

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 12, 2024

Mr. Mark Smith, Business Development
Global Inventive Industries, Inc. DBA ECOJOHN
6148 Getty Drive,
North Little Rock, Arkansas, 72117

Re: Approval of proprietary On-Site Sewage Facility (OSSF) treatment system for:
ECOJOHN
Septic John Models: WC5, WC32, WC48, and WC64

Dear Mark Smith:

We have received your request for a Texas Commission on Environmental Quality (TCEQ) review of the above-referenced proprietary system, with supporting documentation, on May 7, September 4, September 10 and September 24, 2024. Cindy Rojas Annicchiarico of the TCEQ Technical Programs Team conducted the review, as required by 30 Texas Administrative Code (TAC) §285.5(b)(3). After reviewing your request and supporting documentation, TCEQ has determined that Septic John models WC5, WC32, WC48, and WC64 meet applicable technical requirements for OSSF treatment products. **This letter serves as notification of approval for use in the State of Texas as an approved proprietary system and replaces the previously issued approval letter issued on September 25, 2024^[1].** Please be advised, the review of individual OSSF applications is a separate action and this letter is not an authorization to install an individual OSSF.

This approval for Septic John models WC5, WC32, WC48, and WC64 is based on:

1. The testing of the WC5 model under NSF Protocol P157 for Electrical Incinerating Toilets.
2. NSF Scale-up report which stated that the WC32, WC48, and WC64 models meet the criteria of demonstrating improved efficiency as the models' size increases. NSF added the following systems to listing, without further testing: WC32 (Rated Daily Use: 4 people), WC48 (Rated Daily Use: 8 people), and WC64 (Rated Daily Use: 16 people). Additional technical information for all models is summarized in Table 1.

Septic John Model	Number of People	Capacity (Gallons per Day)
WC5	2	37
WC32	4	75
WC48	8	150
WC64	16	300

Table 1. Technical Information for Septic John Models: WC5, WC32, WC48, and WC64 as cited on the Owner's Manual

The Septic John WC5 (Rated Daily Use: 2 People Per Day), WC32, WC48, and WC64 are designed to treat wastewater from a waste tank. Through the treatment process, wastewater is burned by propane, natural gas, or diesel fuel producing a sterile ash. The size of the system and waste tank is based on water usage. TCEQ recommends the following guidance for the waste tank:

- If water usage is based on peak flow the OSSF treatment system design shall follow the requirements for pump tanks, and the waste tank shall be sized according to 30 TAC §285.34 (b)(2)(3).
- If water usage is based on average flow the OSSF treatment system design shall follow the requirements for equalization tanks, and the waste tank shall be sized according to 30 TAC §285.34 (b)(4).

A grease interceptor shall be used on kitchen waste-lines from institutions, hotels, restaurants, schools with lunchrooms, and other buildings that may discharge large amounts of greases and oils to the OSSF. The grease interceptor shall be sized according to 30 TAC 285.34 (d).

Please note that this approval letter does not include air permitting authorization for emissions produced during the treatment process. An appropriate air authorization must be obtained through the TCEQ Air Permits Division prior to installation. The following link provides more information on the air permit application: <https://www.tceq.texas.gov/permitting/air/guidance/newsourcereview/nsrapp-tools.html>. We advise contacting the TCEQ Air Permits Division at airperm@tceq.texas.gov or 512-239-1250 before submitting any air permit application.

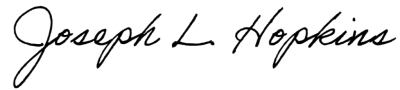
Additionally, please note that this approval letter does not include solid waste disposal authorization for solid waste materials produced during the treatment process. Ash materials produced through the use of the wastewater incinerator systems are not authorized for on-site disposal or use as fertilizer or compost material. Disposal of ash materials must be disposed of in accordance with all federal, state, and local requirements. An appropriate biosolids authorization may be required and can be obtained through the TCEQ Water Quality Division prior to installation. The following link provides more information on biosolid permits: <https://www.tceq.texas.gov/permitting/wastewater/sludge>.

Mark Smith
Page 3,
December 12, 2024

We advise contacting the TCEQ Biosolids Team at biosolids@tceq.texas.gov or 512-239-5141 or 512-239-4671 before submitting any biosolid permit application.

If you have any questions, or if we may be of assistance to you, please contact Cindy Rojas Annicchiarico in the TCEQ Technical Programs Team at (512) 239-5146 or via e-mail at Cindy.Annicchiarico@tceq.texas.gov.

Sincerely,



Joseph L. Hopkins, P.G.
Technical Programs Team Leader
Texas Commission on Environmental Quality

JLH/CRA

Enclosure: ^[1]EcoJohn proprietary product approval letter issued September 25, 2024

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 25, 2024

Mr. Mark Smith, Business Development
Global Inventive Industries, Inc. DBA ECOJOHN
6148 Getty Drive,
North Little Rock, Arkansas, 72117

Re: Approval of proprietary On-Site Sewage Facility (OSSF) treatment system for:
Ecojohn
Incinerator Toilets Models: WC5, WC32, WC48, and WC64

Dear Mark Smith:

We have received your request for a Texas Commission on Environmental Quality (TCEQ) review of the above-referenced proprietary system, with supporting documentation, on May 7, September 4, September 10 and September 24, 2024. Cindy Rojas Annicchiarico of the TCEQ Technical Programs Team conducted the review, as required by 30 Texas Administrative Code (TAC) §285.5(b)(3). After reviewing your request and supporting documentation, TCEQ has determined that the Incinerating Toilets WC5, WC32, WC48, and the WC64 models meet applicable technical requirements for OSSF treatment products. **This letter serves as notification of approval for use in the State of Texas as an approved proprietary system.** Please be advised, the review of individual OSSF applications is a separate action and this letter is not an authorization to install an individual OSSF.

This approval for the Incinerating Toilets WC5, WC32, WC48, and the WC64 models is based on:

1. The testing of the WC5 model under the NSF Protocol P157 for Electrical Incinerating Toilets.
2. NSF Scale-up report which stated that the WC32, WC48, and WC64 models meet the criteria of demonstrating improved efficiency as the models' size increases. NSF added the following systems to listing, without further testing:
 - WC32 - Rated Daily Use: 4 people
 - WC48 - Rated Daily Use: 8 people
 - WC64 - Rated Daily Use: 16 people

The ECOJOHN incinerator toilets WC5 (Rated Daily Use: 2 People Per Day), WC32, WC48, and WC64 are designed to incinerate wastewater from a waste tank (holding tank). Through the incineration process, the wastewater water gets burned by propane, natural gas, or diesel fuel, and the only thing that remains is a small amount of sterile ash. The size of the system and holding tank is based on usage.

Please note that this approval letter does not include air permitting authorization for any emissions produced during the treatment process. An appropriate air authorization must be obtained through the TCEQ Air Permits Division prior to construction / installation. The following link provides more information on the De Minimis air permit application, which you must request from the air permit department at TCEQ:

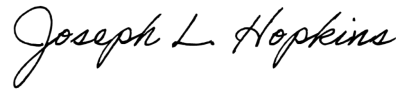
<https://www.tceq.texas.gov/permitting/air/guidance/newsourcereview/nsrapp-tools.html>. We advise contacting the TCEQ Air Permits Division at airperm@tceq.texas.gov or 512-239-1250 before submitting any air permit application.

Mark Smith
Page 2,
September 25, 2024

Additionally, please note that this approval letter does not include solid waste disposal authorization for solid waste materials produced during the treatment process. Ash materials produced through the use of the incinerating toilets are not authorized for on-site disposal or use as fertilizer / compost materials. Disposal of ash materials must be disposed of in accordance with all federal, state, and local requirements.

If you have any questions, or if we may be of assistance to you, please contact Cindy Rojas Annicchiarico in the TCEQ Technical Programs Team at (512) 239-4156 or via e-mail at Cindy.Annicchiarico@tceq.texas.gov.

Sincerely,

A handwritten signature in black ink that reads "Joseph L. Hopkins". The signature is written in a cursive style with a large, stylized "J" and "H".

Joseph L. Hopkins, P.G.
Technical Programs Team Leader
Texas Commission on Environmental Quality

JLH/CRA