



Tennessee Wastewater Systems, Inc.
Docket 15-00025
August 2018 Report Overview

Systems subject to Notice of Violations and other Corrective Orders:

Starr Crest II (NOV) – Construction on the expansion of the wastewater system has begun. Phase 1 is complete. Work on Phase 2 has begun. TDEC will inspect upon completion of the entire expansion.

Smoky Village (NOV) – Docket 16-00096 – Commission approved the settlement agreement between TWSI and CAD. TWSI is working to finalize the financing.

Summit View – Docket 14-00136 – TDEC has reinstated the construction plans for the site.

Cedar Hill – Docket 16-00096 – Commission approved the settlement agreement between TWSI and CAD. TWSI is working to finalize the financing.

Maple Green (NOV) – Docket 16-00096 – Commission approved the settlement agreement between TWSI and CAD. TWSI is working to finalize the financing.

River Road* (NOV) – TWSI is awaiting a signed easement for the land occupied by the sewer system. This is the final requirement TDEC had for the site.

Hidden Springs Resort (NOV) – Soils work is being conducted onsite to determine suitable soils for the necessary drip field expansion. Plans to overhaul the treatment facility continue to be developed and will be submitted to TDEC soon. Discussions are beginning with land owners regarding obtaining ownership to additional drip areas to serve the property.

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

Jeff Riden

From: HAWKMS Agent <agent@hawkms.com>
Sent: Wednesday, August 1, 2018 7:50 AM
To: Charles Hyatt; Brian Carter
Cc: Jeff Riden; Bob Pickney; Matt Pickney
Subject: TRA KPI Compliance Report for 8/1/2018 7:50:00 AM

TPUC Flow KPI Report for 7/31/2018

Tracy Nichols	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Cedar Hill DCP	75000	30025	0	0.00	0.00	
Maple Green DCP	74000	50304	0	0.00	14179.00	

Jeremy Stewart	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Hidden Springs RSF	30750	19600	30611	1.56	14264.80	
Starr Crest II BC	28000	23625	42292	1.79	35171.07	
Summit View RSF	8000	5425	5962	1.10	8538.77	

Brandon Dotson	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Smoky Village RSF	5600	4725	-243	-0.05	1189.80	

Jeff Ridsen

From: Marshall Fall
Sent: Thursday, August 2, 2018 5:30 PM
To: Jeff Ridsen
Cc: Charles Hyatt
Subject: TPUC Report

Jeff,

After receiving an email from George Garden dated 7/23/18 inquiring about progress on the plans for Hidden Springs TF upgrades, I promptly (within 19 minutes) responded with a brief update:

George,

We should have the plans wrapped up today or tomorrow for the proposed forcemain and new facility. This has been a very challenging design due to the difference in elevations between the highest drip field and the lowest, and trying to keep with (semi) standardized pumping equipment.

Thanks,

Marshall

To follow up, on 7/24/18 I sent George a copy of the draft plans for the TF upgrades. I mentioned that we were trying to get the plans completed by the end of the week, but that didn't happen. After a quick review of the plans, on 7/25/18 George responded via email and he had a few questions and comments about the design, and actually complimented Adenus on the effort! The comments are in light blue below, and my reply back is in red below:

"Thanks, Marshall. These are already the best plans I have ever seen from Adenus. Thank you." Thanks George, I'll wait to get excited about the compliment until you have had a good look at them ☺

"I have limited viewing capability on the road with this laptop, but have a few comments/questions."

"TWSI has maintained that exaggerated loading during high tourist season is the main problem at Hidden Springs;" George, that is probably the main issue but there are others as well. As you well know, the system is just flat out overloaded, on the average daily flow and also with having limited surge capacity, busy weekends are a killer. Fact is, the original design did NOT take into consideration that there might be 50 or so "cabins" that are 4800 sq ft + with 6-8 bedrooms each. This seems to be what MOST of the problems TWSI has faced in that county. "are you sure the 40,000 gallon surge tank is really a surge tank?" Per the plans, no it is not! There is not supposed to be a 20,000 gallon recirc tank. The 40,000 gallon tank is the surge/blend/recirc tank. The BioCleen dosing pumps will be located in the 40,000 gallon tank and the recirc lines from the pods will flow back into this tank also. THAT will make it a surge tank. My apologies, that was bad communication on my part between my cad guy and me. "It looks like a septic tank: what goes in goes out and the pump tank after it is providing all the surge or EQ? Do you have your daily flow data for Hidden Springs?" Yes, I am working on having someone compile that for me right now. "Please provide with the engineering report and show how your surge/EQ capacity is sufficient" The data will be in the engineering report. "Can you superimpose high intensity soils information on the dosing plan sheet?" We should be able to do that with out making a mess of the sheet.

"Thanks for the property boundaries" You are welcome. This sheet should not be confused with a survey or something that is set in stone. This sheet was created to be used for illustration purposes to inform the land owner what will be needed (generally) but I figured you would want to see what I am attempting to accomplish (land/property) wise. When the system has been constructed, I intend on providing something VERY similar to this to TDEC with an as-built "; how

hard will it be to demonstrate ownership/easements for the supply and recirc lines and the new and existing dosing fields?" This is above my pay grade! I honestly can't answer this for you.

I have been working on the hydraulics of this system for quite some time now and it has been a challenge. We are trying to get this done ASAP, but like all of the sites in East TN, it presents a whole new level of design and review.

On 7/26/2018 I asked George if he went to visit the Hidden Springs Facility to address some neighbor complaints. His response:

"Yes. Grim on a good day. Really grim a couple days after nothing going to the disposal fields and everything overflowing down the hill from the plant. Next time we'll go immediately."

After I rec'd that response, I asked George to call me and he did a couple of hours later. Our conversation started off with me giving him a brief update on the Logue Road system, then we had a brief conversation about Hidden Springs. George mentioned that one of the maint. Personnel from the resort had video and pictures of the overflow event that occurred on the Friday before the visit. He stated that it is bad news but optimistic TWS can get the issues with the complaints and excessive flows to the drip fields resolved once the plans are approved and funding is arranged. He also stated that he was worried that the project would be held up due to funding.

As of this afternoon, David and I are about 95% complete with the plans, about 60% complete on the engineering report, and about 80% complete on the permit modification application. We both are pushing to get the plans, engineering report, and the sop application submitted to TDEC next week.

Thanks,


Marshall Fall, P.E.
Chief Technical Officer

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