

Water Quality Division: On-Site Wastewater PPL TWG
Meeting 7: Tuesday, December 14, 2021 10 am - Noon
(See Link to Google Meets in Calendar Invite)

Members in Attendance:

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| <input checked="" type="checkbox"/> Ashley Chatfield, Maricopa County Environmental Services | <input type="checkbox"/> Michael Stidham, EZ TREAT, INC |
| <input checked="" type="checkbox"/> Bryan Chiordi, Essential Operations | <input 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 checked="" type="checkbox"/> Jim King, Eljen (GUEST) |
| <input checked="" type="checkbox"/> Linneth Lopez, ADEQ | <input checked="" type="checkbox"/> Dick Bachelder, Infiltrator Water Technologies (GUEST) |
| <input checked="" type="checkbox"/> Nicholas Noble, Orenco Systems Inc | <input type="checkbox"/> Heidi Welborn, Legal Specialist |
| <input checked="" type="checkbox"/> Naveen Savarirayan, ADEQ | |

Agenda (Est Time)	Lead	Overview	NOTES
Potential Tiered Program	All	Members to discuss the potential of a tiered program	<ul style="list-style-type: none"> • How many tiers? • Thresholds for the tiers? • Performance treatment levels for each tier? • How would PPLs work in the tier system? Certification or Listing? <p>What does Arizona want for its categories? Identify geographic areas or how do we create the categories?</p> <ul style="list-style-type: none"> • There are new onsite technologies coming that will get into the 5 range on Nitrogen and should keep this open as a tier • Some manufacturers do not allow homeowners to do their own maintenance (Orenco) • Potential tiers: put what is in rule into the tiers • Phosphorus removal is coming as well • Tiers should be based on effluent quality (not technologies)

			<ul style="list-style-type: none"> • Technologies approved based on the effluent quality tier and listed in each tier • Tiers can also be based on the potential risk to the environment and public health • Identify the areas within Arizona that would require advanced treatment (based on soils, groundwater level, etc.) • Should there be graywater treatment levels in the tiered approach • Ranges for the tiers should be based on the effluent quality • Have the nitrogen standards separate (a matrix of technologies and performance parameters). It is easier to identify technologies. • It is important to think about the designer when creating the tiers • This is on the right track • Some states require NSF certification (had dropped from 15 to 5) <p>Still need some guidelines on how technologies are reviewed and approved in the state.</p> <ul style="list-style-type: none"> • Ultimately treat the technologies as a black box except for the operations and maintenance until the field testing is complete • Review the Mural board on the future state PPL process <p>The group discussed how the tiers might define who is required to design a system.</p> <ul style="list-style-type: none"> • When there is a higher flow, the system can become more complex. • Typical sewage definition causes issues with system design <p>Discussion of design criteria with performance standards for each PPL and what should be included in rule.</p> <ul style="list-style-type: none"> • Having categories with a black box or specific requirements. • Is this prescriptive or just a black box looking at effluent • Future state may need 2 ways a prescriptive and a performance-based option • Like allowing designers to have flexibility but ADEQ has to be involved at a 50,000-foot level • Like the renewable operating permits with required sampling • Waste strength and flow need to be reviewed by the regulator • Have a prescriptive “thy shall” and a risk-based approach pathway to allow for innovation (risk) • Cleanup/update and keep what we have in rule and add a way to be more flexible with more responsibility • How to make the rules to be flexible for future PPL determinations?
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Status Report by end of December	Joelle	What should be provided to other TWGs as the status of this group?	<ol style="list-style-type: none"> 1. <u>PROBLEM</u>: What is the problem(s) you focused on? 2. <u>SOLUTION</u>: How do you propose to fix the problem? 3. <u>IMPLEMENTATION</u>: How would you implement this solution? 4. <u>OBSTACLES</u>: What are some barriers or challenges that will need to be overcome? 5. <u>ALIGNMENT</u>: What information do you need from other work groups? Or, what questions do you have for other groups?
Next Steps	Joelle	Open Discussion Next agenda topics	<p>Next Meeting: December 21, 2021</p> <p>Field testing outline: Nick Design</p>
SAR Formula			<p>Ray has not reviewed yet. The variables are moving outside the range that was anticipated in developing the formula. Need to do some calculations. This should be a priority for Arizona.</p>

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		Underway
Examples to show formula with rule numbers	Joelle		
Send input to Mike Sundberg re: definition	PPL TWG Members		
Do additional analysis on the SAR formula	Karthik		

Future State PPL Certification Process

