

Tennessee Department of Environment and Conservation

Tennessee Department of Environment and Conservation Division of Water Pollution Control William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243 (615) 532-0625 APPLICATION FOR A STATE OPERATION PERMIT (SOP) Type of application: New Permit Permit Reissuance Permit Modification Permittee Identification: (Name of city, town, industry, corporation, individual, etc., applying, according to the provisions of Tennessee Code Annotated Section 69-3-108 and Regulations of the Tennessee Water Quality Control Board.)			
APPLICATION FOR A STAT	<u> TE OPERATION PER</u>	MIT (SOP	1) 1/4
Type of application: New Permit	☑ Permit Reissuance [] Permit Modi	ification
	try, corporation, individence of the second structure of the second seco	ual, etc., ap as of the Te	plying, according to nnessee Water Quality
Permittee Name Tennessee Wastewater Systems, Inc. (applicant):			
Permittee Address: 849 Aviation Parkway Smyrna, TN 37167			
Official Contact: Charles Hyatt	Title or Position: President		
Mailing Address:	City:	State:	Zip:
849 Aviation Parkway	Smyrna	TN	37167
Phone number(s): 615-220-7200	E-mail:		
Optional Contact:	Title or Position:		
Brian Carter	Operator		
Address:	City:	State:	Zip:
849 Aviation Parkway	Smyrna	TN	37167
Phone number(s): 615-220-7200	E-mail:		
Application Certification (must be signed in accorda			
I certify under penalty of law that this document ar			
supervision in accordance with a system designed t			
evaluated the information submitted. Based on my inc those persons directly responsible for gathering the in			
knowledge and belief, true, accurate, and complete			
submitting false information, including the possibility			
Name and title; print or type	Signature		Date
Charles Hyatt, President	a R Ho		4-27-17

Permit Number: SOP-____

Facility Iden	ification:		Existing Permit No.	06038
Facility Name:	Settler's Ridge Resort		County:	Sevier
Facility			Latitude:	35.75099N
Address or	Sevierville, TN 37876		Longitude:	83.47125W
Location:				03177223 **
		vaters: Unnamed tributary to Johns Branch - 1		
If any other St numbers: N/A	ate or Federal Water/Wast	ewater Permits have been obtained for this	s site, list thei	r permit
Name of comp Inc.	pany or governmental entit	y that will operate the permitted system: T	ennessee Waste	water Systems,
Operator addr	ess: 849 Aviation Parkwa	ny, Smyrna, TN 37167		
the Tennessee		cate of Convenience & Necessity (CCN), A) (may be required for collection systems N/A		
If the applicant how and when the contract for	t listed above does not yet the ownership will be tran	own the facility/site or if the applicant wil asferred or describe the contractual arrange		
-	•	plaining the entity type, number of desi	gn units, and	l daily design
wastewater fl		nhar of Docion Huito		Flow (gpd)
Entity Ty City, town	The state of the s	nber of Design Units		Flow (gpd)
county	or two. or connection	i.		
Subdivisio	n No. of homes:	Avg. No. bedrooms per home:		and the state of t
School	No. of students:	Size of cafeteria(s):		
		No. of showers: 0		0.4-W.A.G
Apartment	No. of units:	No. units with Washer/Dryer ho	okups:	
		No. units without W/D hookups:		
Commerci Business	al No. of employees			
Industry	No. of employees	Product(s) manufactured:		
	No. of units: 40	Lots		10,500
Camp	No. of hookups:			
RV Park	No. of hookups:	No. of dump stations:		
Car Wash	No. of bays:			
Other				ariani aria sa sanak artuka da ka an an an an an arian banar da mayba, kipi, digo kan un a
•	1 2	ties that result in wastewater generation.		
Rental Cabii	Kesort			

Permit Number: SOP-

Engineering Report (required for collection systems and/or land application treatment □ N/A systems): Prepared in accordance with Rule 1200-4-2-.03 and Section 1.2 of the Tennessee Design Criteria (see website for more information) Attached, or Previously submitted and entitled: Preliminary Eng. Rpt. Approved? X Yes. Date: 11-30-06 No Wastewater Collection System: N/A System type (i.e., gravity, low pressure, vacuum, combination, etc.): STEP/STEG small diameter sewer system System Description: STEP/STEG small diameter sewer system Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Tanks and sewers are watertight. There are no bypass points in the system. TWSI also has emergency generators to run the pumps. In the event of a system failure describe means of operator notification: Cellular telemetry notification List the emergency contact(s) (name/phone): Brian Carter - 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)? There are no grinder pumps. All notifications come to TWSI at 615-220-7200 Approximate length of sewer (excluding private service lateral): ~3,000ft Number/hp of lift stations: 0 /0 Number/hp of lift pumps 0/0 Number/volume of low pressure and or grinder pump tanks 0/0 Number/volume septic tanks 40 / 1,500 gal Attach a schematic of the collection system. Attached Previously submitted and approved If this is a satellite sewer and you are tying in to another sewer system complete the following section, listing tie-in points to the sewer system and their location (attach additional sheets as necessary): Tie-in Point Latitude (xx.xxxx°) Longitude (xx.xxxx°) N/A

Permit Number: SOP-____

Land Application Treatment System:	□ N/A	
Type of Land Application Treatment System: Drip Spray Other, explain:		
Type of treatment facility preceding land application (recirculating media filters, lagoons, other	, etc.):	
Recirculating Sand Filter		
Attach a treatment schematic. Attached Previously submitted and approved		
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures,		
equipment failures, heavy rains, etc.): Same as above		
For New or Modified Projects:		
Name of Developer for the project: Existing permit	and the control of the control of the state	
Developer address and phone number: Existing permit		
For land application, list: Proposed acreage involved: ~1.8 +/- acres		
Inches/week gpd/sq.ft loading rate to be applied: 2.2 inchs/week		
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 inform		
i i l'Conceronhie man (1·74 (10)) segle presented et e six inch hy six inch minimim size) shourn	.1 1	
Topographic map (1:24,000 scale presented at a six inch by six inch minimum size) showing		
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included.		
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included.	ecimal degrees	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included.	ecimal degrees water collection	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster	ecimal degrees water collection property	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands.	water collection property eas, sinkholes	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands. Soils information for the proposed land disposal area in the form of a Water Pollution Contraction.	water collection , property eas, sinkholes	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands. Soils information for the proposed land disposal area in the form of a Water Pollution Contr. Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils	water collection , property eas, sinkholes rol (WPC) Soils information	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands. Soils information for the proposed land disposal area in the form of a Water Pollution Contraction.	water collection , property eas, sinkholes rol (WPC) Soils information	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands. Soils information for the proposed land disposal area in the form of a Water Pollution Contr. Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile descript mapped.	water collection , property eas, sinkholes rol (WPC) Soils information ion for each soil	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands. Soils information for the proposed land disposal area in the form of a Water Pollution Contr. Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile descript mapped. Topographic map of the area where the wastewater is to be land applied with no greater that	water collection , property eas, sinkholes rol (WPC) Soils information ion for each soil	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands. Soils information for the proposed land disposal area in the form of a Water Pollution Contr Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile descript mapped. Topographic map of the area where the wastewater is to be land applied with no greater that contours presented at a minimum size of 24 inches by 24 inches.	water collection property eas, sinkholes ol (WPC) Soils information ion for each soil a ten foot	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands. Soils information for the proposed land disposal area in the form of a Water Pollution Contr. Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile descript mapped. Topographic map of the area where the wastewater is to be land applied with no greater than contours presented at a minimum size of 24 inches by 24 inches. Describe alternative application methods based on the following priority rating: (1) connections.	water collection property eas, sinkholes ol (WPC) Soils information ion for each soil a ten foot	
the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in d should also be included. Scaled layout of facility showing the following: lots, buildings, etc. being served, the waster system routes, the pretreatment system location, the proposed land application area(s), roads, boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection are and wetlands. Soils information for the proposed land disposal area in the form of a Water Pollution Contr Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile descript mapped. Topographic map of the area where the wastewater is to be land applied with no greater that contours presented at a minimum size of 24 inches by 24 inches.	water collection property eas, sinkholes ol (WPC) Soils information ion for each soil a ten foot	

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	And decided	
after approval of the SOP Application, will be issued an UIC tracking number and will	⊠ N/A	
be authorized as Permit by Rule per UIC Rule 1200-4-614(2) and upon issue of a State	MIN/A	
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		
the Drip Dispersal System site or facility, and shall include, but not be limited to general su	rface geographic	
features, general subsurface geology, and general demographic and cultural features within the area. Attach to		
this part of the application a general characterization of the AOR, including the following:	(This can be in	
narrative form)		
A general description of all past and present groundwater uses as well as the general ground	water flow	
direction and general water quality.		
A general description of the population and cultural development within the AOR (i.e. agric	ultural,	
commercial, residential or mixed)		
Nature of injected fluid to include physical, chemical, biological or radiological characterist	ics.	
If groundwater is used for drinking water within the area of review, then identify and locate		
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 are	a (this can be	
obtained from the water provider)		
If the proposed system is located within a wellhead protection area or source water protection	n area	
designated by Rule 1200-5-134, show the boundary of the protection area on the facility site		
Description of system, Volume of injected fluid in gallons per day based upon design flow,	including any	
monitoring wells		
Nature and type of system, including installed dimensions of wells and construction materia	s	
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:		
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power fequipment failures, heavy rains, etc.):	ailures,	

Permit Number: SOP-____

Holding Ponds (for non-domestic wastewater only):	⊠ N/A
Pond use: Recirculation Sedimentation Cooling Other (describe):	
Describe pond use and operation:	NACE CONTROL OF THE STATE OF TH
If the pond(s) are existing pond(s), what was the previous use?	
Have you prepared a plan to dispose of rainfall in excess of evaporation? Yes No	
If so, describe disposal plan:	
Is the pond ever dewatered? Yes No	A GAT MARIA I M CAMA JAMA JAYA JAYA JAYA JAYA JAYA JAYA J
If so, describe the purpose for dewatering and procedures for disposal of wastewater and/or s	sludge:
Is(are) the pond(s) aerated? Yes No	regisalis de com a representa princis de com un como de com de com un como designa de como de composito de com
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. Otherwi apply for an Underground Injection Control permit.)? Yes No	se, you must
Describe the liner material (if soil liner is used give the compaction specifications):	
Is there an emergency overflow structure? Yes No	
If so, provide a design drawing of structure.	
Are monitoring wells or lysimeters installed near or around the pond(s)? Yes No	
If so, provide location information and describe monitoring protocols (attach additional she necessary):	eets as

Permit Number: SOP-

Mobile Wash Operations:		⊠ N/A
Individual Operator	Fleet Operation O	perator
Indicate the type of equipment, ve	hicle, or structure to be washed during	normal operations (check all
that apply):	_	-
Cars	Parking Lot(s):	sq. ft.
Trucks	Windows:	sq. ft.
Trailers (Interior washing of dur	ip-trailers, or Structures (describ	na).
tanks, is prohibited.)	Structures (descrit	Je).
Other (describe):		`
Wash operations take place at (ch	eck all that apply):	
Car sales lot(s)	Public parking lot	(s)
☐ Private industry lot(s)	Private property(ie	es)
County(ies), list:	☐ Statewide	
Wash equipment description:		
Truck mounted	<u> </u>	
Rinse tank size(s) (gal.): Mixed tanks size(s) (gal.):		
Collection tank size(s) (gal.):	Number of tanks per v	vehicle:
Pressure washer: psi (rated)	gpm (rated)	
gas powered	electric	
Vacuum system manufacturer/mode		city: inches Hg
Describe any other method or system used to contain and collect wastewater:		
List the public sewer system where	ou are permitted or have written permiss	ion to discharge waste wash water
(include a copy of the permit or r	•	· ·
	,	
Are chemicals pre-mixed, prior to a	riving at wash location? Yes	No
	ther chemicals used in the wash operat	tion (attach additional sheets as
necessary):	•	-
Chemical name:	Manufacturer: P	rimary CAS No. or Product No.