

Carmen Cadenas

From: Carmen Cadenas
Sent: Monday, December 11, 2017 4:29 PM
To: 'cgermana@germanaengineering.com'
Subject: Eastside Veterinary Hospital (IND-069-41378-3)

Hi Chris,

I reviewed the calculations and plans you uploaded today and I have few comments:

1. The required treatment volume does not include the area for Pre-Basin 2 Off Site (0.11 acres). Please revise.
2. The top elevation of the Type C overflow structure was not updated. Please update top elevation after the required treatment volume is revised. Also update the initial stage in the pond input data for the recovery analysis.
3. The calculations for the pre-development 25-year/96-hour volume includes the volume from the Off-Site Pre 2 Basin while the post-development volume calculations do not include that basin. The only basin that has a volumetric pre-post difference is the on-site basin. Is there a particular reason why Off-site Pre 2 was included in the volumetric difference calculations only for the pre-development? Please clarify.
4. Once we have the final version of the calculations and plans, we will need an updated "signed and sealed" document. It does not have to be original, you can print it, sign and seal and upload it in e-permitting.

Also, FYI, the application number has been changed to IND-069-41378-3 to link the project to Pine Valley Industrial Park.

If you have any questions, please do not hesitate to contact me.

Thank you for your assistance,

Carmen Cadenas, P.E.
Engineer II

Division of Regulatory Services
St. Johns River Water Management District
Maitland Service Center

601 South Lake Destiny Road, Suite 200 • Maitland, FL 32751

Office: (407) 659-4809

Email: ccadenas@sjrwmd.com

Website: sjrwmd.com

Connect with us: [Newsletter](#), [Facebook](#), [Twitter](#), [YouTube](#)



www.sjrwmd.com/epermitting

From: Carmen Cadenas

Sent: Monday, December 4, 2017 2:51 PM

To: 'cgermana@germanaengineering.com' <cgermana@germanaengineering.com>

Cc: Allyson Burke <aburke@sjrwmd.com>; Sandra Joiner <SJoiner@sjrwmd.com>

Subject: Preliminary Review of Eastside Veterinary Hospital (IND-069-151849-1)

Hi Chris,

Based on a preliminary review of the information submitted on November 20, 2017 for the Eastside Veterinary Hospital project **IND-069-151849-1**, the following issues need to be addressed:

1. Please demonstrate that the required treatment volume will be retained in the pond and recovered within 72 hours.
 - (a) The proposed project is located within the Lake Apopka Hydrologic Basin. The drainage report indicates that the land-locked basin criteria will be used as the treatment option to meet the total phosphorus criterion. Systems considered to discharge to a land-locked basin must meet the criteria in Section 3.2. 1(c) of the Applicant's Handbook, Vol. II, which requires that the post-development volume of direct runoff does not exceed the pre-development volume of direct runoff for the 25-year frequency, 96-hour duration storm. Please provide this volumetric analysis. Please note that when using this option, the applicant must comply with the monitoring requirements in Section 13.7(b).
 - (b) An on-line dry retention system must provide retention of the first one inch of runoff from the drainage area or 1.25 inches of runoff from the impervious area plus an additional one half inch of runoff from the drainage area, whichever is greater. Please make sure that the total impervious area includes the impervious areas from the off-site drainage basins. Please revise calculations.
 - (c) Update the top elevation of the Type C overflow structure.
 - (d) Update initial stage in the pond input data for the recovery analysis.
2. The dry retention pond must be stabilized with permanent vegetative cover. Please include a note in the construction plans to address this requirement or provide the landscape plans for the project.
3. The structure table in Sheet C-5 lists pipe P-5 as "out" for the Type C Inlet (Outflow Structure). According to the invert elevations, pipe P-5 should be listed as "in". Please update label.
4. A point-source discharge is generated by the Type C Inlet (Outflow Structure) at Pine Valley Boulevard. Please clarify where pond overflow will be conveyed to. Please demonstrate that the existing hydraulic conveyance patterns are maintained.
5. Please include filter fabric in the detail that shows the 12" cored hole in the Outflow Structure to provide stability and avoid erosion. An alternative to the sump is to drain water back to the pond by changing the inverts of pipes P-4 and P-5.

Please address these comments by December 11, 2017.

If you have any questions, please do not hesitate to contact me.

Thank you for your assistance,

Carmen Cadenas, P.E.
Engineer II

Division of Regulatory Services
St. Johns River Water Management District
Maitland Service Center

601 South Lake Destiny Road, Suite 200 • Maitland, FL 32751

Office: (407) 659-4809

Email: ccadenas@sjrwmd.com

Website: sjrwmd.com

Connect with us: [Newsletter](#), [Facebook](#), [Twitter](#), [YouTube](#)



www.sjrwmd.com/epermitting