

Technical Guidance Committee Meeting Minutes

Wednesday, May 6, 2020

This meeting took place via telephone and Zoom web conferencing.

TGC ATTENDEES:

Peter Adams - Onsite Wastewater Analyst, DEQ (TGC Chairman)
Rachael Smith, REHS - Source Water Coordinator, DEQ (Co-Chair for this meeting only)
Kellye Johnson, REHS - Director of Environmental Health, EIPH
Jason Peppin, REHS - Senior Environmental Health Specialist, PHD
Mike Reno, REHS - Environmental Health Supervisor, CDHD
Joe Canning, P.E. – B&A Engineers Inc.
Kendall Unruh – WEB, Inc. dba/Western Septic & Excavation

GUESTS:

Lori Flook – Administrative Assistant, DEQ
Larry Waters – Wastewater Engineering Bureau Chief, DEQ
Lisa O’Hara – Office of Attorney General, DEQ
Paree Godsill – Everlasting Concrete Products
Jay Holman – Infiltrator Water Technologies
Dick Bachelder – Infiltrator Water Technologies
Jason Henderson – Geomatrix, LLC
Dave Potts – Geomatrix, LLC
Dave Lowe – Lowridge Onsite Technologies
Chris Ellis – Land Development Senior, SWDH

CALL TO ORDER AND ROLL CALL

Meeting is called to order at 9:34 a.m.

Introductions were done by committee members and guests. Rachael mentioned that she would be facilitating the meeting with Peter’s help to introduce him to how the meeting should be conducted. In the future Peter will assume that role.

Public Comment Period:

Rachael Smith opened the meeting for public comments. No public comments were received during this time.

APPENDIX A

Action Item – December 4, 2019 Draft TGC Meeting Minutes

Rachael asked if any corrections needed to be made to the minutes from the previous meeting. None were needed.

Motion: Joe Canning

Second: Mike Reno

Verbal Vote: Unanimously passed. Minutes stand approved and will be posted to DEQ’s website within 30 days.

OLD BUSINESS

APPENDIX B

Action Item - Review of OSCAR-II Treatment System Large OSS Design Manual

Joe Canning stated his firm is working with a contractor that may be using the OSCAR II system so he removed himself from the discussion.

Time was turned over to Dave Lowe with Lowridge Onsite Technologies – Mike Reno started the discussion by mentioning that the TGC can only approve what has been NSF tested. The TGC can review and accept the manual, but with exceedances over 1500 gallons a day, it would have to go through DEQ’s approval process. Many members agreed the manual will be very helpful and commented on liking the way it was put together. Kellye mentioned a small error on page 9 under the heading labeled “Tanks”. The manual reads “All tanks must conform to IDAPA 58.01.03.007. Septic tanks should be sized to 2 to 3 times the daily design flow”, but should read “*twice* the daily design flow”. Dave mentioned changing the wording on page 3, paragraph 3 that reads “In soil groups C1 & C2 only OS-50 coils can be used” to say “In soil groups with zero percent slopes only OS-50 coils can be used.” On page 5 under the heading labeled “Hydraulic Layout,” Dave agreed to change “no module can exceed 10,000 gallons per day design flow” to “1,500 gallons per day design flow.” Dave also agreed to re-do Table 1 on Page 5 of his manual and remove any wording throughout that references over 1500 gallons/day. Jason Peppin pointed out that the table in Appendix G of the manual could use reduced effective soil depths. After much discussion and noticing discrepancies in wording and page numbers, it was realized that Dave was working off of a newer version of his companies’ manual than what was distributed to the members for the meeting. Dave will make all necessary changes and send the updated manual to Peter for review at the next meeting.

No motion was needed since the committee can’t approve the manual at this time.

APPENDIX C

Action Item – Revised Design and Installation Manual for the Infiltrator ATL™ System AND Revised Design and Installation Manual for Advanced Enviro-Septic® Wastewater Treatment Systems

Time was turned over to Dick Bachelder with Infiltrator Water Technologies. He started by asking the committee about the red-lined section of the ATL manual titled, *Capping Fill Systems*. Mike Reno recommended that the above-grade cap and fill language reflect what the TGM says so after discussing it was decided that Infiltrator will edit the first bullet point in that section that states, “If any aspect of the capping soil system is above grade, the natural soil must be scarified...” by removing the reference to the need for scarifying. Joe Canning asked about the effectiveness of having hyperlinks included in the manual and how was Infiltrator going to ensure that they were always up-to-date. Dick did not have an immediate solution, but the hyperlink was allowed to remain. Moving on the AES manual, Kellye

Johnson asked about the bullet point, “Minimum Sizing 200gpd”, under the *Unique Requirements* section of the AES Quick Reference Guide and recommended it be changed to 150gpd. Dick asked about deleting that bullet point completely and committee agreed it was ok to do so since page is a reference guide. Mike Reno suggested that the *AES in Above-Grade Capping Fill System* diagram be edited to resemble the *ATL in Above-Grade Capping Fill System* diagram with minimum and maximum depths. Dick requested that the manual be approved based on the changes that were discussed.

Motion: Mike Reno

Second: Kendall Unruh

Verbal Vote: Unanimously passed. Dick will send the edited manual to Peter.

Meeting was adjourned for a 10 min break until 11:15

APPENDIX D

Action Item – GeoMat™ Leaching Systems Revised Design Manual

The time was turned over to Dave Potts and Jason Henderson with Geomatrix, LLC to discuss edits to their manual. The TGC suggested that all references to “ASTM C-33 sand” be changed to “manufactured medium sand.” On page 3 of their GeoMat Leaching Systems design manual it was suggested that they should change the wording in the *GeoMat in a Sand Bed Configuration* section, second bullet point, to read, “a minimum of 6 inches and a maximum of 36 inches of manufactured medium sand must extend horizontally past all edges of the GeoMat product in a bed configuration.” On page 3 of the manual in the section titled “*GeoMat in Mound Configuration,*” it was suggested that the word “topsoil” in the second bullet point be modified to “soil equivalent to native soil in the area of installation” in order to closer align to the TGM. In the same section, it was suggested that last bullet in that section be edited to read, “... it shall maintain the 2% pitch for a minimum of 24 inches beyond the outermost edge of the GeoMat and then run *at least* a 3:1 slope to original grade” or include the verbiage “whichever is greater”. The TGC recommended that table numbers be added to all the tables in the manual. On page 5 of the manual, it was suggested that the title of the first table be changed from “Minimum Surface Area Required” to “Minimum Surface Area Required for Trenches and Beds.” On page 6 of the manual, the committee asked that the phrase “the following tables” be omitted and replaced with table numbers. On page 7, the TGC requested that the sentence “For all applications other than single family residential applications, contact Geomatrix or a Geomatrix certified design professional for assistance” be omitted or revised, due to the confusion it could cause during the installation and permitting process. For the tables on pages 8-12, the committee advised Geomatrix to revise the lineal feet listed to comply with the minimum requirements of the Rule. Several other minor edits to those tables were suggested, and GeoMat agreed to revise all of the tables. On page 22 of the manual, the TGC requested that the tables titled “GeoMat Leaching System on Edge” be removed.

Motion: Joe Canning

Second: Kendal Unruh

Verbal Vote: Due to the extensive nature of edits needing to be made to the manual, the committee voted to table approval until the next meeting when updated manual could be reviewed.

APPENDIX E

Action Item – TGM Section 3.2.8.1.2 Medium Sand

No public comments were received.

- Discussed input from health districts regarding sieve percentages. Health district representatives stated that available responses from sand pits confirmed that their manufactured medium sand conforms to the proposed edits to the TGM.

Motion: Joe Canning

Second: Kellye Johnson

Verbal Vote: Unanimously passed. TGM will be updated to reflect edits.

APPENDIX F

Action Item – TGM Section 1.4.2.2.1 Provisional ETPS Approval and TGM Section 4.8.2 Extended Treatment Package System Approval Conditions

No public comments were received.

Motion: Kellye Johnson

Second: Mike Reno

Verbal Vote: Unanimously passed. TGM will be updated to reflect edits.

APPENDIX G

Action Item – TGM Section 4.13 Gray Water System

No public comments were received.

Motion: Mike Reno

Second: Joe Canning

Verbal Vote: Unanimously passed. TGM will be updated to reflect edits.

APPENDIX H

Action Item – TGM Section 4.19.3.2 Pressurization Unit

The committee discussed adding larger residual head calculations to the *Pump/Run Times* table and decided on editing the residual head to state “R = Residual Head (2.5-10 feet)”.

Motion: Joe Canning

Second: Mike Reno

Verbal Vote: Unanimously passed to preliminarily approve with edits. Will post to DEQ's website for new public comment period and discuss at next meeting.

NEW BUSINESS

APPENDIX I

Action Item – TGM Section 4.3.3 Above-Grade Capping Fill System

Discussed re-introducing the compaction requirements for Above-Grade Capping Fill systems that were removed during the July 22, 2015 TGC meeting. Peter suggested included a compaction statement, but not requiring a test and it was decided that more research needed to be done to see why requirement was taken out in 2015. Peter will look into it and re-address at next meeting.

Motion: Kellye Johnson

Second: Mike Reno

Verbal Vote: Unanimously agreed to table approval until revisited at next meeting.

APPENDIX J

Action Item – TGM Section 4.5.3.2.7 Additional Design Requirements for Septic Tank Effluent Drip Distribution Systems

The committee discussed changing 4.5.3.2.7 to be in line with 4.5.3.1.5 by allowing for disc filters that may not be flushable on every cycle. Jason realized after discussing with the committee that he needed to get more guidance and the topic should be tabled until next meeting.

Motion: Jason Peppin

Second: Kellye Johnson

Verbal Vote: Unanimously agreed to table approval until revisited at next meeting.

APPENDIX K

Action Item – TGM Section 1.5.1.5 Installer's Registration Permit and Service Provider Certification Application, Bond, Fee, Training, and Exam

The committee discussed removing the word "annual", when referring to how often to require service provider to provide certification, to better align with IDAPA 58.01.03.006.06.a.

Motion: Kendall Unruh

Second: Mike Reno

Verbal Vote: Unanimously passed to approve with edit. Will post to DEQ's website for public comment and discuss at next meeting.

APPENDIX L

Action Item – TGM Section 4.24.5 Inspections

The committee discussed modifying the language to clarify the intention of a preconstruction conference, but it was decided that because the nature of the conference is at the Health District's discretion the language should remain unchanged, but that more education would need to be done with the installers. The decision was made to leave the language as it currently is so no motion was needed.

Discussion Items

On-site Wastewater Program Update

Peter Adams said that the negotiated rulemaking revisions to IDAPA 58.01.03 are finished, and the final comments are being considered. He also said that the Rules Governing the Cleaning of Septic Tanks (58.01.15) have been incorporated into 58.01.03, and that 58.01.15 is now an archived rule. Kellye Johnson replied that DEQ and the health districts will need to communicate about this change in regards to potentially revising the language appearing on the licenses of septic tank installers and pumpers. Next, Larry Waters discussed the need for any future substantial technical revisions to the TGM to be supported by peer-reviewed science, to make it easier to potentially incorporate portions of the TGM into the Rule in the future.

Before moving to scheduling the next meeting, Dick Bachelder of Presby/Infiltrator commented that due to the requirements for NSF testing in TGM Section 1.4.2.4, all manufacturers should produce minimum specifications that match the parameters of the NSF standards in order to be approved by the TGC. He stated that he will be changing some of the specifications of the Presby AES Manual to be more in line with how it was tested by NSF.

NEXT MEETING

It was decided that the next meeting would be scheduled for August 6, 2020 at 9:30AM to be held at the Idaho Department of Environmental Quality state office.

Motion: Kendall Unruh

Second: Joe Canning

Verbal Vote: Unanimously passed to adjourn the meeting at 2:50 p.m.