

851 Aviation Parkway Smyrna, TN 37167

Tennessee Wastewater Systems, Inc. Docket 15-00025 September 2017 Report Overview

Systems subject to Notice of Violations and other Corrective Orders:

Starr Crest II (NOV) -Finalizing agreement with HOA on assessments so that work can begin on system expansion with targeted start date in the Fall.

Smoky Village (NOV) - Docket 16-00096 - Settlement Agreement with CPAD has been filed in the docket.

Summit View – Docket 14-00136 – The SOP remains under appeal by the HOA. Discussions are currently ongoing with TDEC to resolve this matter.

Cedar Hill – Docket 16-00096 – Settlement Agreement with CPAD has been filed in the docket.

Maple Green (NOV) – Docket 16-00096 – Settlement Agreement with CPAD has been filed in the docket.

River Road* (NOV) – TWSI responded to the NOV and provided a CAP as requested.

Hidden Springs Resort (NOV) – NOV issued alleging certain violations of the SOP. NOV and TWSI response is included with this report. Communication has been ongoing with the HOA and land owners in the community to determine an adequate plan (and to identify land) to expand the wastewater system to meet the current and future wastewater needs of the community.

* River Road is not included in the KPI Report because there is no discharge from the facility and is not monitored.

TPUC Flow KPI Report for 8/31/2017

The state of the s		The second division of	The state of the s			
I racy Nichols	Permitted	Expected	ted Actual	% of Expected	AvgFlow	% of Expected
Cedar Hill DCP	75000	18036		00'0	1736.00	0.10
Maple Green DCP	74000	39748	30890	0.78	22746.67	0.57
Jeramy Stewart	Permitted	Expected	Actual	% of Expected	AvgFlow	% of Expected
Hidden Springs RSF	16000	19600	14399	0.73	14188,83	0.72
Starr Crest II BC	28000	23450	20685	0.88	30760.57	1.31
Summit View RSF	8000	3600	6540	1.17	3441.33	0.61
Brandon Dotson	Permitted	Expected	Actual	% of Expected	AvgFlow	% of Expected
Smoky Village RSF	2600	5073	2528	0.50	1911.73	0.38



TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION DIVISION OF WATER RESOURCES

William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue Nashville, TN 37243

8/07/2017

CERTIFIED MAIL
7099 3220 0007 9314 6561
Return Receipt Requested

Mr. Charles Hyatt, President Tennessee Wastewater Systems, Inc. E-copy: charles.hyatt@adenus.com 849 Aviation Pkwy. Smyrna, TN 37167

Re:

Notice of Violation

Compliance Inspection Tennessee Wastewater Systems, Inc. Hidden Springs Resort UIC SEV 0000077 SOP-00068 Sevier County

Mr. Hyatt:

On 8/01/2017 Billy Roach, Anastasia Sharp & I conducted a complaint investigation of the Hidden Springs Treatment Facility. I met with Jeremy Stewart of Adenus to review the operation of the system. An odor complaint was filed with the Division and was the reason for the site visit. My observations and comments are as follows:

The recirculating sand filter (RSF) was not operational and treatment operations had been modified to allow the use of two FAST units. Significant odor was coming from the RSF.

Effluent was observed flowing from the drip field into a ditch beside the access road. The flow continues through the lower portion of the development and into a tributary of Middle Creek.

As stated in Rule 0400-40-02-.03 ENGINEERING REPORT AND PRELIMINARY PLANS.

- (3) For small domestic wastewater plants, the following restrictions apply:
 - (a) Activated sludge plants for design flows of 30,000 to 100,000 gallons per day will only be approved if all other treatment schemes have been demonstrated to be impractical due to non-economic considerations including but not limited to available space.
 - (b) No activated sludge plants will be approved for design flows less than 30,000 gallons per day.

Mr. Charles Hyatt Tennessee Wastewater Systems, Inc. 8/07/2017 Page 2

0400-40-02-.05 FINAL PLANS, CONTRACT DRAWINGS AND SPECIFICATIONS.

(1) Construction work shall not be commenced on any new construction or major change of existing facilities or for any activity outlined in T.C.A. § 69-3-108 until complete and final plans and specifications for such activities have been submitted to and approved in writing by an authorized representative of the Commissioner. No such approval shall be construed as creating the presumption of correct operation nor as warranting by the Commissioner or by his representative that the approved facilities will reach the design goals. The final contract drawings and specifications shall conform to the conditions outlined in the guidelines for preparing such plans as published by the Tennessee Department of Environment and Conservation. Final plans should be blue line on 24 inch by 36 inch sheets with all sheets the same size. Final plans and specifications must be submitted to a representative of the Commissioner in quadruplicate for review and comment or approval except for projects of sufficiently limited scope for which the Commissioner's representatives shall be allowed to accept final plans and specifications in duplicate. All submittals of final plans and specifications shall be made at least 30 days before action is desired. Upon approval of a submittal in quadruplicate, each complete set of plans and specifications will be stamped with the official stamp of approval; two sets will be retained by the Tennessee Department of Environment and Conservation and the other two sets will be returned to the person submitting the plans. Upon approval of a submittal in duplicate each complete set of plans and specifications will be stamped with the official stamp of approval; one set will be retained by the Tennessee Department of Environment and Conservation and the other set will be returned to the person resubmitting the plans. If construction has not commenced in accordance with approved plans and specifications within one year from the date of approval of said plans and specifications, the approval shall be subject to re-evaluation and may be declared null and void.

T.C.A 69-3-108. Permits States:

- (a) Every person who is or is planning to carry on any of the activities outlined in subsection (b), other than a person who discharges into a publicly owned treatment works or who is a domestic discharger into a privately owned treatment works, or who is regulated under a general permit as described in subsection (l), shall file an application for a permit with the commissioner or, when necessary, for modification of such person's existing permit.
 - (b) It is unlawful for any person, other than a person who discharges into a publicly owned treatment works or a person who is a domestic discharger into a privately owned treatment works, to carry out any of the following activities, except in accordance with the conditions of a valid permit:
 - (2) The construction, installation, modification, or operation of any treatment works, or part thereof, or any extension or addition thereto;

Modifications to the treatment system without approval of plans and specifications is a violation of T.C.A. 69-3-108 (b) (2) and Rule 0400-40-02-.05 (1) and activated sludge plants are only approved in accordance with Rule 0400-40-02-.03(3) (a). Rational for the change in treatment components has not been submitted for review.

Modifications to the treatment system without prior plans approval and overflows resulting in discharges to Waters of the State are a violation of your State Operation permit, and of the Water Quality Control Act.

Mr. Charles Hyatt Tennessee Wastewater Systems, Inc. 8/07/2017 Page 3

This letter will serve to formally notify you of these violations as identified on the above-listed dates and by copy will inform our Enforcement Section of the violations. This NOV is not a legal action in itself, but such violations may lead to enforcement action.

It is requested that a written response be submitted to this office within thirty (30) days of receipt of this letter, stating necessary corrective action.

If you have any questions or need further assistance, please contact Allen Rather by phone at 615-532-5819 or allen.rather@tn.gov.

Sincerely,

Allen Rather, LPSS

Land Based Systems Unit

Division of Water Resources

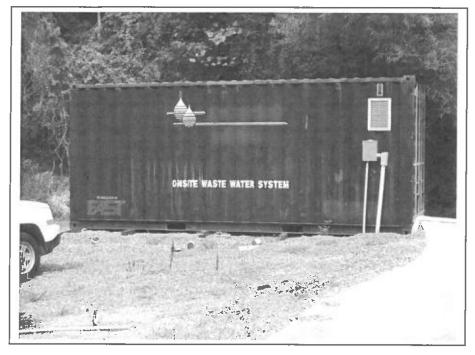
alle Rouber

cc:

DWR - Jessica Murphy, Compliance & Enforcement Section

TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION	DIVISION DWR page 1 of 2
Site Name Hidden Springs Resort	County Sevier
Investigator Allen Rather/ Anastasia Sharp	Witness Jeremy Stewart- Adenus

Upper right corner of photograph



Date:8/01/17	Time: 1100 hrs
Description	
One of two FAS	ST units installed
to provide treats	ment. The RSF is
not on line.	

Upper right corner of photograph



	Date:8/01/17 Time: 1120 hrs
	Description
	Treated effluent flowing down
	hill to a drain that flows to
	Middle Creek
ľ	
Ì	
Ì	

I certify that the attached photographs are true and accurate representations of conditions and/or events observed during the conduct of my inspection.

Signature of Investigator _____ Allen Rather

TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION	DIVISION DWR page 2 of 2
Site Name : Hidden Springs Resort	County Sevier
Investigator: Allen Rather/Anastasia Sharp	Witness: Jeremy Stewart- Adenus

Upper right corner of photograph



Date:8/1/17	Time: 1100 hrs
Description	
Recirculating s	and filter covered
in plastic in an	effort to reduce
odor.	

Upper right corner of photograph



Date:8/01/17	Time: 1115 hrs
Description	
Effluent flowing	g from the drip
field to the ditch	along the
access road.	
	
	•
	<u></u>

I certify that the attached photographs are true and accurate representations of conditions and/or events observed during the conduct of my inspection.

Signature of Investigator Allen Rather



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

Land Based Systems Inspection Report

Facility: Hidden Springs Resort					
Address: Boo Boo Way					
ounty: Sevier City: Sevierville					
UIC Authorization # SEV 0000077 SOP- 00068					
Purpose of Visit: Complaint Investigation					
Responsible Management Entity: Adenus-Jeremy Stewart					
Type of System					
Latitude Longitude					
Recirculating Sand Filter Not in use					
FAST Unit (2) X 35*48'33.8" -83*30'29.6"					
Dispersal Application Latitude Longitude					
Drip 6 zones X 35*48'33.5" -83*30'29.9"					
Waste Stream Characterization Domestic Commercial/Industrial					
Disinfection UV Chlorination Other None X					
Photos Taken Yes No Number 13					
Fencing Yes X No No					
Signs Yes X No Locations					
Inhibited Access Yes No X					
Comments					
There have been a few changes at the site since the last time I was there. They					
have bypassed the RSF and are going to two FAST units. They are using the RSF for					
excess storage only. Consequently, the filter has gone anaerobic and has a strong sewage					
odor. The filter has overflowed in the past. Effluent was observed flowing down the					
hillside in several locations from the drip area into a drain that leaves the site and goes to					
the nearby creek. The fence was down in places along the access road to the site. NOV to be sent.					
NOV to be sent.					
			_		
Inspected By: Allen Rather/Anastasia Sharp/Billy Roach Date: 8/01/2017					
Signature:					



851 Aviation Parkway Smyrna, TN 37167

September 5, 2017

Mr. Allan Rather
Tennessee Department of Environment and Conversation
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue
Nashville, TN 37243

Re: Notice of Violation - Hidden Springs Resort - SOP #00068

Mr. Rather;

This letter is in response to the Notice of Violation (NOV) issued to Tennessee Wastewater Systems, Inc. ("TWSI") dated August 7, 2017 related to the Hidden Springs Resort treatment facility.

The NOV claims the recirculating sand filter was not operational and treatment operations had been modified to allow the use of two FAST units. Significant odor was coming from the sand filter. And effluent was observed flowing from the drip field into a ditch beside the access road which continued through the lower portion of the development into a tributary for Middle Creek.

The FAST units have been utilized to replace the clogged sand filter. TDEC was notified of the need for this setup and the work was coordinated with and approved by George Garden. The odor is due to raw influent flowing through the sand filter. As shown in your photos a vapor barrier is covering the sand filter to keep the odor to a minimum.

TWSI has been working with the Hidden Springs HOA and the owners of the majority of the available land in the resort to craft a plan to relocate the existing treatment plant and expand the treatment and dispersal system. Grant Dunn is preparing to begin the final soils map to expand the existing drip irrigation fields. The exact location and treatment type will be determined after the final soil mapping and configuration of the proposed treatment area. The goal is to move the treatment plant from its current location to an area with better access. The drip irrigation system will also have to be significantly expanded to serve the commercial cabin community. We hope to have a plan ready for submittal in the next 6 months depending on timing of the final soils map by Mr. Dunn.

TWSI is unaware of any overland flows from the drip field and is investigating the issue.

Regards,

Charles Hyatt

President

Jeff Risden

From:

Marshall Fall

Sent:

Tuesday, August 15, 2017 2:34 PM

To:

Brad Harris; George Garden

Cc:

Jeff Risden; Bob Pickney

Subject:

Summit View Plans and Surveys/Soil map

Attachments:

Structures Location Survey_Soils_ Plans Summit View Overlay.pdf

George and Brad,

Attached is a copy of the structures survey of the Summit View Treatment Facility in Sevier County. Overlayed onto this survey is the soils map, and the structures locations based on the revised plans that were submitted. If you have any questions, please feel free to get in touch with me.

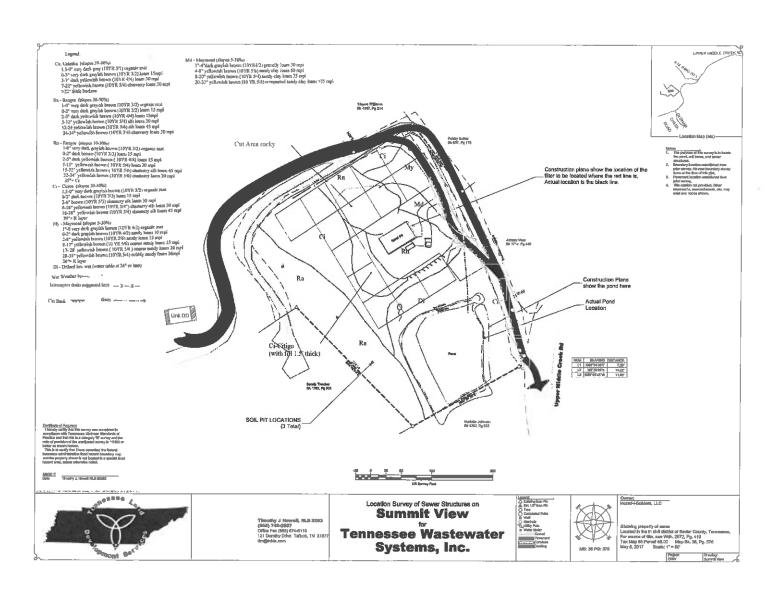
Thanks,



Chief Technical Officer

Adenus Group, LLC | 849 Aviation Pkwy, Smyrna, TN 37167

Direct: +1 615.220.7195 | Mobile: +1 615.428.0923 | Fax: 615.220.7207



Jeff Risden

From:

Brad Harris < Brad. Harris@tn.gov>

Sent:

Wednesday, August 16, 2017 2:45 PM

To:

Marshall Fall; George Garden

Cc:

Jeff Risden; Bob Pickney; George Bell

Subject:

RE: Summit View Plans and Surveys/Soil map

Attachments:

170215_Summitt View Rescinding Approval.pdf

Marshall,

Thanks for the survey. We are certainly moving in the right direction. However, it's mine and George's understanding that the proposed drip field expansion of the original field has been installed or at least installed in part. I attached a copy of the letter that rescinded the plans for reference. While this information is helpful, we need to be able to compare the actual zone and planned zone locations to the survey. Feel free to give me or George a call if you have questions. This is not sufficient to allow us to reinstate the plans approval.

Thanks, Brad



Brad C Harris P.E.

Division of Water Resources / William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor / Nashville, Tennessee 37243 Direct (615) 532-5367 / Brad. Harris@tn.gov

From: Marshall Fall [mailto:marshall.fall@adenus.com]

Sent: Tuesday, August 15, 2017 2:34 PM

To: Brad Harris; George Garden **Cc:** Jeff Risden; Bob Pickney

Subject: Summit View Plans and Surveys/Soil map

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

George and Brad,

Attached is a copy of the structures survey of the Summit View Treatment Facility in Sevier County. Overlayed onto this survey is the soils map, and the structures locations based on the revised plans that were submitted. If you have any questions, please feel free to get in touch with me.

Thanks.



Chief Technical Officer

Adenus Group, LLC | 849 Aviation Pkwy, Smyrna, TN 37167 Direct: +1 615.220.7195 | Mobile: +1 615.428.0923 | Fax: 615.220.7207

Jeff Risden

From:

Marshall Fall

Sent:

Wednesday, August 16, 2017 2:49 PM

To:

Brad Harris; George Garden

Cc:

Jeff Risden; Bob Pickney; George Bell

Subject:

RE: Summit View Plans and Surveys/Soil map

Thanks Brad, we are working on getting that survey along with better topo completed ASAP.

Marshall

From: Brad Harris [mailto:Brad.Harris@tn.gov]
Sent: Wednesday, August 16, 2017 2:45 PM

To: Marshall Fail <marshall.fall@adenus.com>; George Garden <George.Garden@tn.gov>

Cc: Jeff Risden <Jeff.Risden@Adenus.com>; Bob Pickney <Bob.Pickney@Adenus.com>; George Bell

<George.Bell@tn.gov>

Subject: RE: Summit View Plans and Surveys/Soil map

Marshall,

Thanks for the survey. We are certainly moving in the right direction. However, it's mine and George's understanding that the proposed drip field expansion of the original field has been installed or at least installed in part. I attached a copy of the letter that rescinded the plans for reference. While this information is helpful, we need to be able to compare the actual zone and planned zone locations to the survey. Feel free to give me or George a call if you have questions. This is not sufficient to allow us to reinstate the plans approval.

Thanks, Brad



Brad C Harris P.E.

Division of Water Resources / William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor / Nashville, Tennessee 37243 Direct (615) 532-5367 / Brad. Harris@tn.gov

From: Marshall Fall [mailto:marshall.fall@adenus.com]

Sent: Tuesday, August 15, 2017 2:34 PM

To: Brad Harris; George Garden **Cc:** Jeff Risden; Bob Pickney

Subject: Summit View Plans and Surveys/Soil map

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

George and Brad,

Attached is a copy of the structures survey of the Summit View Treatment Facility in Sevier County. Overlayed onto this survey is the soils map, and the structures locations based on the revised plans that were submitted. If you have any questions, please feel free to get in touch with me.

Thanks,



Adenus Group, LLC | 849 Aviation Pkwy, Smyrna, TN 37167 Direct: +1 615.220.7195 | Mobile: +1 615.428.0923 | Fax: 615.220.7207