

ALTERNATIVE/EXPERIMENTAL WASTEWATER TREATMENT TECHNOLOGIES
TECHNICAL REVIEW COMMITTEE (TRC)

The meeting was held at the Quonset Development Corporation Annex
95 Cripe Street, North Kingstown, RI

January 22, 2010

Draft Minutes

Present: Ken Anderson, Noel Berg, Dave Burnham, Russ Chateaufneuf, Joe Frisella, George Loomis, Brian Moore, Tim Stasiunas and Dennis Vinhateiro

Absent: Susan Licardi,

Others Present: Deb Knauss (DEM)

Call to Order: 8:45 AM

Materials Distributed:

- Draft Agenda for this meeting
- Draft Minutes of 11/4/09 meeting
- Draft edited SFGD cover letter and draft edited Sand Filter Guidance Document and figures
- Approval-format draft for Geoflow

Minutes of November 4, 2009

On Page 1, in the first sentence at **Treatment System Reliability and Risk as a Function of System Attributes – Related to Leachfield Area Reduction**, edit as indicated below:

“George suggested that a risk-based approach to considering reductions allowed for required leachfield area could be set as...”

On Page 2, in the paragraph beginning: “Joe requested...” change “renew” to “review”.

On Page 2, in the first sentence, of the first paragraph beneath “**Geoflow**”, change “send” to “sent”.

On Page 2 in the first sentence of the fourth paragraph beneath “**Geoflow**”, change “started” to “stated”.

On Page 3 at the paragraph that begins: “Concrete sand and ISDS gravel...”, delete the paragraph and replace with “When backfilling is required following removal of soil from the area in which a PSND is being installed, ASTM C-33 sand shall be specified.”

On Page 3 at the paragraph beginning “Table – 3 interlayer material discussion...”: replace paragraph with the following: “Table – 3 interlayer material is required by Note 4 to be ASTM C-33 sand. Discussion of other potential matrix materials for this purpose resulted in agreement to retain ASTM C-33 sand as the required material for an interlayer where required by note 4: concrete sand is looser than ASTM C-33 which species 5 – 7 % fines passing a 200-mesh screen; OWTS gravel; BSF sand (1% fines passing a 200-mesh screen).”

On page 4: in the paragraph beginning “Joe asked”, in the first sentence, change “filed” to “field”.

Motion: Dave made a motion to accept the minutes with the necessary edits.

Second: Joe seconded the motion.

Discussion: There was no discussion.

Vote: Ken abstained as he was not present at the November meeting; all other present who were present at the November meeting voted to approve the minutes with the noted edits.

Draft New PSND Specifications for Addendum to SFGD

The utility of gate valves was discussed and it was decided to delete the references from the section Distribution Manifolds and Lines and deal with them only in the section addressing trenches at different elevations and to cite them before orifice plates.

It was requested that Deb add to the transmittal letter some statement about DEM working on a future guidance on pressurize leachfields.

The definition of “Dosing tank” needs a typographical error corrected: “wastewater is discharged ~~to~~ into...”

The glossary needs a definition of PSND and of advance-treated wastewater.

Russ asked the group to get additional comments to Deb by the end of the day next Tuesday, and that barring request for substantive editing, and unforeseen obstacles, the document will be posted to the DEM website and announced via the OWTS listserv next Wednesday.

The group reviewed the figures that George and David Kalen developed and made the following comments:

Category 2 PSND pump tank Option 1: delete pipe sizes, or add “typical” to each of the figures with dimensions specified.

Category 2 PSND pump tank Option 3: the filter housing is connected to the 1” transport line; superimpose an upward pointing arrow on the filter picture to the right of the tank cross section.

Category 1 PSND pump basin: delete the proprietary identification of the pump; delete the elevations; change the diameter dimensioned the PVC basin from 30-inch to 24-30 inch and delete the volume of concrete and add parenthetically “if required”.

Geoflow

On page one in the second paragraph, delete “daily” from the three design flow references. Make a new sentence at “For high strength wastewater...” and specify that for design flows off 2000 gpd or larger, the volume of the dosing tank must be two-times the design flow, two-times the average daily flow or 1.5-times the peak flow, which ever is greater.

Add the text from page 10 of the application which requires that designs for systems with wastewater greater than BOD/TSS of 30/30 mg/L, Geoflow, Inc. must review and approve the design.

On page 2, beneath Design Requirements:

- at number 1, add mg/L after “30/30”;
- at number 2 beneath Design Requirements, edit to read “Pressure compensating emitters are required for all installations.”;
- at number 4, spell out “schedule” and change “tube” to “tubing”;
- at number 5, edit to read: “All designs must incorporate the directions specified in the “Winterization” section of the design and installation manual to prevent freezing.”
- at number 7, in the first sentence, edit the horizontal separation distance from ten-feet to five. Edit the second sentence to read: “The adjacent side slope shall not be steeper than 3:1 (horizontal:vertical) for a twenty-five (25) foot minimum distance from the edge of the Component.”

On page 3, still in the Design Requirements section:

- at number 10, edit to read: “Wastewater delivered to the Component must be time dosed”.

On page 5, beneath Operation and Maintenance change all references to “O&M provider” to “service provider”.

In the Operation and Maintenance section at number 7 edit the second sentence to read: “The names of at least two qualified service providers unaffiliated with suppliers of the Component shall be included on the list at all times.”

In the Reporting section, edit from “O&M” provider to “service” provider.

Motion: Dave made a motion to approve Geoflow WASTEFLOW™ PC with the edits to the draft approval-style document that were discussed.

Second: Joe seconded the motion.

Discussion: There was discussion of the appropriateness of using the term “high strength” on the first page in the second paragraph. There was discussion of whether a filter should be required and if so, which of the filters identified in the Geoflow application: if using non-time dosed advanced treatment technology (Category 2) one of the three filters must be used, selected at the discretion of the Vendor and the designer.

On Page 1 add 2000 gpd to the Vendor review sentence.

Amended Motion: Dave amended the motion to approve Geoflow WASTEFLOW™ PC with the edits to the draft approval-style document that were discussed and with the following specified edits:

- If using non-time dosed advanced treatment technology (Category 2) one of the three filters must be used, selected at the discretion of the Vendor and the designer.

- On Page 1 add 2000 gpd and larger to the Vendor review requirement of systems with TSS/BOD greater than 30/30 mg/L.

Second: Joe seconded the amended motion.

Vote: All present voted in favor of the amended motion.

Draft Proposed OWTS Rules Revision

Russ informed the group that DEM is nearly ready to provide public notice of the proposed OWTS Rule revisions. The TRC is removed from the Rules in this revision, although technology review work by the TRC with DEM will continue as it currently is. This change is not intended to reduce the strength of the recommendations made by the TRC; it is an effort to alleviate the pressure of meeting the Secretary of State's reporting deadlines for draft and approved minutes. Providing public notice of a public meeting will continue. Russ will check with DEM legal counsel to verify that this proposed change will not reduce the strength of recommendations made by the TRC.

Next Meeting

The next meeting was scheduled for March 5th at 8:30 am, pending availability of the QDC Annex.

Topics for Next Meeting

Pea stone

Leachfield reduction issue: associate reduction allowed with risk of treatment inconsistency

SeptiTech denite application

Adjournment

Motion: Ken made a motion to adjourn.

Second: Dave seconded the motion.

Discussion: There was no discussion.

Vote: All present voted in favor of the motion.

Next Meeting

The next meeting to be held at the QDC conference room, the target date, pending conference room availability is March 5, 2010 at 8:30.

The meeting adjourned at 12:25 PM.