monitoring reports, division's inspection reports, or other information indicates a problem with the facility, the permittee may be subject to enforcement action and/or the permit may be modified to include increased parameter monitoring, increased monitoring frequency or other requirements as deemed necessary by the division to correct the problem. The permittee shall ensure that the certified operator is in charge of the facility and observes the operation of the system frequently enough to ensure its proper operation and maintenance regardless of the monitoring frequency stated in the permit

Dilution water shall not be added to comply with effluent requirements.

5. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

6. Severability

The provisions of this permit are severable. If any provision of this permit due to any circumstance, is held invalid, then the application of such provision to other circumstances and to the remainder of this permit shall not be affected thereby.

7. Other Information

If the permittee becomes aware that he failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, then he shall promptly submit such facts or information.

B. CHANGES AFFECTING THE PERMIT

1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility.

2. Permit Modification, Revocation, or Termination

- a. This permit may be modified, revoked and reissued, or terminated for cause as described in Section 69-3-108 (h) of the Tennessee Water Quality Control Act as amended.
- b. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

3. Change of Ownership

This permit may be transferred to another person by the permittee if:

- a. The permittee notifies the Director of the proposed transfer at least 30 days in advance of the proposed transfer date;
- b. The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage, and liability between them; and
- c. The Director, within 30 days, does not notify the current permittee and the new permittee of his intent to modify, revoke or reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

4. Change of Mailing Address

The permittee shall promptly provide to the Director written notice of any change of mailing address. In the absence of such notice the original address of the permittee will be assumed to be correct.

C. NONCOMPLIANCE

1. Effect of Noncompliance

Any permit noncompliance constitutes a violation of applicable State laws and is grounds for enforcement action, permit termination, permit modification, or denial of permit reissuance.

2. Reporting of Noncompliance

a. 24-Hour Reporting

In the case of any noncompliance which could cause a threat to public drinking supplies, or any other discharge which could constitute a threat to human health or the environment, the required notice of non-compliance shall be provided to the appropriate Division environmental field office within 24 hours from the time the permittee becomes aware of the circumstances. (The environmental field office should be contacted for names and phone numbers of emergency response personnel.)

A written submission must be provided within five days of the time the permittee becomes aware of the circumstances unless this requirement is waived by the Director on a case-by-case basis. The permittee shall provide the Director with the following information:

- i. A description of the discharge and cause of noncompliance;
- ii. The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- iii. The steps being taken to reduce, eliminate, and prevent recurrence of the non complying discharge.

b. Scheduled Reporting

For instances of noncompliance which are not reported under subparagraph 2.a. above, the permittee shall report the noncompliance on the Quarterly Operation Report. The report shall contain all information concerning the steps taken, or planned, to reduce, eliminate, and prevent recurrence of the violation and the anticipated time the violation is expected to continue.

3. Overflow

- a. "Overflow" means the discharge of wastewater from any portion of the collection, transmission, or treatment system other than through permitted outfalls.
 - b. Overflows are prohibited.
 - c. The permittee shall operate the collection system so as to avoid overflows.
- d. No new or additional flows shall be added upstream of any point in the collection system, which experiences chronic overflows (greater than 5 events per year) or would otherwise

overload any portion of the system. Unless there is specific enforcement action to the contrary, the permittee is relieved of this requirement after: 1) an authorized representative of the Commissioner of the Department of Environment and Conservation has approved an engineering report and construction plans and specifications prepared in accordance with accepted engineering practices for correction of the problem; 2) the correction work is underway; and 3) the cumulative, peak-design, flows potentially added from new connections and line extensions upstream of any chronic overflow point are less than or proportional to the amount of inflow and infiltration removal documented upstream of that point. The inflow and infiltration reduction must be measured by the permittee using practices that are customary in the environmental engineering field and reported in an attachment to a Monthly Operating Report submitted to the local TDEC Environmental Field Office on a quarterly basis. The data measurement period shall be sufficient to account for seasonal rainfall patterns and seasonal groundwater table elevations.

e. In the event that more than 5 overflows have occurred from a single point in the collection system for reasons that may not warrant the self-imposed moratorium or completion of the actions identified in this paragraph, the permittee may request a meeting with the Division of Water Resources EFO staff to petition for a waiver based on mitigating evidence.

4. Upset

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the permittee demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
- ii. The permitted facility was at the time being operated in a prudent and workmanlike manner and in compliance with proper operation and maintenance procedures;
- iii. The permittee submitted information required under "Reporting of Noncompliance" within 24-hours of becoming aware of the upset (if this information is provided orally, a written submission must be provided within five days); and
- iv. The permittee complied with any remedial measures required under "Adverse Impact."

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the waters of Tennessee resulting from noncompliance with this permit, including such accelerated

or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

6. Bypass

- a. "Bypass" is the intentional diversion of wastewater away from any portion of a treatment facility.
- b. Bypasses are prohibited, unless:
- i. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
- iii. For anticipated bypass, the permittee submits prior notice, if possible at least ten days before the date of the bypass; or
- iv. For unanticipated bypass, the permittee submits notice of an unanticipated bypass within 24 hours from the time that the permittee becomes aware of the bypass.
- c. A bypass that does not cause effluent limitations to be exceeded may be allowed only if the bypass is necessary for essential maintenance to assure efficient operation.
- d. "Severe property damage" when used to consider the allowance of a bypass means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

D. LIABILITIES

1. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Notwithstanding this permit, the permittee shall remain liable for any damages sustained by the State of Tennessee, including but not limited to fish kills and losses of aquatic life and/or wildlife, as a result of the discharge of wastewater to any surface or subsurface waters. Additionally, notwithstanding this Permit, it shall be the responsibility of the permittee to conduct its wastewater treatment and/or discharge activities in a manner such that public or private nuisances or health hazards will not be created.

2. Liability Under State Law

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law.

PART III OTHER REQUIREMENTS

A. CERTIFIED OPERATOR

The waste treatment facilities shall be operated under the supervision of a Biological Natural System certified wastewater treatment operator and collection system shall be operated under the supervision of a the grade I certified collection system operator in accordance with the Water Environmental Health Act of 1984.

B. PLACEMENT OF SIGNS

The permittee shall place a sign at the entrance to the land application area if fenced or all reasonsable approaches to the land application area. The sign should be clearly visible to the public. The minimum sign size should be two feet by two feet (2' x 2') with one inch (1") letters. The sign should be made of durable material

RECLAIMED WASTEWATER
DRIP IRRIGATION
(PERMITTEE'S NAME)
(PERMITTEE'S PHONE NUMBER)
TENNESSEE DIVISION OF WATER
RESOURCES

Error! MergeField was not found in header record of data source.

PHONE NUMBER: 1-888-891-8332

No later than sixty (60) days from the effective date of the permit, the permittee shall have the above sign(s) on display in the location specified. New facilities must have the signs installed upon commencing operation.

C. ADDITION OF WASTE LOADS

The permittee may not add wasteloads to the existing treatment system without the knowledge and approval of the division.

D. SEPTIC (STEP) TANK OPERATION

The proper operation of this treatment system depends, largely, on the efficient use of the septic tank. The solids that accumulate in the tank shall be removed at a frequency that is sufficient to insure that the treatment plant will comply with the discharge requirements of this permit.

E. SEPTAGE MANAGEMENT PRACTICES

The permittee must comply with the provisions of Rule 0400-48-01-.22. If the septage is transported to another POTW for disposal, the permittee shall note the amount of septage wasted in gallons and name of the facility the hauler intends to use for disposal of the septage on the monthly operation report. Sludge or any other material removed by any treatment works must be disposed of in a manner which prevents its entrance into or pollution of any surface or subsurface waters. Additionally, the disposal of such sludge or other material must be in compliance with the Tennessee Solid Waste Disposal Act, TCA 68-31-101 et seq. and Tennessee Hazardous Waste Management Act, TCA 68-46-101 et seq.

F. OWNERSHIP OF THE TREATMENT FACILITIES

- a. The permittee shall own the treatment facilities (and the land upon which they are constructed) including the land to be utilized for wastewater dispersal. A perpetual easement (properly recorded) may be accepted in lieu of ownership. Evidence of ownership of the treatment facility land application site(s) and/or a copy of the perpetual easement(s) must be furnished to the division for approval prior to construction of the wastewater collection and dispersal system. Signed agreements stating the intent of the existing landowner to transfer ownership may be provided to support permit issuance. Evidence of such ownership or access rights must be provided to, and approved by, the Commissioner prior to commencement of operation.
- b. Where the treatment facility serves private homes, condominiums, apartments, retirement homes, nursing homes, trailer parks, or any other place where the individuals being served have property ownership, rental agreements, or other agreements that would prevent their being displaced in the event of abandonment or noncompliance of the sewerage system, ownership of the treatment facilities must be by a municipality, a public utility, a wastewater authority, or a privately owned public utility (having a Certificate of Convenience and Necessity from the Tennessee Public Utility Commission) or another public agency.

Attachment 1

RATIONALE

Tennessee Wastewater Systems, Inc. STATE OPERATION PERMIT NO. SOP-22021 Sevierville, Jefferson County, Tennessee

Permit Writer: Mr. Bryan Pope

FACILITY CONTACT INFORMATION:

Mr. Jeff Risden Chief Executive Officer Phone: Phone: (615) 220-7171

jeff.risden@adenus.com Fain Road, Brightstone Way Smyrna, TN 37167

Activity Description: Treatment of domestic wastewater via a decentralized waste water

system to support construction of STEP / STEG fenced drip dispersal

with Recirculating Media Filter,

Facility location: Latitude 35.9342 and Longitude -83.3897

Name of the nearest stream: No discharge allowed.

Treatment system: Septic tanks, effluent collection system, recirculating media filter

with fenced drip irrigation.

Permit period: This permit will be issued for a five year period effective from the

issuance date on the title page.

Terms & Conditions: BOD₅ is a standard measure of sewage strength. The 45 mg/L daily

maximum limit is the required treatment standard for domestic waste water in Tennessee. Ammonia and BOD5 reporting serve to demonstrate the treatment system is meeting minimum treatment standards. Land application, versus stream discharge, enables reduced monitoring frequency for these parameters. Narrative conditions for drip disposal and septage management are proposed in support of proper system operation to prevent runoff to streams and avoidance of nuisance conditions. E.coli limits apply when the diposal area is not fenced.

Financial Security: Municipalities and Utility Districts are government entities exempt from

the financial security requirement in TCA 69-3-122. (or) Privately-

owned public utilities provide financial security to the Public Utility Commission to comply with TCA 69-3-122.

Annual Maintenance Fee:

An annual maintenance fee for the permit will apply after permit issue and upon receipt of an invoice.

Items Requisite for Operation:

This draft permit proposes terms and conditions for planning purposes and to seek public comment on the potential water quality impacts of the proposed activity. Actual operation of the sewerage system is contingent on the following items (items may occur in any order):

- Approval of sewerage system construction plans and specifications per TCA 69-3-108(i),
- Final construction inspection and submission of O &M manual per Rule 0400-40-02-.09,
- Issuance of a Certificate of Convenience and Necessity (CCN) by the Public Utility Commission,
- Utility ownership of sewerage system assets consistent with Rule 0400-40-16-.02(8). Sewerage system assets broadly consist of those units integral to the collection, treatment and disposal of both the solid and liquid component of sewage (i.e. septic tanks and pumps, collection lines, treatment system and drip irrigation area and related appurtenances), and
- Final issue of the permit.

SOP-22021



From: bryan.pope@tn.gov
To: Jeff Risden
Cc: bryan.pope@tn.gov

Subject: TDEC-DWR - Notice of Complete Permit Application
Date: Monday, September 26, 2022 10:30:10 AM

*** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ***

State of Tennessee
Department of Environment and Conservation
Division of Water Resources

Permit Number SOP-22021

Permittee Name Adenus Solutions Group, LLC

Project Name Lake Haven TF

The Division of Water Resources (the division) acknowledges the receipt of a permit application in our office on 18-AUG-22.

Rules of the Tennessee Department of Environment and Conservation, Division of Water Resources, Chapter 0400-40-5-.05 (2): Permit Application, Issuance, state, in part: "The applicant will be provided notice of completeness of the application and re-submitted material within 30 days of a determination that such material constitutes a complete application. This provision does not preclude the commissioner from later requesting additional material that subsequent to the notice of completeness is determined to be necessary for permit processing."

Your application was deemed complete on 26-SEP-22.

Details regarding this permit application and associated documents can be viewed at: https://dataviewers.tdec.tn.gov/dataviewers/f?p=9034:34051::::34051:P34051 PERMIT NUMBER:SOP-22021

If you have questions, please contact Bryan Pope at 931-224-3098 or by E-mail at bryan.pope@tn.gov.

Thank you for helping us protect Tennessee waters.

We accept and encourage electronic document submittals via Water.Permits@tn.gov

Please tell us how you think we're doing by completing TDEC Customer Satisfaction Survey at: https://www.surveymonkey.com/r/TDECSurvey

WATER AND WASTEWATER OPERATOR CERTIFICATION BOARD

NAME AND MAILING ADDRESS

Jeramy L. Stewart 2642 Mayner Lane Kodak Tennessee 37764 STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
WATER AND WASTEWATER OPERATOR CERTIFICATION BOARD

LD. NO. 15952 EXPIRATION DATE 12/31/2022

THIS IS TO CERTIFY THAT AGRIC

Jeramy L., Stewart

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

RNS

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

Confidential Exhibit 23A

Confidential Exhibit 23B

Confidential Exhibit 23C

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

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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
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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	301
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Tennessee Wastewater Systems, Inc. Account Listing

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

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40	Expenses:710		Expense	710
	· Operating Expenses:715 · Purchased Power		Expense	715
5	 Operating Expenses:716 · Telemetry Monitoring 		Expense	718
4	Expenses:718		Expense	718
	 Operating Expenses:720 • Materials and Supplies 		Expense	220
5	Expenses:731 ·		Expense	731
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4	Expenses: 736 · Contractual		Expense	736
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Tennessee Wastewater Systems, Inc. Account Listing February 8, 2021

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401		 Operating Expenses:750 - Transportation Expense:750.3 - Registration Renewal 	Expense	750.3
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104		 Operating Expenses:750 · Transportation Expense:750.2 · Vehicle Maintenance 	Expense	750.2
4	· Operating Expenses:755	Insurance	Expense	755
5	· Operating Expenses:755	Instrumce.755.10 · Dental Insurance	Expense	755.10
5	· Operating Expenses:75	· Insurance:755.8 · Auto Insurance	Expense	755.8
401	· Operating Expenses:75	· İnsurance:755.9 · Health Insurance	Expense	755.9
4 04	· Operating Expenses:76	Regulatory Commission Exp.	Expense	785
401	· Operating Expenses:76	 Regulatory Commission Exp.:765.1 · Rate Case Work 	Expense	785.1
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5	· Operating Expenses:775	Miscellaneous	Expense	775.26
4	· Operating Expenses:775	Miscellaneous	Expense	775.25
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5	· Operating Expenses:77	Miscellaneous	Expense	775.112
5	· Operating Expenses:775	Miscellaneous	Expense	775.113
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Tennessee Wastewater Systems, Inc. Account Listing February 8, 2021

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Account	Туре	Acent. #
426 · Misc. Nonutility Expenses:246.91 · Lodging	Expense	246.91
426 · Misc. Nonutifity Expenses:428.9 · 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	Ежелзе	426.2
426 • Misc. Norwility Expenses:426.3 • Miscellaneous	Expense	426.3
426 · Misc. Norudility Expenses:426.4 · Parking	Expense	426.4
426 • Misc. Norutility Expenses:426.5 · Developer Income Reimbursement	Expense	426.5
428 · Misc. Norudility Expenses:426.7 · Construction Expense	Expense	428.7
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 Discrepancles	Expense	00699
421.6 · Misc. Income	Other Income	421.6
90100 - Purchase Orders	Non-Posting	90100
90200 · Sales Orders	Non-Posting	90200

Confidential Exhibit 26

Confidential Exhibit 28

TPUC No. 2 Section 3 First Revised Page 6

WASTEWATER UTILITY SERVICE

·			
Service Territory	County	TPUC Docket #	Rate Class
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	XX-XXXXX	RATE CLASS 1 (T)
Hilltop Ridge	Montgomery	xx-xxxxx	RATE CLASS 1 (T)
	TATOTINGOTTIOLY	AMI-AMMAMA	TOTTE CLASS I (1)

Issued:

Effective:

Issued By: Matthew Nicks, President

WASTEWATER UTILITY SERVICE

SECTION 4 – RESIDENTIAL RATES SHEET

	Base	Escrow	Bonding	Environmental Rider	Legal Rider (D)	Tot	al
Rate Class 1	\$ 40.48	\$ 7.27	\$0.12 (R)	\$3.76	0	\$	51.63(R)
Rate Class 2	\$ 40.48	\$ 7.27	\$0.12 (R)	\$3.76	0	\$	51.63(R)
Rate Class 5	\$ 36.66	\$ 5.69	\$0.12 (R)	\$3.76	0	\$	46.23(R)
Rate Class 6	\$ 36.66	\$ 5.69	\$0.12 (R)	\$3.76	0	\$	46.23(R)
Rate Class 9	\$ 20.55	\$ 3.39	\$0.12 (R)	\$3.76	0	S	27.82*(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 0.0089100097 (R) 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: June 29, 2022

Effective: August 1, 2022

Issued by: Matthew Nicks, President

Effective: July 1, 2020

WASTEWATER UTILITY SERVICE

Service Territory

County TPUC Docket #

Scales Project Williamson 14-00006

Clovercroft Acres Williamson 14-00062

Nolensville Catholic Church Williamson 21-00096

Derby Meadows Robertson 22-00074

Lake Haven Jefferson XX-XXXXX (T)

Issued:

May 14, 2020

Issued by: M

Matthew Nicks, President

Effective: July 1, 2020

WASTEWATER UTILITY SERVICE

COMMERCIAL RATES SHEET CABINS

The monthly sewer charge per customer is based on the square footage of the cabin as recorded with the Register of Deeds office. (N)

		Base	Escrow	Bonding	Environmental Rider	Legal Rider	Total
		Dase	T3010 W	Douging	Kidei	MIGGI	TOTAL
Small 0-2000	(N)	\$60.85(N)	\$13.15(I)	\$0.11	\$3.76	\$0.45	\$78.32(N)
Medium 2001-4000	(N)	\$69.68(N)	\$16.32(I)	\$0.11	\$3.76	\$0.45	\$90.32(N)
Large 4001-6000	(N)	\$82.44(N)	\$19.56(I)	\$0.11	\$3.76	\$0.45	\$106.32(N)
Extra Large 6001+	(N)	\$102.07(N)	\$22.93(I)	\$0. 11	\$3.76	\$0.45	\$129.32(N)

(D)

Fees: (M)*
Nonpayment – 5%
Reconnection - \$50
Disconnection - \$40
Returned Check - \$25

Returned ACH - \$25 (N)

Credit Card Convenience Fee: 3%

Issued: May 14, 2020

Issued by: Matthew Nicks, President

^{*} Moved from Section 6, Eleventh Revised Page 3

	Projected Income Statement	Brank								
Line No. Item		Year 1	Ϋ́	Year 2	Xe.	Year 3	Year 4	4	Year 5	
Number of Sewer Customers			4		28	103	œ	103		103
Access Fres Number of lots with sewer access but no customer Access fre revenue (\$120 x lots)	ess but no customer s)	\$ 7,5	63 7,560.00 \$	23 2,760.00	23 100 \$		°,	0	v)	0,
Operating Revenue										
1 Service Revenue		37.6	37.646.40 S	75 292 80	8	96 920 AB	v	96 939 48	·	DE 020 A0
2 Re-connect Fees								ot contain	, 4	DE-251
3 Returned Check Charge		- 4/3	1		- VI	7.5	· •/1		· •	
4 Late Payment Charge		• •	1		· 45	3.1	· ss	0 1	· 40-	0.3
LP)	Total Operating Revenue (sum of Line 1 through 4)	\$ 37,6	37,646.40 \$	75,292.80	\$ 087	96,939.48	<i>د</i> ه	96,939.48	45	96,939.48
Operating Expenses 1										
6 Total salaries and wages and payroll taxes (employees only)	ayroll taxes (employees only)	\$ 1,0	1,000.00 \$	1,500.00	\$ 00	2,000.00	S	2,000.00	45	2,000.00
7 Outside labor expenses (non-employee)	mployee)	s	1		45	•	*	•	· s/s	,
8 Administrative and office expenses	NSes	\$ 6	\$ 00.009	900.00	\$ 00	1,200.00	\$	1,200.00	·s	1,200.00
9 Maintenance and repair expense ²	se ²	\$ 1,0	\$ 00.000,1	1,200.00	\$ 00	1,500.00	\$	1,500.00	4/1-	1,500.00
10 Purchased water		s	,		٠.	1	45	•	₩.	
11 Purchased sewerage treatment		5	٠		•	•	4	1	5	20
12 Electric power expense		\$	\$ 00.008	1,000.00	\$ 00.	1,300.00	\$	1,300.00	\$	1,300.00
13 Chemical expense		ς,	\$		↔	•	s	-	₩.	•
14 Testing fees		\$ 1,2	1,200.00 \$	1,500.00	\$ 00.	1,500.00	\$	1,500.00	s	1,500.00
15 Transportation expense		th th	500.00	600.00	.00 \$	700.00	\$	800.00	s	900,00
16 Other operating expense		s,	•		\$	•	s	2.5	45	•
Telemetry		\$ 1,3	1,320.00 \$	1,320.00	8	1,320.00	s	1,320.00	s	1,320.00
18 Total operation and	Total operation and maintenance expenses (sum of tine 6 through Line 17)	\$ 6,4	6,420.00 \$	8,020.00	8	9,520.00	\$	9,620.00	s,	9,720.00
19 Annual depreciation expense		\$ 75,5	5,538.46 \$	75,538.46	46 \$	75,538.46	45	75,538.46	s	75,538.46
20 Property taxes paid on utility property	roperty	\$ 1,5	1,500.00 \$	1,500.00	\$ 00	1,500.00	s	1,500.00	43	1,500.00
21 Franchise (gross receipts tax)		\$ 3,0	3,000.00 \$	3,000.00	8	3,000.00	\$	3,000.00	·/s	3,000.00
22 Annual NCUC regulatory fee	701	\$ 1,5	\$ 76.992,1	3,199.94	왕	4,119.93	S	4,119.93	-1/3	4,119.93
23 Tot	Total operating expenses (sum of Line 18 through Line 22)	\$ 88,0	88,058.43 \$	91,258.40	\$ 04.	93,678.39	\$	93,778.39	₩.	93,878.39
24 Income taxes		v.	1	·	45	•	4/1	.lit	45	
25 State income taxes		*		•	\$	•	·	•	- 4/1	19
26 Federal Income taxes		45	· S1	•	•	,	v	1	. •	
27 Total income taxes		٠.	1	•	- 40		· 43	٠	· 45	ą •

3,061.09

3,161.09 \$

\$ (42,852.03) \$ (13,205.60) \$ 3,261.09 \$

28 Net operating Income

1,000.00	2,061.09
1,000.00 \$	2,161.09 \$
45	s
1,000.00	2,261.09
₩.	\$
1,000.00	(14,205.60)
\$	\$
1,000.00	(43,852.03)
29 Interest expense	30 Net income

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