





RV Holding Tank Waste and Bio-inhibitor Discharges into Onsite Wastewater Treatment Facilities (OWTFs)

February 9, 2021 Stakeholder Meeting




Welcome  
ADEQ Staff Introductions

Matt Ivers, ADEQ  
Water Quality Division  
Groundwater General Permits  
and Reuse Manager




**Meeting Purpose**

Obtain input on rule clarification regarding how RV Parks may dispose of holding tank waste and use of bio-inhibitors




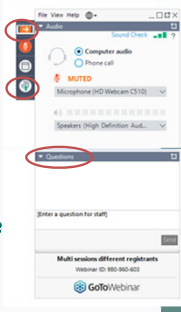
**Today's Agenda**

- Overview of Applicable Rules
- ADEQ Analysis
- Input from Stakeholders



**Online Tools**


- Muted
- Not Recording
- Using Poll Everywhere for Input



**Feedback During Webinar**

Go to Web Browser: (Computer or Phone)

- Enter the URL below:  
<https://PollEv.com/theresagunn114>
- Keep open during meeting



**Please select the option below that best describes you. (Select Only One)**

- Government Employee
- RV Park or Campground Owner
- Registered Sanitarian
- Engineer, Designer, Installer
- Pumper
- Product Manufacturer
- Tribal Nation
- Other

Start the presentation to see live content. For screen share software, share the entire screen. Get help at [polltv.com/app](http://polltv.com/app)

**How do RV Parks in Arizona typically dispose of the RV holding tank waste when the RV comes into the park?**

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**RV Park Permits**

**Stakeholder Request:**  
*Clarify how RV holding tank waste may be disposed*

- Type 1.09 Permit
- Type 4 Permit

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**Current Rule**

**Type 1.09 Permit**  
R18-9-B301(I)

- Up to 20,000 gallons
- Approved prior to 2001
- Operation
  - No contribution to violation of water quality standard
  - **Only treats typical sewage**
  - No hazardous waste/substances from commercial operations
  - No nuisance condition

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**Current Rule**

**Type 4 Permit**  
R18-9-A309(A)(7)

Operation

- **If wastewater flow is not typical sewage, pretreatment is required**
- No nuisance or unsanitary condition or cause/contribute to water quality standard violation
- **No activities at the site that adversely affects the treatment operation**

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**Analysis**


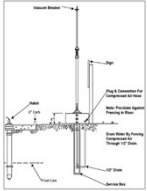
- RVs not connected to water produce high strength waste, which by rule ≠ typical sewage. (R18-9-101(46))
- RV waste is generally 7-8 times more concentrated than typical sewage

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**Potential Options**

- Hook-up to a sewer system
- Sewage Vault and Haul
- Pretreatment

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**Pre-Treatment Options**

- Larger disposal area (1.9x)
- Increase residence time
- Aeration/air stripping

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**Do you have any additional information regarding ADEQ's analysis of RV holding tank waste?**

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**If ADEQ was to prohibit RV holding tank waste from being discharged to an onsite wastewater treatment facility, what would be the impact?**


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**Bio-Inhibitors (Odor Control)**

**Stakeholder Request:**  
*Clarify if bio-inhibitors may be used in holding tanks*



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**Bio Inhibitors (Odor Control)**

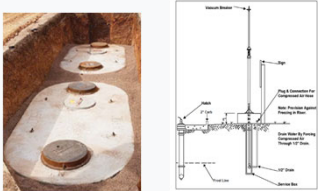
(Use without water hookup)

- Some inhibit biological processes that break down wastes
- Discharging likely to “adversely impact” an onsite facility’s ability to function
- May also bolster high strength waste

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**Potential Options**

- Hook-up to a sewer system
- Sewage Vault and Haul
- Pretreatment



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**Bio-Inhibitors Challenges**

ADEQ has limited information to make a determination of environmental and economic impacts

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**What updated information do you have regarding bio-inhibitors? Any studies or data?**

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**If ADEQ was to restrict bio-inhibitor use in an RV holding tank that is dumped into the onsite wastewater treatment facility what would be the impact?**

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**Please list any other issues related to RV Park onsite wastewater treatment systems.**

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**NEXT STEPS**

ADEQ will utilize your comments to inform changes needed to the existing rule.

**Provide Additional Comment Online**  
<https://www.surveymonkey.com/r/RVWaste>  
**Deadline: Feb 23**

**Draft Rule Language:**  
 Tentative May 2021

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**CONTACT**

Submit Rule Comments Online  
<https://www.surveymonkey.com/r/OSWTR>  
Deadline: February 12, 2021

[azdeq.gov/onsitewastewater](https://azdeq.gov/onsitewastewater)

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