



Meeting Agenda/Summary

Water Quality Division: On-Site Wastewater PPL TWG
Meeting 6: Tuesday, December 6, 2021 **10 am - Noon**
(See Link to Google Meets in Calendar Invite)

Members in Attendance:

- | | |
|---|---|
| <input type="checkbox"/> Ashley Chatfield, Maricopa County Environmental Services | <input checked="" type="checkbox"/> Michael Stidham, EZ TREAT, INC |
| <input checked="" type="checkbox"/> Bryan Chiordi, Essential Operations | <input checked="" type="checkbox"/> Michael Sundberg, MST Manufacturing DBA MicroSepTec |
| <input type="checkbox"/> Todd Christianson, Premier Environmental Products, LLC | <input checked="" type="checkbox"/> Fred Vengrouskie, Eljen Corporation |
| <input type="checkbox"/> Suzanne Ehrlich, Yavapai County | <input checked="" type="checkbox"/> Joelle Wirth, Summit Environmental, LLC |
| <input type="checkbox"/> Marc Fleetwood, Fleetwood Engineering | <input checked="" type="checkbox"/> Ray Morgan, ADEQ |
| <input checked="" type="checkbox"/> Karthik Kumarasamy, ADEQ | <input type="checkbox"/> Jim King, Eljen |
| <input checked="" type="checkbox"/> Linneth Lopez, ADEQ | <input type="checkbox"/> Dick Bachelder, Infiltrator Water Technologies |
| <input checked="" type="checkbox"/> Nicholas Noble, Orenco Systems Inc | <input type="checkbox"/> David Lentz, Infiltrator |
| <input type="checkbox"/> Naveen Savarirayan, ADEQ | <input type="checkbox"/> Heidi Welborn |

Agenda (Est Time)	Lead	Overview	NOTES
Review SAR Examples			<p>The group reviewed the SAR examples. Is there still a level of safety in the SARs table when performance credits are used. Need to address this as we work on the tiers.</p> <p>Discussion</p> <ul style="list-style-type: none"> • Does EPA have any guidelines • We are not looking at the systems so we are not sure if there are any failures • Need to reach out to the counties to see if they are seeing failures due to the smaller disposal fields • Just because we have not have had failures does not mean this is good science and the basis on how we design systems • I think we need remember that the dirt is the most valuable piece of the treatment train ... Is it ethically correct for us to push the limits of aggressive loading • Arizona is inconsistent with what is happening elsewhere in the country • People are opportunistic and looking for ways to reduce the disposal field

			<ul style="list-style-type: none"> • Arizona is more conservative in SAR values • What is the life cycle expectancy and can the soil sustain the treatment for the life of the system • Is the major maintenance taking place when needed? • It is a high risk for the homeowner and the long-term soil performance • May need to revisit the formula • Bryan sent information from the EPA manual • What is the history of the formula? Never intended to go to the low numbers. • Service providers look at the condition of the filter to determine the condition of the system • Need to include in a tier system the operational cycle and life of the system • Financial impacts of drain field repair/replacement to homeowners can be significant ... what happens if they cannot afford it <p>Potential for a Tiered Approach:</p> <ul style="list-style-type: none"> • Treatment levels are restrictive based onsite conditions • Usually other states assigned performance standards delineated by effluent quality
<p>Definition of Typical Sewage</p>			<ul style="list-style-type: none"> • Arizona’s typical sewage especially for FOG would be considered high strength waste in other locations • The parameters don’t align with the NSF and other testing organizations • May need to have 2 different definitions • No of the PPLs were tested at the AZ typical sewage limits • Need to separate out commercial and residential and accommodate the low flow fixtures which increases the nitrogen • Regs mix high strength and residential waste • Code is does not exceed • Some states are moving to organic loading but NSF doesn’t have the organic numbers • In a municipal system, bad actors are diluted. More prone to have upset in a single-family home OWWTF. • Consider NSF or field testing as part of the PPL <p>Recommendation:</p> <ul style="list-style-type: none"> • Typical sewage should emulate the third-party testing rates. • Send input to Mike Sundberg • Need to research some more updated numbers which consider lower use fixtures (nitrogen and ammonia) – could do an analysis to determine impact if you take out the flow

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Hydraulic Loading Rates			The group reviewed the EPA Table 4-3. Team to review as homework.
Treatment Levels			Review the draft proposal of a tiered approach
Beneficial Reuse		Categories for intended use	Not discussed
Next Steps	Joelle	Open Discussion Next agenda topics	Next Meeting: December 14

Action Plan:

Task	Person Responsible	Due Date	Status
ADEQ to answer the industry the question about over reach and going beyond the rule today	ADEQ		
Examples to show formula concerns	Joelle		
Send input to Mike Sundberg re: typical sewage definition	All		