



**County of San Diego**  
**Department of Environmental Health and Quality**  
*Land and Water Quality*  
5500 Overland Ave., Suite 210, San Diego, CA 92123 / (858) 565-5173  
[www.sdcdehq.org](http://www.sdcdehq.org)

**ONSITE WASTEWATER TREATMENT SYSTEM LAYOUT APPROVAL**  
**EXPIRATION DATE: 6/3/2025**

**Owner:** Gilas Michael&Julia  
**Address:** 9703 Upas Ln  
Escondido, CA 92029  
**Phone:**  
**Site:** 9703 UPAS LN, ESCONDIDO  
**Parcel:** 270-141-16-00  
**Certification:** Rymer Perc Test  
**Record ID:** DEH2024-LOWTS-018372

This project is **APPROVED** for the following:

*Commercial / Residential:* Residential  
*Gallons / Day:* 300  
*Number of Bedrooms:* 2

**THIS IS NOT AN ONSITE WASTEWATER TREATMENT SYSTEM PERMIT**

You have until 6/3/2025 to obtain a septic permit. However, a site recheck may be required at any time to determine if site conditions have changed. Refer to the County of San Diego, Department of Environmental Health and Quality, Local Agency Management Program for Onsite Wastewater Treatment Systems for all applicable setbacks and standard conditions of approval.

**ONSITE WASTEWATER SYSTEM REQUIREMENTS**

*Primary Septic Tank (in gallons):* 1000  
*Secondary Septic Tank (in gallons):* 1000

*Supplemental Treatment Type:* Jet J-Series Tank, *Other Supplemental Treatment:*

*Make/Model of Supplemental Treatment:*

*System Details:*

**Soil Disposal System**

|                  | System Type         | Length | Width | Depth | Cap Depth | Spacing | Depth of Medium | # of Pods |
|------------------|---------------------|--------|-------|-------|-----------|---------|-----------------|-----------|
| Primary Dwelling | Drip Dispersal Line | 409    | 1     | 1     |           | 2       |                 |           |

**CONDITIONS TO BE COMPLETED PRIOR TO THE ISSUANCE OF A SEPTIC PERMIT**

*Potable Water Source:* Public Water Supply  
*Water District:* Rincon del Diablo Municipal Water District  
*DEHQ Grading Inspection:*  
*DEHQ Building Plan Review:*

**COMMENTS:** Existing 1-bedroom residence; Proposed 2 Bedroom renovation

Jet (J-500+) tank will precede existing 1000 gallon septic tank, which will become the pump chamber.

System to be equipped with control panel, alarms, and headworks.

Effluent to be dispersed over 409' of new drip dispersal line W/ 2' spacing. (Connect to existing lines if possible & un-damaged).

The dosing schedule must be configured to deliver the smallest dose possible within the parameters of the pressure requirements and water usage over a 24 hour period.

All components of the STS shall be certified in writing by the qualified professional who designed the STS that the installation was completed per the approved design.

-Reserve via the same supplemental system.

-Sign off from Rincon Municipal water district is required prior to septic permit issuance.



# County of San Diego

## Department of Environmental Health and Quality

*Land and Water Quality*

5500 Overland Ave., Suite 210, San Diego, CA 92123 / (858) 565-5173

[www.sdcdehq.org](http://www.sdcdehq.org)

THE SEPTIC CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER PRIOR TO INSTALLATION OF ANY SYSTEM COMPONENTS AND COORDINATE NECESSARY INSPECTION(S) BY THE ENGINEER.

FINAL APPROVAL SHALL REQUIRE:

- WRITTEN CERTIFICATION AND AS BUILT FROM DESIGN ENGINEER
- TELEMETRY
- COPY OF MAINTENANCE AGREEMENT
- OBTAIN AN ANNUAL OPERATING PERMIT

Approved By: Conner Jordan

Date: 6/3/2024



# County of San Diego

**AMY HARBERT**  
DIRECTOR

**DEPARTMENT OF ENVIRONMENTAL HEALTH AND QUALITY**

P.O. BOX 129261, SAN DIEGO, CA 92112-9261  
Phone: (858) 505-6700 or (800) 253-9933 Fax: (858) 505-6786  
[www.sdcdeh.org](http://www.sdcdeh.org)

**HEATHER BUONOMO, REHS**  
DIRECTOR OF ENVIRONMENTAL HEALTH

March 27, 2024

Michael & Julia Silas  
9703 Upas Ln.  
Escondido Ca. 92029

**ONSITE WASTEWATER TREATMENT SYSTEM REVIEW  
PROPOSED 2 BEDROOM SINGEL FAMILY DWELLING  
970 UPAS LANE, ESCONDIDO, CA. 92029  
DEH2024-LOWTS-018372; 270-141-1600**

A layout application submitted for a proposed Onsite Wastewater Treatment System (OWTS) has been reviewed by the County of San Diego Department of Environmental Health and Quality (DEHQ). The purpose of the review is to ensure the OWTS design and location meets current minimum standards required by the DEHQ Local Agency Management Program (LAMP), necessary for the protection of groundwater and public health.

The following corrections/comments must be addressed prior to approval being granted by DEHQ:

1. The percolation test is not representative of the proposed primary drip line area, and the area is too steep to support a supplemental OWTS.

-There are no test holes in the primary drip field, additionally there is no mention of the existing drip field adjacent to the proposed primary. Revise primary drip field location to possibly incorporate existing drip, and/or designate the reserve as the primary.

2. There has been extensive grading done around the proposed house pad and drive way area.

-illustrate all 5:1 setbacks relative to the OWTS.

When re-submitting a revised layout, this disapproval letter should be included with notes on how corrections/comments were accomplished.

DEH2024-LOWTS-018372 for the proposed 1-bedroom ADU remains unapproved at this time. Layout re-submittals shall be sent electronically to [LWQDUTY.DEH@sdcounty.ca.gov](mailto:LWQDUTY.DEH@sdcounty.ca.gov) or in person at the Land and Water Quality Duty Counter located at 5510 Overland Avenue, Monday to Friday between the hours of 8:00 am and 4:00 pm.

If you have any questions, please contact me at [conner.jordan@sdcounty.ca.gov](mailto:conner.jordan@sdcounty.ca.gov).

Sincerely,

Conner Jordan  
Environmental Health Specialist  
Land Use Program

Cc: R. HUANG

# **S. Pat Rymer Civil Engineer**

R.C.E. 38709

9204 Jovic Rd.  
Lakeside, CA 92040

---

Phone (619) 871-5389  
Email banzai780@aol.com

April 18, 2024

County of San Diego  
Department of Environmental Health and Quality  
P.O. Box 129261  
San Diego, CA 92112-9261

Attention: Conner Jordan

Project Number: DEH2023-LOWTS-018372  
Site: 970 Upas Ln.  
Escondido, CA 92029  
APN: 270-141-16

Mr. Jordon;

In response to your letter of March 27, 2024, I have prepared the following:

**Item 1- Test Holes in the drip field:**

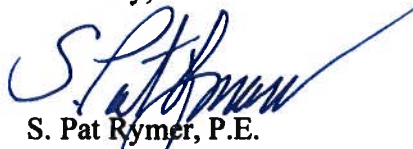
Perk testing on this site was provided as part of the previously approved LOWTS-010729. While testing at that time was provided at several locations on site, for multiple types of systems, the system configuration ultimately proposed, and approved, was an Alternative Treatment System (ATS). Test holes for primary drip field were represented by holes #5 and #6. At that time all of the shallow-hole perk rates on site were very consistent and accepted as sufficiently representative. Because of the reduced size of the currently proposed house I have reduced the size of the drip fields. In addition, because of the removal of the previously proposed gym and car port, I and relocated this primary area back to its originally approved location. It is my assertion that because the perk rate information for this area is what was approved previously it is still valid.

**Item 2- Grading on site:**

There is no new grading in any areas that will impact either the primary or the reserve drip fields... as modified.

Please let me know if you have questions.

Sincerely,



S. Pat Rymer, P.E.  
Consulting Engineer  
(619) 871-5389





## Field Flow

|                  |                    |
|------------------|--------------------|
| Job Description: | UPAS LN- DEL DIOS3 |
| Contact:         |                    |
| Prepared by:     | S. Pat Rymer       |
| Date:            | 9-Jun-65           |

Please fill in the shaded areas and drop down menus:  
This spreadsheet serves as a guide, and is not a complete hydraulic design.

### Worksheet 1- Field Flow

#### Total field

|                                                   |       |                        |
|---------------------------------------------------|-------|------------------------|
| Total Quantity of effluent to be disposed per day | 300   | gallons / day          |
| Hydraulic loading rate                            | 0.367 | gallons / sq.ft. / day |
| Minimum Dispersal Field Area                      | 817   | square ft.             |
| Total Dispersal Field Area                        | 817   | square ft.             |

#### Flow per zone

|                                                   |                   |                   |
|---------------------------------------------------|-------------------|-------------------|
| Number of Zones                                   | 1                 | zone(s)           |
| Dispersal area per zone                           | 817               | square ft.        |
| Choose line spacing between WASTEFLOW lines       | 2                 | ft.               |
| Choose emitter spacing between WASTEFLOW emitters | 2                 | ft.               |
| Total linear ft. per zone (minimum required)      | 409               | ft. per zone      |
| Total number of emitters per zone                 | 204               | emitters per zone |
| Select Wasteflow dripline (16mm)                  | Wasteflow Classic | dripline          |
| Pressure at the beginning of the dripfield        | 25                | psi               |
| Feet of Head at the beginning of the dripfield    | 57.75             | ft.               |
| What is the flow rate per emitter in gph?         | 1.31              | gph               |
| Dose flow per zone                                | 4.46              | gpm               |

**Note: A few States or Counties require additional flow for flushing. Please check your local regulations.**  
Flush velocity in this spreadsheet below is for PC dripline only. Classic dripline usually requires less flow.  
Please refer to Geoflow's spreadsheet called "Design Flow and Flush Curves" at [www.geoflow.com](http://www.geoflow.com) or

|                                                              |      |        |
|--------------------------------------------------------------|------|--------|
| If required, choose flush velocity                           | 0.5  | ft/sec |
| How many lines of WASTEFLOW per zone?                        | 5    | lines  |
| Fill in the <i>actual</i> length of longest dripline lateral | 70   | ft.    |
| Max. <i>allowable</i> length of a single WASTEFLOW line      | 210  | ft.    |
| Flush flow required at the end of each dripline              | 0.37 | gpm    |
| Total Flow required to achieve flushing velocity             | 1.85 | gpm    |
| Total Flow per zone- worst case scenario                     | 6.31 | gpm    |

## Select Filters and zone valves

|                                   |                      |   |
|-----------------------------------|----------------------|---|
| Select Filter Type                | Vortex Screen Filter |   |
| Recommended Filter (item no.)     | AP4E-.75F            |   |
| Select Zone Valve Type            | Electric Solenoid    | - |
| Recommended Zone Valve (item no.) | 0                    | 0 |

## Dosing

|                                                 |      |             |
|-------------------------------------------------|------|-------------|
| Number of doses per day / zone:                 | 8    | doses       |
| Timer ON. Pump run time per dose/zone:          | 8.24 | mins:secs   |
| Timer OFF. Pump off time between doses          | 2:51 | hrs:mins    |
| Per Zone - Pump run time per day/zone:          | 1:07 | hrs:mins    |
| All Zones - Number of doses per day / all zones | 8    | doses / day |

