



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

Systems subject to Notice of Violations and other Corrective Orders:

Starr Crest II (NOV) – Repairs made. TDEC has issued the modified SOP and approved the construction plans for upgraded system. Awaiting final agreement with HOA on assessments so that work can begin. TDEC will inspect once system upgrades are complete.

Smoky Village (NOV) – Docket 16-00096 – TDEC will inspect once system upgrades are complete.

Summit View – Docket 14-00136 – TDEC issued the final SOP. Summit View HOA has appealed the final SOP to the Water Resources Division of TDEC. Construction plans have been approved by TDEC for the system expansion. TDEC will inspect once system upgrades are complete.

Cedar Hill – Docket 16-00096 - TDEC will inspect once system upgrades are complete.

Maple Green (NOV) – Docket 16-00096 – TDEC will inspect once system upgrades are complete.

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

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

Jeff Ridsen

From: HAWKMS Agent <agent@hawkms.com>
Sent: Sunday, January 1, 2017 7:50 AM
To: Charles Hyatt; Brian Carter; Roy Denney
Cc: Jeff Ridsen; Bob Pickney; Matt Pickney
Subject: TRA KPI Compliance Report for 1/1/2017 7:50:02 AM

TRA Flow KPI Report for 12/31/2016

Tracy Nichols	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Cedar Hill DCP	75000	18036	0	0.00	3594.33	
Maple Green DCP	74000	40098	70580	1.76	44179.67	

Jeremy Stewart	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Starr Crest II BC	28000	24150	34564	1.43	29668.33	
Summit View RSF	8000	5775	12270	2.12	6295.67	

Brandon Dotson	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Smoky Village RSF	5600	4725	2745	0.58	3119.03	

Jeff Ridsen

From: Charles Hyatt
Sent: Tuesday, January 3, 2017 7:43 AM
To: Jeff Ridsen
Subject: FW: Maple Green

From: Brad Harris [mailto:Brad.Harris@tn.gov]
Sent: Monday, December 19, 2016 9:22 AM
To: Charles Hyatt <Charles.Hyatt@Adenus.com>
Cc: George Garden <George.Garden@tn.gov>; Allen Rather <Allen.Rather@tn.gov>
Subject: RE: Maple Green

Ok, thanks.

Brad

From: Charles Hyatt [mailto:Charles.Hyatt@Adenus.com]
Sent: Monday, December 19, 2016 8:23 AM
To: Brad Harris
Cc: Jeff Ridsen
Subject: RE: Maple Green

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

Brian Carter will be there to meet you at 1pm. The Lowes distribution center agreement just got signed this morning. Their flow was included in the design of the 90,000 gpd plans. We will get started prior to Jan 20th of the plans expiration.

From: Brad Harris [mailto:Brad.Harris@tn.gov]
Sent: Friday, December 16, 2016 8:45 AM
To: Charles Hyatt <Charles.Hyatt@Adenus.com>
Cc: Brian Carter <Brian.Carter@Adenus.com>; Jeff Ridsen <Jeff.Ridsen@Adenus.com>; Marshall Fall <marshall.fall@adenus.com>; George Garden <George.Garden@tn.gov>; Allen Rather <Allen.Rather@tn.gov>; Tim Jennette <Tim.Jennette@tn.gov>
Subject: Maple Green

Charles,

I had a call from a staff person at the field office yesterday inquiring about sewer availability for a distribution center and hotel at Maple Green. They mentioned they understood the facilities were already connected or intended to connect to the Maple Green facility. Has TWSI approved connections for a hotel and/or distribution center to the Maple Green facility?

Also, what is the current status or progress toward the wetland installation? I know the plans are getting close to a year old.

We intend to stop by the facility Monday at 1:00pm to take a look at it. If you could have a staff person meet us there we would appreciate it.

Thanks,



Department of
**Environment &
Conservation**

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

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Cc: Brian Carter <Brian.Carter@Adenus.com>; Jeff Ridsen <Jeff.Ridsen@Adenus.com>; Marshall Fall <marshall.fall@adenus.com>; George Garden <George.Garden@tn.gov>; Allen Rather <Allen.Rather@tn.gov>; Tim Jennette <Tim.Jennette@tn.gov>
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Direct (615) 532-5367 / Brad.Harris@tn.gov

Jeff Ridsen

From: Charles Hyatt
Sent: Tuesday, January 3, 2017 7:44 AM
To: Jeff Ridsen
Subject: FW: Summit View

From: George Garden [mailto:George.Garden@tn.gov]
Sent: Thursday, December 1, 2016 11:22 AM
To: Bob Pickney <Bob.Pickney@Adenus.com>
Cc: Charles Hyatt <Charles.Hyatt@Adenus.com>; Jeff Ridsen <Jeff.Ridsen@Adenus.com>
Subject: RE: Summit View

I received a determination on when the “public comment period is over” since that is the criteria for provided approved plans. It is officially (to the extent the Office of General Council’s opinion is “official”) over and we are preparing to send you approved construction plans without comment. So you may use this email as approval to proceed. There are those for which this action will cause heartburn, but so be it.

From: Bob Pickney [mailto:Bob.Pickney@Adenus.com]
Sent: Thursday, December 01, 2016 9:15 AM
To: George Garden
Cc: Charles Hyatt; Jeff Ridsen
Subject: Summit View

George –

I need some type of answer on Summit View – I will not have a better time to install the drains and upgrade existing drip fields than right now given the dry weather and low occupancy of the cabins – I can do this with regular maintenance personnel without seeking funding through TRA – it seems silly that I have an order to fix the system and I cannot even get plans approval after the permit is issued – if TDEC cannot make a decision without further meetings etc. would you at least let me know that so I can reschedule our workload – TWSI considers this a high priority to at least minimize the site issues – I would hope TDEC would agree –

Thanks,

Bob

Jeff Ridsen

From: Marshall Fall
Sent: Wednesday, December 28, 2016 2:05 PM
To: George Garden
Cc: Brad Harris; Allen Rather; Jeff Ridsen; Charles Hyatt
Subject: RE: 161228_Maple Green SOP

George,

I was just told that the Hotel was tied onto an existing forcemain that was installed some years ago via a service connection. Hope that clarifies that part.

The design flow for the Lowes Distribution Center is 10,000 GPD. Actual flow will likely be in the neighborhood of one-half to one-third of that number.

If you have any additional questions, please feel free to let me know.

Thanks,

Marshall

From: George Garden [mailto:George.Garden@tn.gov]
Sent: Wednesday, December 28, 2016 9:09 AM
To: Marshall Fall <marshall.fall@adenus.com>
Cc: Brad Harris <Brad.Harris@tn.gov>; Allen Rather <Allen.Rather@tn.gov>
Subject: 161228_Maple Green SOP

We encourage the change from the constructed wetlands technology to the recirculating sand filter type system for Maple Green since the RSF is a much more resilient and robust treatment system if operated properly. From my visit to the site last week I would say that the drip fields are in good operating condition and appropriately sited. As drip areas increase and as the RSF is sited, we will be very interested in avoiding areas with any evidence of sinkhole formation (such as the lagoon site with its demonstrated geological activity). The current 90,000 gpd permit is based on three 30,000 gpd constructed wetlands. A permit modification request is required and the resulting modified permit must go on public notice. To put it on public notice, we need a permit mod request and a short preliminary engineering report. We can avoid the alternatives analysis for the RSF, however, the PER should show us where the plant will be sited and its design parameters and the current and foreseen wastewater loads that the system is seeing and will see. If the whole 90,000 gpd treatment capacity is not going to be built out initially, please provide the intended sequence of phased construction. Note that we would normally require the expansion of the treatment system and the drip field to keep pace with the system increased growth; the permits require the expansion to be completed before the highest month's average flow reached 80% of the treatment or disposal design flow. Attached is a draft permit for a RSF treating domestic wastewater from residential areas. We are not quite sure at this point what the Lowes distribution center is actually going to discharge. We also have never approved the collection system from the motel into the Maple Green system.

There was to have been an emergency order issued that never got out of our legal office. It is not my final decision to make but at this point I will support forgetting that issue and moving on if we can get caught up with the system records at this point.

The draft review checklists for preliminary engineering reports and plans submissions are also attached. You should follow the items with the columns DC (decentralized) and LA (land application) checked for plans submission.

Please call with any questions.



George C. Garden, P.E. BCEE | Chief Engineer
Division of Water Resources
11th Floor, William R. Snodgrass TN Tower
312 Rosa L. Parks Avenue
Nashville TN 37243-1102
p. 615-253-9934 c. 615-416-0164
george.garden@tn.gov

From: Marshall Fall [<mailto:marshall.fall@adenus.com>]
Sent: Thursday, December 22, 2016 3:39 PM
To: George Garden
Cc: Jeff Ridsen; Brad Harris; Allen Rather
Subject: RE: Contact information

Thanks George. I figured that is how you all were doing it when all I kept hearing about was 66 squares. At this point, I am sure you all are fully aware of how critical every square foot of good dirt is as it relates to the capacity of the Logue Road Treatment Facility. I want to make myself available to you guys in cases like this where there is such a discrepancy, and we have the technology to provide a very accurate analysis of what is available (vs how we learned how to do it in college). The difference is approximately 18,000 SF, and that will make a big difference on our end.

I appreciate any help you are willing to provide in both instances. Have a Merry Christmas and I will talk to you next week.

Thanks,

Marshall

From: George Garden [<mailto:George.Garden@tn.gov>]
Sent: Thursday, December 22, 2016 3:13 PM
To: Marshall Fall <marshall.fall@adenus.com>; Allen Rather <Allen.Rather@tn.gov>; Brad Harris <Brad.Harris@tn.gov>
Cc: Jeff Ridsen <Jeff.Ridsen@Adenus.com>
Subject: RE: Contact information

Marshall, Allen Rather sent our areal measurements based on counting 50x50 foot squares to Keith Townsend. We are high on one and low on two others. The total amount is about a wash HOWEVER they are still different. I suspect at this point that the drawings we have vary in the scale for the squares. We don't have CAD; we count squares.

I'll send you what is going to be the guidance on plans and engineering report preliminary and final submissions after Christmas. The permit modification will only have to change the treatment process. It should be simple and we can do that the week of January 4.

From: Marshall Fall [<mailto:marshall.fall@adenus.com>]
Sent: Thursday, December 22, 2016 8:41 AM
To: Allen Rather; George Garden
Cc: Jeff Riden
Subject: Contact information

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Allen and George, since I didn't have any business cards available on Monday, I wanted to pass on my contact information.

Also, I would like to call and talk to someone about a few things: The Maple Green permit modification application and what is going to necessary for submittal/approval. And the soils availability at Windover for the Loague Road Treatment Facility, there seems to be a discrepancy with the calculations/findings of area.

If one of you gentleman would happen get a chance to call and discuss, that would be great. Or give me a good time to call, and tell me who to call, I will .

Thanks,



Marshall Fall, P.E.

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 Ridsen

From: Marshall Fall
Sent: Wednesday, December 28, 2016 10:09 AM
To: George Garden
Cc: Brad Harris; Allen Rather; Jeff Ridsen; Charles Hyatt
Subject: RE: 161228_Maple Green SOP

Thank you George! Currently the design of the additional ~5.3 acres of drip on the North side of the pond is complete. The plan and calculations will be submitted for construction approval along with the sand filter design. I will be working on the PER this week after consulting with others on what may be the best approach, three small filters, two medium filters or one large filter. This will be addressed within the PER in detail.

I will also look into the collection system plans for the Hotel.

Thanks,

Marshall

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Adenus
Marshall Fall, P.E.
Chief Technical Officer

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