

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903

Scott Holtry Department Director Sam Elters, P.E. County Manager/County Engineer

Environmental Quality/Waste Disposal Division

ON-SITE WASTEWATER APPLICATION PROCEDURES



MOHAVE COUNTY DEVELOPMENT SERVICES DEPARTMENT ENVIRONMENTAL QUALITY/WASTE DISPOSAL DIVISION

BULLHEAD CITY 1130 HANCOCK ROAD ZIP 86442 (928) 758-0707 KINGMAN 3250 E. KINO AVENUE ZIP 86409 (928) 757-0903 LAKE HAVASU CITY (DROP BOX ONLY)

2001 COLLEGE DRIVE, STE. 95 ZIP 86403 (928) 757-0903

Application can be submitted through the Mohave County Portal https://co-mohave-az.smartgovcommunity.com/Public/Home

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Dear Builder:

This packet is to help you through the process of obtaining a permit to construct a septic system. This packet will give you step-by-step directions and appendices which will help you in this process. Please take a few moments to carefully read all the instructions contained in this packet.

While Development Services can provide resources to help you through this process, we are unable to design the system for you. If you require further help with the design of your system, you must contact a third party to help you in this regard.

Only 4.02 Conventional Systems can be designed and installed owner builder. All systems 4.03 and higher require engineering and a contractor for installation. Commercial Projects also require licenses contractors.

Sincerely,
Scott Holtry, Director
Mohave County Development Services
E-Mail: MCDEQ@mohave.gov

Please Note

The <u>FIRST</u> step is to have an approved site evaluator perform soils and/or percolation testing at the property. A list of the persons (site evaluators) who are approved to conduct this type of testing in Mohave County is included in the packet. This testing must be completed by a third party who is approved in Mohave County and

cannot be performed by the owner of the property.

The application CANNOT be turned into the Development Services office without the completed Site Investigation Report.

Following are the components of the application with instructions:

Procedures to Obtain Construction & Discharge Authorizations

• Read carefully for an overview of how this process will work.

Mohave County Application Worksheet

• Fill in numbers 1-6 and 8-11.

Notice of Intent to Discharge for a Septic Tank & Disposal Field System

- a. Fill in General Information Section.
- b. Fill in Supplemental Information.
 - i. Section 10 (gallons per day) may be found by using Fixture Count Calculation Worksheet.
 - ii. Soil Absorption Rate: Refer to the Site Investigation Report given to you by your site evaluator. It will be listed as the "SAR"
- c. Fill in Other Miscellaneous Required Information.
- d. Fill in Name, Sign and Date the Notice of Intent.

<u>Disposal Field Design/Configuration</u> (for Conventional Systems)

- a. The required absorption area may be found by dividing the projected sewage flow (gallons per day) by the Soil Absorption Rate (SAR found in the Site Investigation Report provided by the site evaluator)
 - i. Example: $450 \text{ gpd} \div 0.6 \text{ gpd/sq}$. ft = 750 sq. ft. absorption area
- b. Fill in A through D.
 - i. B is the width of the distribution pipe (leach pipe) plus 2" of rock
 - ii. C is the total depth of aggregate. The maximum effective depth is 4 ft, depending on any limiting conditions noted by the site evaluator.
 - iii. D is the total of A through C.
- c. Fill in Trench Width.
- d. Fill in Total Length of trench (100 ft. is the maximum a single line may be)
 - i. Find the total length of trench by dividing the total absorption area by the effective depth PLUS width of the trench.

Example:

750 sq. ft. absorption area

4 ft. effective depth (sidewall area x 2) = 8 ft.

3 ft. trench width

750 sq. ft. \div 8 + 3 (11) = 69 ft. length

**4.03-4.22 Alternative require engineering design

<u>Plot Plan</u> (Commercial Projects may also require Site Plan)

- a. Refer to Appendix B for instructions and a sample plot plan.
- b. Refer to Appendix C for minimum setback requirements.

Sewer Availability Information Sheet

• This sheet must be turned in with every application. If the property is in an area where sewer MAY be available, you MUST have the sheet completed by the local sewer provider to verify if the property must connect to an available sewer system. In more rural locations, the applicant may complete the form.

Temporary Agreement Sheet

• This sheet must be turned in with every application, acknowledging the requirements to connect to any future municipal sewer systems when service may become available per R18-9-A309.A5.

List of Materials and Components for constructing the on-site wastewater facility

• Refer to Appendix A for a sample list.

Operation & Maintenance Manual

• Refer to <u>Appendix E</u> for a sample.

Inspection

• Refer to <u>Appendix F</u> instructions for how to complete watertightness test. Refer to <u>Appendix D</u> for an inspection checklist. These are the things the inspectors will be looking for the day of the inspection.

Owner Authorization

• If anyone other than the property owner will be applying for the permit on behalf of the property owner; this form is required. It must be signed by the owner and notarized. This does not allow someone other than the property owner to build the system if applying as an owner builder permit.



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Scott Holtry Sam Elters, P.E.
Department Director County Manager/County Engineer

NOTICE OF INTENT TO DISCHARGE ON-SITE WASTEWATER TREATMENT FACILITY INSTRUCTIONS

Submit Notice of Intent to Discharge (NOI) to obtain authorization to construct and operate a septic tank and disposal field under a Type 4.02-4.22 General Aquifer Protection Permit in accordance with **Arizona Administrative Code (A.A.C.) R18-9-Article 3.**

The following must be submitted to complete an application for an onsite wastewater treatment facility. **Payment is due at the time of submittal** and is not refundable, permits are not transferable.

Requirements for submitting a complete on-site wastewater application must include:

- Mohave County Permit Application Worksheet
- Notice of Intent to Discharge
- Fixture Count Calculation Chart Worksheet
- Design Configuration Sheet
- Draft Operation and Maintenance Manual (Alternative Systems Only)
- On-site Wastewater Facility Plot Plan **Use Engineer's Scale MAX. 1 inch = 60 feet**
- Site Plan (Commercial Only)
- Sewer Availability Sheet
- Temporary Agreement
- List of Materials and Components for constructing the on-site wastewater facility
- Property Floodplain Information Sheet (PFI)
- Site Investigation Report

GENERAL APPLICATION PROCESS

The application will be reviewed to ensure it is administratively complete. Then reviewed for technical compliance. Once all requirements have been met, a <u>Construction Authorization (CA)</u> will be issued to the applicant. CA must be signed and returned, then construction may begin of the on-site wastewater facility.

Alternative & Commercial Systems must be installed by a contractor licensed for this type of work

Construction <u>MUST</u> be completed, and a <u>Request for Discharge Authorization (RDA)</u> must be submitted within <u>2 years</u> to request an inspection of the facility. The following must be submitted with the RDA:

- 1. RDA form with Certification that the septic tank passed watertightness test after installation.
- 2. Final as-built plot plan of the project if it differs from the proposed plan.
- 3. Certificate of Completion or (ECC) (Alternative Systems Only)

When the above documents are received, an inspector will inspect the facility. If the facility was constructed according to the approved plan in compliance with all applicable State laws and local regulations, a <u>Discharge</u> Authorization (DA) will be issued.

FEES

Fees for Type 4 General Permits (4.02 through 4.22) are listed on website: Mohave County Septic Permitting

If an applicant requests priority review, the Department shall approve or deny the request. The Department will only consider requests where environmental nuisances of occupied properties exist. The request must be accompanied by a failed NAWT inspection report. When determining whether to approve a priority review request The Department shall consider the complexity of the project and the Department's current workload.

LICENSING TIME FRAMES

Licensing Time Frames (LTFs) are specified by the Arizona Department of Environmental Quality in A.A.C. R18-1-525. The following LTFs limit the number of business days ADEQ can review your project without a penalty:

| License Type | Administrative Completeness Review | Substantive Review | Overall Time Frame |
|---|---------------------------------------|-----------------------|--------------------|
| Single 4.02, 4.03, 4.13, and 4.14 General Permits | 42 | 31 | 73 |
| Combined Two or Three Type 4 General Permits | 42 | 53 | 95 |
| Combined Four or More Type 4 General Permits | 42 | 94 | 136 |

• Each request for an alternative design, installation, or operational feature under A.A.C. R18-9-A312(G) to a type 4 general permit adds eight business days to the substantive review timeframe.

Notes:

- 1. Construction of the facility CANNOT take place until the Construction Authorization is issued.
- 2. Discharge CANNOT take place until the Discharge Authorization is issued.
- 3. If the construction differs from the proposed plan, and a second inspection and/or second review of the system is necessary, additional fees may apply.
- 4. A <u>Sewer Availability Information Sheet</u> is required from the sewer provider for the property location. This **MUST** be done **PRIOR** to having a site investigation and must be attached to the application submittal.

Mailing Address: DEVELOPMENT SERVICES P.O. Box 7000, Kingman, AZ 86402-7000

Mohave County Onsite Wastewater Treatment Facility Permit Application Worksheet

| Date | |
|-------------|--|
| Project # _ | |
| Permit # _ | |



| Pe | ermit Application Worksheet | Permit # | | DITAT DEUS 32 |
|-----------|--|-------------------|-----------------|---------------|
| | PLOT PLANS MUST BE NO LARGER NOTE: Shaded areas are for cou | | 1" | |
| 1. 2. | Type of Improvement: Applicant's name: Mailing address: | | | |
| 2.4 | City: State: Zip: | | | |
| 2A. | Fax Number: Email: | | | |
| 3. | Property Owners Name: | | | |
| | Mailing Address: City: State: Zip: | | | |
| | Fax Number: Email: | | | |
| 4. | SITE LOCATION ADDRESS: | | | |
| 5. | House No Street Dir Street Nam Legal Description: | ie: | | |
| | | rent Parcel: Yes | | |
| | Subdivision Name: Cor Unit/Tract/Block/Lot: | rner Lot: Yes | | |
| | Township/Range/Section: | | | |
| 6. | Plot Plan Drawing (see instructions on plot plan form) | | | |
| 7. 7A. | Is there an existing structure? | | | |
| Env | ironmental Quality Division | | | |
| 8. | Is this an existing system? | _ | Number of bedr | ooms: |
| 8A. 9. | Is this a Conventional Septic? YES NO, Alternative System? YES Septic Tank Size: Manufacturer: | s 🗆 no | Number of fixtu | re units: |
| 10. | Septic Tank Size: Manufacturer: License #: | | | |
| | Or Owner / Builder: YES NO | | | |
| Plar | nning & Zoning Division | | | |
| 12. | Zoning: | | | |
| | | | | |
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| | | | BAL DUE \$_ | |

| GEN | GENERALINFORMATION | | | |
|-----|---|--|----------------------------|---|
| 1 | 1 Project Name | | | |
| | Project Name | | | |
| 2 | Ap | plicant (person responsible for | · overall compliance) | |
| | (Ch | neck One) Owner | Operator | |
| 3 | Sit | e Information | | |
| | Loc | cation of proposed tank site | | |
| | Lat | itudeº | '"N Lon | ngitude ' " W |
| | Leg | gal Description of Property | | <u>.</u> |
| | Wa | ter Supply (check one): | | |
| | | Public Water | | |
| | | Private Well *See Note | • • | |
| | | Haul Water *See Note | * * | |
| | | | | the 50-foot setback required by the Aquifer Protection Permit, a letter ator allowing a reduction of the setback. |
| | | | • | ncluded in the application packet. |
| 4 | | ting Environmental Permits | | |
| - | List | any other federal or state enviro | | or or needed by the facility, including any individual permit, |
| | | undwater Quality Protection Per itional pages if necessary). | mit, or Notice of Dispos | al that may have previously authorized the discharge (attach |
| 5 | | view Fees | | |
| | T | Standard Review Fee (See In | structions) | |
| | Ī | Request for priority review for | or this NOI and include f | ailed NAWT Inspection report. |
| SUP | PLE | MENTAL INFORMATION | | |
| 6 | Inf | formation and Submission Req | uirements (Check All (| Completed Items) |
| | | Site Investigation Report per A | A.A.C. R18-9-A309(B)(1) | |
| 7 | Day | Site Plan per A.A.C. R18-9-A3 | | |
| / | | Sign Flow and Strength of Was | | rollong non-day, Soil Absorption Data (SAD) |
| | | = = | | gallons per day. Soil Absorption Rate (SAR)gallons per day. exceeds the levels for typical sewage) is attached? |
| | D) | Residential | astewater (if the strength | execute the levels for typical sewage) is attached: |
| | | | | poms and plumbing fixtures and corresponding unit flows used to |
| | | calculate the design flow of the | Number | |
| | | Wastewater Source Bedrooms | Number | Unit Flows used to calculate the design flow of the facility |
| | | Plumbing Fixtures | | |
| | | Commercial (or dwelling ov | er 8 bedrooms or 56 fixt | ure units) |
| | For a dwelling other than for a single family, a list of each wastewater source and corresponding unit flows used to calculate the design flow of the facility. (See Table 1) | | | |
| | | Wastewater Source | Number | Unit Flows used to calculate the design flow of the facility |
| | | Trasterrater Source | Tumbei | ome Flows used to calculate the design now of the facility |
| | | | | |
| 8 | 8 List of Materials and Components | | | |
| | Α | list of material and components | for constructing the onsi | te wastewater treatment facility is attached? Yes |

*Public Water note: If no public water is available, and system is located less than 50 ft. from any property line, applicant must obtain an agreement from the owners of any affected undeveloped adjacent property to limit the location of any new well on their property to at

least 100 feet from the proposed treatment works and primary and reserve disposal works. The agreement must be recorded appropriately, and the documentation must be approved by the Department.

| 9 | Sele | ected General Permits (Check All General Permits that Are being Applied for) |
|---|----------|---|
| | | Alternative Request(s) are attached (A.A.C. R18-9-A312(G)) |
| | | Please indicate how many A312G requests are attached |
| | Ш | 4.02 Septic Tank with Disposal by Trench, Bed, Chamber Technology, or EZ Flow. Less than 3,000 Gallons per Day (GPD) Daily Flow |
| | A) | This on-site wastewater treatment facility consists of a conventional septic tank system and disposal field sized for a design flow of gallons per day. The septic tank conveys wastewater to a disposal field consisting of (check one): 1 Trench |
| | B) C) | 3. |
| | | sewage and |
| | | 4.03 Composting Toilet, Less than 3,000 GPD Daily Flow (Please select from Product List) |
| | A) | Composting toilet system manufacturer name |
| | B) C) | Composting toilet system manufacturer address |
| | D) | The product model number |
| | | Calculations for the composting rate, capacity, and waste accumulation volume are attached? Yes Documentation of listing by a national listing organization indicating that the composting toilet meets the stated manufacturer's specifications for loading, treatment performance, and operation has been attached (unless the composting toilet is listed under R18-9-A309(E) or is a component of a reference design approved by the Department)? Yes |
| | G) | Describe the vector control method. |
| | H) | Describe the planned method and frequency for disposing of the composted human excrement residue. |
| | I) | Describe the planned method for disposing of the drainage from the composting unit. |
| | J) | The number of bedrooms in the dwelling or persons served on a daily basis, as applicable. |
| | K) | What is the corresponding design flow of the disposal works for the wastewater? |
| | | The results from soil evaluation or percolation testing that adequately characterize the soils into which the wastewater will be dispersed and the locations of soil evaluation and percolation testing on the site plan have been provided? Yes The design for the disposal including the location of the interceptor, the location and configuration of the trench or bed used for wastewater dispersal, the location of connecting wastewater pipelines, and the location of the reserve area has been provided? Yes |
| | | 4.04 Pressure Distribution System, Less than 3,000 GPD Daily Flow |
| ' | B) | A copy of operation, maintenance, and warranty materials for the principal components has been attached? Yes A copy of dosing specifications, including pump curves, dispersing component curves, and float switch settings is attached? Yes |
| | | 4.05 Gravelless Trench, Less than 3,000 GPD Daily Flow |
| • | A) | The soil absorption area that would be required if a conventional disposal trench filled with aggregate was used at the site? Yes |

| B) | The configuration and size of the proposed gravelless disposal field is attached? \(\sum \text{Yes}\) |
|---|--|
| C) | The manufacturer's installation instructions and warranty of performance for absorbing wastewater into the native soil is |
| | attached? Yes |
| | 4.06 Natural Seal Evaporative Bed, Less than 3,000 GPD daily Flow |
| (A) | Capillary rise potential test results for the media used to fill the evapotranspiration bed, unless sand meeting a D50 of 0.1 |
| | millimeter (50 percent by weight of grains equal to or smaller than 0.1 millimeter) is used? Yes |
| В | Water mass balance calculations were used to size the evapotranspiration bed? Yes |
| | 4.07 Lined Evapotranspiration Bed, Less than 3,000 GPD Daily Flow |
| A) | Capillary rise potential test results for the media used to fill the evapotranspiration bed, unless sand meeting a D50 of 0.1 |
| 11) | millimeter (50 percent by weight of grains equal to or smaller than 0.1 millimeter) is used? Yes |
| B) | Water mass balance calculations were used to size the evapotranspiration bed? Yes |
| | 4.08 Wisconsin Mound, Less than 3,000 GPD Daily Flow |
| A) | |
| B) | Two scaled or dimensioned cross sections of the mound (one of the shortest basal area footprint dimension and one of the |
| D) | lengthwise dimension) are attached? \square Yes |
| C) | Design calculations following the "Wisconsin Mound Soil Absorption System: Siting, Design, and Construction Manual," |
| Ο) | published by the University of Wisconsin - Madison, January 1990 Edition have been provided? Yes |
| | 4.09 Engineered Pad, Less than 3,000 GPD Daily Flow |
| | |
| <u>A)</u> | Design materials and construction specifications for the engineered pad system are attached? Yes |
| | 4.10 Intermittent Sand Filter, Less than 3,000 GPD Daily Flow |
| <u>A)</u> | Specifications for the media proposed for use as the sand filter are attached? Yes |
| | 4.11 Peat Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) |
| A) | Specifications for the peat media proposed for use in the filter or provided in the peat module, including the porosity, surface |
| | area, and moisture content are attached? Yes |
| B) | A statement indicating whether the peat is air dried, and whether the peat is from sphagnum moss or bog cotton is attached? |
| | Yes _ |
| C) | A description of the degree of decomposition is attached? Yes |
| D) | Specifications for installing the peat media are attached? Yes |
| | |
| E) | If a peat module is used, the name and address of the manufacturer, the model number, and a copy of the manufacturer's |
| E) | warranty are attached? Yes |
| | warranty are attached? Yes 4.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) |
| A) | warranty are attached? Yes 4.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name |
| A) | warranty are attached? Yes 4.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) |
| A) B) | warranty are attached? Yes 4.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name |
| A) B) C) | warranty are attached? Yes 4.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number |
| A) B) C) D) | warranty are attached? |
| A) B) C) D) | warranty are attached? Yes 4.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen |
| A) B) C) D) E) | ### A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes |
| A) B) C) D) E) | ### A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes |
| A) B) C) D) E) | ### A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes |
| A) B) C) D) E) F) G) | ### A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes |
| A) B) C) D) E) F) G) | ### A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's |
| A) B) C) D) E) F) G) | 4.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24- |
| A) B) C) D) E) F) G) | ### At 12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes |
| A) B) C) D) E) F) G) | A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated |
| A) B) C) D) E) F) G) | ### A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes |
| A) B) C) D) E) F) G) | ### A:12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes 4.13 Denitrifying System Using Separated Wastewater Streams, Less than 3,000 GPD Daily Flow |
| A) B) C) D) E) F) G) | 4.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes 4.13 Denitrifying System Using Separated Wastewater Streams, Less than 3,000 GPD Daily Flow 4.14 Sewage Vault, Less than 3,000 GPD Daily Flow |
| A) B) C) D) E) F) G) H) I) | ### Acopy of the manufacturer's filter warranty is attached? Yes |
| A) B) C) D) E) F) G) H) I) A) B) C) | ### A:12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes 4.13 Denitrifying System Using Separated Wastewater Streams, Less than 3,000 GPD Daily Flow 4.14 Sewage Vault, Less than 3,000 GPD Daily Flow (Please select from Product List) Aerobic system manufacturer name Aerobic system manufacturer address Aerobic system model number |
| A) B) C) D) E) F) G) H) I) A) B) C) | ## A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes 4.13 Denitrifying System Using Separated Wastewater Streams, Less than 3,000 GPD Daily Flow 4.14 Sewage Vault, Less than 3,000 GPD Daily Flow 4.15 Aerobic System, Less than 3,000 GPD Daily Flow (Please select from Product List) Aerobic system manufacturer name Aerobic system manufacturer address |
| A) B) C) D) E) F) G) H) I) A) B) C) | ### A:12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes 4.13 Denitrifying System Using Separated Wastewater Streams, Less than 3,000 GPD Daily Flow 4.14 Sewage Vault, Less than 3,000 GPD Daily Flow (Please select from Product List) Aerobic system manufacturer name Aerobic system manufacturer address Aerobic system model number |
| A) B) C) D) E) F) G) H) I) A) B) C) D) | ### A.12 Textile Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) Filter manufacturer name Filter manufacturer address Filter model number A copy of the manufacturer's filter warranty is attached? Yes If the system is for nitrogen reduction to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes If a pump or aerator is required for proper operation, the pump or aerator model number and a copy of the manufacturer's warranty is attached? Yes The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes 4.13 Denitrifying System Using Separated Wastewater Streams, Less than 3,000 GPD Daily Flow 4.14 Sewage Vault, Less than 3,000 GPD Daily Flow 4.15 Aerobic System, Less than 3,000 GPD Daily Flow (Please select from Product List) Aerobic system manufacturer name Aerobic system manufacturer address Aerobic system model number Evidence of performance specified in AAC R18-9-E315(B) has been attached? Yes |
| A) B) C) D) E) F) G) H) I) A) B) C) D) E) | ### Acopy of the manufacturer's filter warranty is attached? Yes |
| A) B) C) D) E) F) G) H) I) A) B) C) D) E) | ### Acopy of the manufacturer's filter warranty is attached? Yes ### Yes Yes ### The manufacturer address ### The manufacturer address ### The manufacturer address ### The manufacturer's filter warranty is attached? Yes ### The manufacturer's filter warranty is attached? Yes ### The manufacturer's operation to 15 milligrams per liter, five-month arithmetic mean, specifications on the nitrogen reduction performance of the filter system, and corroborating third-party test data is attached? Yes ### The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes ### The manufacturer's operation and maintenance recommendations to achieve a 20-year life are attached? Yes ### The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24-hour period per AAC R18-9-E312 (B)(4)(e)? Yes ### The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes ### The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated wastewater per AAC R18-9-E312 (B)(4)(g)? Yes ### The design provides fail-safe wastewater Streams, Less than 3,000 GPD Daily Flow ### 4.13 Denitrifying System Using Separated Wastewater Streams, Less than 3,000 GPD Daily Flow ### 4.14 Sewage Vault, Less than 3,000 GPD Daily Flow (Please select from Product List) ### Acrobic System manufacturer name ### Acrobic System manufacturer address ### Acro |

| | G) | A list of pretreatment components needed to meet performance requirements has been attached? \(\subseteq \text{Yes} \) |
|----|---------------|---|
| | H) | The design report has demonstrated there is adequate storage for untreated wastewater above the high operating level for a 24 |
| | | hour period per AAC R18-9-E312 (B)(4)(e)? Yes |
| | I) | The design provides fail-safe wastewater controls or operational processes to prevent the release of inadequately treated |
| | _ | wastewater per AAC R18-9-E312 (B)(4)(g)? Yes |
| | | 4.16 Nitrate-Reactive Media Filter, Less than 3,000 GPD Daily Flow (Please select from Product List) |
| | | Filter manufacturer name |
| | | Filter manufacturer address |
| | | Filter model number |
| | D) | The manufacturer's requirements for pretreated wastewater supplied to the nitrate-reactive media filter have been attached? |
| | | Yes |
| | E) | The manufacturer's specifications for design, installation, and operation for the nitrate-reactive media filter system and |
| | | appurtenances have been attached? Yes |
| | F) | The manufacturer's warranty for the nitrate-reactive media filter system and appurtenances has been attached? Yes |
| | G) | <u> </u> |
| | | media filter system and appurtenances have been attached? Yes |
| | H) | The manufacturer name and model number for all appurtenances that significantly contribute to achieving the performance |
| | | have been attached? Yes |
| | Ш | 4.17 Cap System, Less than 3,000 GPD Daily Flow |
| | <u>A)</u> | The specifications for the proposed cap fill material have been attached? Yes |
| | Ш | 4.18 Constructed Wetlands, Less than 3,000 GPD Design Flow |
| | | 4.19 Sand Lined Trench, Less than 3,000 GPD Design Flow |
| | <u>A)</u> | Specifications for the proposed media in the trench are attached? Yes |
| | | 4.20 Disinfection Devices, Less than 3,000 GPD Design Flow |
| | | 4.21 Surface Disposal, Less than 3,000 GPD Design Flow |
| | | 4.22 Subsurface Drip Irrigation, Less than 3,000 GPD Design Flow |
| | A) | <u></u> 1 |
| | | such as the type of pretreatment system and the manufacturer's warranty is attached? \(\subseteq \text{Yes} \) |
| | B) | Initial filter and drip irrigation flushing settings are attached? Yes |
| | C) | Calculations of the site evaporation rate are attached? \(\sum \text{Yes} \) |
| | D) | If supplemental irrigation water is introduced to the subsurface drip irrigation disposal works, an identification of the cross- |
| | | connection controls, backflow controls, and supplemental water sources are attached? Yes |
| 10 | A | Additional On-site Requirements (for Type 4.03 through 4.22 General Permits) |
| | | For a facility that includes treatment or disposal works permitted under a Type 4.03 to 4.22 General Aquifer Protection |
| | | Permits (A.A.C. R18-9-E303 through R18-9-E323): |
| | | 1) Construction quality drawings that show the items listed in A.A.C. R18-9-A309(B)(6)(a) is attached? Yes |
| | | 2) Per A.A.C R18-9-A309(B)(6)(b) and R18-9-A313(B), a draft operation and maintenance manual for the on-site |
| | | wastewater treatment facility consisting of the tasks and schedules for operating and maintaining performance over a 20- |
| | | year operational life is attached? Yes |
| | | |
| | | |
| | | |
| 11 | Alt | ernative treatment works or disposal works |
| | $\overline{}$ | Owner has provided signed statement form acknowledging use of an alternative treatment works or disposal works in lieu |
| | Ш | of a conventional treatment works or disposal works. |
| 12 | (| Certification (to be completed by Applicant on Permit Application Worksheet) |
| 12 | | |
| | Ι, | , certify that this Notice of Intent to Discharge and all attachments were |
| | | pared under my direction or authorization and all information is, to the best of my knowledge, true, accurate and complete. I |
| | | o certify that the on-site wastewater treatment facility described in this form is or will be designed, constructed, and operated |
| | | accordance with the terms and conditions the General Aquifer Protection Permit(s) (A.A.C. R18-9-E302 through R18-9-E323) |
| | | d applicable requirements of Arizona Revised Statutes Title 49, Chapter 2, and Arizona Administrative Code Title 18, Chapter |
| | | egarding Aquifer Protection Permits. I am aware that there are significant penalties for submitting false information including |
| | per | mit revocation as well as the possibility of fine and imprisonment for knowing violations. |
| | | |
| | C:- | Poto |
| | 216 | nature Date |

FOR RESIDENTIAL USE

FIXTURE COUNT CALCULATION CHART

Use the fixture count chart below to determine the total number of fixture units in the home. **Check the corresponding box on the system design flow chart based on your fixture count or number of bedrooms** *whichever is greater.* The box that is checked is the row where you'll find your minimum tank size and system design flow. Enter the information at the bottom of the page, and submit this form with your application.

| Residential Fixture Type | Existing # Fixtures | Proposed # Fixtures | Multiply by | Fixture Units | Equals | Total # PROPOSED Fixtures |
|--|------------------------|------------------------|-------------|---------------|--------|---------------------------------|
| Bathtub | | | Х | 2 | = | |
| Bidet | | | X | 2 | = | |
| Dishwasher, outside kitchen | | | Х | 2 | = | |
| Clothes washer | | | Х | 2 | = | |
| Utility tub or sink separate from clothes washer | | | х | 2 | = | |
| Kitchen Sink (may include dishwasher) | | | Х | 2 | = | |
| Shower, single stall | | | X | 2 | = | |
| Sink, bar | | | Х | 1 | = | |
| Sink, service | | | Х | 3 | = | |
| Lavatory, single or double (bathroom sink) | | | Х | 1 | = | |
| *Toilet, 1.6 gallons per flush (gpf) | | | X | 3 | = | |
| *Toilet, 1.6 - 3.2 gpf | | | X | 4 | = | |
| *Toilet >3.2 gpf | | | Х | 6 | = | |
| FIXTURE COUNT TOTAL | | | | | = | |
| Physical # Bedrooms | | | | | = | |

^{*}Toilets currently available in Arizona are 1.6 gallons per flush. Older fixtures may not use the same amount of gallons per flush.

SYSTEM DESIGN FLOW CHART

| ✓ | No. of Bedrooms | Fixture Count | Minimum Tank Size (gallons) | System Design Flow (gpd) |
|---|-----------------|---------------------------|-----------------------------|--------------------------|
| | 1 | 7 or less | 1000 | 150 |
| | | More than 7 less than 14 | 1000 | 300 |
| | 2 | 14 or less | 1000 | 300 |
| | 2 | More than 14 less than 21 | 1000 | 450 |
| | 3 | 21 or less | 1000 | 450 |
| | 3 | More than 21 less than 28 | 1250 | 600 |
| | 4 | 28 or less | 1250 | 600 |
| | 4 | More than 28 less than 35 | 1500 | 750 |
| | F | 35 or less | 1500 | 750 |
| | 5 | More than 35 less than 42 | 2000 | 900 |
| | · · | 42 or less | 2000 | 900 |
| | 6 | More than 42 less than 49 | 2500 | 1050 |
| | 7 | 49 or less | 2500 | 1050 |
| | / | More than 49 less than 56 | 3000 | 1200 |
| | 8* | 56 or less | 3000 | 1200 |
| | 8" | More than 56* | 3000 | 1350 |

*NOTE: For a single residence with more than 8 bedrooms or more than 56 fixture units, use R18-9-A314 (D) (2) as the basis for determining minimum septic tank size and system design flow.

For Commercial Use

(or dwelling over 8 bedrooms or 56 fixture units)

| Wastewater Source | Applicable Unit | Sewage Design Flow per Applicable Unit. |
|---|--|---|
| Airport | Passenger (average daily number) Employee | 4 15 |
| Auto Wash | Facility | Per manufacturer, if consistent with this |
| Bar/Lounge | Seat | 30 |
| Barber Shop | Chair | 35 |
| Beauty Parlor | Chair | 100 |
| Bowling Alley (snack bar only) | Lane | 75 |
| Camp Day camp, no cooking facilities Campground, overnight, flush toilets Campground, overnight, flush toilets and Campground, luxury Camp, youth, summer, or seasonal | Camning unit Camping unit Camping unit Person Person | 30 75 150 100-150 50 |
| Church Without kitchen With kitchen | Person (maximum attendance) Person (maximum attendance) | 5 7 |
| Country Club | Resident Member Nonresident Member | 100 10 |
| Dance Hall | Patron | 5 |
| Dental Office | Chair | 500 |
| Dog Kennel | Animal, maximum occupancy | 15 |
| Dwelling For determining design flow for sewage treatment facilities under R18-9-B202(A)(9)(a) and sewage collection systems under R18-9-E301(D) and R18-9-B301(K), excluding peaking factor. | Person | 80 |
| Dwelling For on-site wastewater treatment facilities per R18-9- E302 through R18-9-E323: Apartment Building 1 bedroom 2 bedroom 3 bedroom 4 bedroom | Apartment Apartment Apartment Apartment | 200 300 400 500 |
| Seasonal or Summer Dwelling (with recorded seasonal occupancy restriction) | Resident | 100 |
| Single Family Dwellings | see R18-9-A314(D)(1) | see R18-9-A314(D)(1) |
| Other than Single Family Dwelling, the greater flow value based on: Bedroom count 1-2 bedrooms | Bedroom | 300 150 |
| Each bedroom over 2 | Bedroom Fixture unit | 25 |
| Fixture count Fire Station | | 45 |
| | Employee | 43 |
| Hospital All flows Kitchen waste only Laundry waste only | Bed Bed Bed | 250 25 40 |
| Hotel/motel Without kitchen With kitchen | Bed (2 person) Bed (2 person) | 50 60 |

Department of Environmental Quality – Water Pollution Control

| Industrial facility | | |
|--|-----------------------------|----------------------|
| Without showers | <u>Emplovee</u> | 25 35 |
| With showers | Employee | 35 |
| Cafeteria, add | Employee | 5 |
| Institutions | | |
| Resident | Person | 75 125 |
| Nursing home | Person | |
| Rest home | Person | 125 |
| Laundry | | 50 |
| Self service | Wash cycle | Per manufacturer, if |
| Commercial | Washing machine | consistent with this |
| | | Chapter |
| Office Building | Employee | 20 |
| Park (temporary use) | | |
| Picnic, with showers, flush toilets | Parking space | 40 |
| Picnic, with flush toilets only | Parking space | 40 20 |
| Recreational vehicle, no water or sewer | Vehicle space | 75 |
| Recreational vehicle, with water and sewer | Vehicle space | 100 |
| connections | | |
| Mobile home/Trailer | Space | 250 |
| Restaurant/Cafeteria | Employee | 20 |
| With toilet, add | Customer | 7 |
| Kitchen waste, add | Meal | 6 |
| Garbage disposal, add | Meal | 1 |
| Cocktail lounge, add | Customer | 2 |
| Kitchen waste disposal service, add | Meal | 2 |
| Restroom, public | Toilet | 200 |
| School | | |
| Staff and office | Person | 20 |
| Elementary, add | Student | 15 |
| Middle and High, add | Student | 20 |
| with gym & showers, add | Student | 5 |
| with cafeteria, add | Student | 3 |
| Boarding, total flow | | |
| <u> </u> | Person | 100 |
| Service Station with toilets | First bay | 1000 |
| | Each additional bay | 500 |
| Shopping Center, no food or laundry | Square foot of retail space | 0.1 |
| Store | Employee | 20 |
| Public restroom, add | Square foot of retail space | 0.1 |
| Swimming Pool, Public | Person | 10 |
| Theater | | |
| Indoor | Seat | 5 10 |
| Drive-in | Car space | 10 |

Note: Unit flow rates published in standard texts, literature sources, or relevant area or regional studies are considered by the Department, if appropriate to the project.

DISPOSAL FIELD DESIGN/CONFIGURATION

Trench, Bed or Chamber Cross-section

| | Trenen, Bed of Chamber Cross | section |
|---------------------|---|---|
| | SEWAGE FLOW: g.p.d. / SOIL ABSORBTION AREA: | ON RATE (SAR): |
| Please indica A. | Donfiguration ate vertical depths using inches. Backfill to final grade | Original Grade A-1 Final grade A B C |
| | Trench width Total length of trench (ft.) | ← Width → |
| Gravity B | eds | |
| Å. | Backfill | Finish grade |
| B. | Distribution line with 2" of aggregate material | |
| C. | Aggregate depth | ↑ (\) |
| D. | Total Bed depth(Gravity Bed shall be less than 5' total depth) | |

Trench width 10' or 12' (circle one)

Total length of Bed _____

Distance between pipes 4' or 6' (circle one)

10' or 12'

Infiltrator Chamber Worksheet

| FIXTUR | RE COUNT CA | ALCUL | ATION CHART | | |
|---------------------------------------|-------------|-------|---------------|--------|------------------------|
| FIXTURE TYPE | UNIT | | # OF FIXTURES | | TOTAL FIXTURE UNITS |
| Bath Tub | 2 | Х | | = | |
| Bidet | 2 | Х | | = | |
| Clothes Washer | 2 | Х | | = | |
| Dishwasher (separate from kitchen) | 2 | Х | | = | |
| Lavatory (bathroom sink), single | 1 | Х | | = | |
| Lavatory, double in master bedroom | 1 | Х | | = | |
| Shower, single stall | 2 | Х | | = | |
| Sink, bar | 1 | Х | | = | |
| Sink, kitchen (including dishwasher) | 2 | Х | | = | |
| Sink, service | 3 | Х | | = | |
| Utility Tub or Sink | 2 | Х | | = | |
| Water Closet (toilet), 1.6 GPF | 3 | Х | | = | |
| Water Closet (toilet), >1.6 - 3.2 GPF | 4 | Х | | = | |
| Water Closet (toilet), >3.2 GPF | 6 | Х | | = | |
| | <u>.</u> | • | TOTAL FIXTURE | UNITS: | |

Items in BOLD are the most commonly used fixtures

| "Bedroom" means, for the purposes of determining design flow for an |
|---|
| on-site wastewater treatment facility for a dwelling, any room that has |

- a) Floor space of at least 70 square feet in area, excluding
- b) Ceiling height of at least 7 feet;
- Electrical service and ventilation;
- d) A closet or an area where a closet could be constructed;
- At least one window capable of being opened and used for emergency egress; and
- f) A method of entry and exit into the room which allows it to be considered distinct from other rooms in the dwelling to afford a level of privacy customarily expected for such a room.

| Bedroom/Equivalent Worksheet | | | |
|------------------------------|-----------------|--|--|
| Room Type | Number of Rooms | | |
| Bedroom | | | |
| Den | | | |
| Office | | | |
| Other: | | | |
| Other: | | | |
| Other: | | | |
| Total: | | | |

| TYPE OF CHAMBER (ÔP ÒÔS ONE): | QUICK4 PLUS STANDARD LP | QUICK4 HIGH CAPACITY | ARC 36LP ARC 36 HC |
|---|--|----------------------|---|
| TANK SIZE (from Septic System Size | ng Chart) | = | Proposed Number of |
| PERCOLATION RATE (from the Soils Report or Disposal Art SOIL ABSORPTION RATE (from the Soils Report or Disposal Art | ea Calculation Table) | = | Trenches Proposed Number of Chambers per Trench Proposed Width of |
| TOTAL SQUARE FOOTAGE REQUI (divide DESIGN FLOW by SAR or us | RED | = | each Trench Proposed Length of each Trench |
| QUICK4 PLUS STANDARD L QUICK4 HIGH CAPACITY ARC 36LP ARC 36 HC | p divisor is 24.62 per unit divisor is 28.40 per unit divisor is 29.75 per unit divisor is 34.43 per unit | | Proposed Overall Depth of each Trench Separation Between |
| DIVISOR USED (provided and recon | nmended by manufacturer) | = | Trench Edges |
| TOTAL NUMBER OF CHAMBERS (by the DIVISOR) | divide the TOTAL SQUARE FOC | PTAGE = | _ |
| TOTAL LINEAR LENGTH OF TRENC CHAMBERS by CHAMBER LENGTH | | | _ |

- The maximum length for any disposal field is 100'. If the total linear length of trench is greater than 100', use a distribution box to divide the total length into multiple trenches of equal length to distribute the effluent more effectively throughout the disposal field.
- The separation between the chamber trench walls is a minimum of 5'.
- For contoured installations, chambers can swivel up to 10 degrees, left or right.

EZflow EPS Aggregate System Worksheet

| FIXTURE COUNT CALCULATION CHART | | | | | |
|---------------------------------------|------|---|---------------|--------|------------------------|
| FIXTURE TYPE | UNIT | | # OF FIXTURES | | TOTAL FIXTURE UNITS |
| Bath Tub | 2 | Х | | = | |
| Bidet | 2 | Х | | = | |
| Clothes Washer | 2 | Х | | = | |
| Dishwasher (separate from kitchen) | 2 | Х | | = | |
| Lavatory (bathroom sink), single | 1 | Х | | = | |
| Lavatory, double in master bedroom | 1 | Х | | = | |
| Shower, single stall | 2 | Х | | = | |
| Sink, bar | 1 | Х | | = | |
| Sink, kitchen (including dishwasher) | 2 | Х | | = | |
| Sink, service | 3 | Х | | = | |
| Utility Tub or Sink | 2 | Х | | = | |
| Water Closet (toilet), 1.6 GPF | 3 | Х | | = | |
| Water Closet (toilet), >1.6 – 3.2 GPF | 4 | Х | | = | |
| Water Closet (toilet), >3.2 GPF | 6 | Х | | = | |
| | | • | TOTAL FIXTURE | UNITS: | |

Items in BOLD are the most commonly used fixtures

"Bedroom" means, for the purposes of determining design flow for an on-site wastewater treatment facility for a dwelling, any room that has:

- a) Floor space of at least 70 square feet in area, excluding
- b) Ceiling height of at least 7 feet;
- c) Electrical service and ventilation;
- d) A closet or an area where a closet could be constructed;
- e) At least one window capable of being opened and used for emergency egress; and
- f) A method of entry and exit into the room which allows it to be considered distinct from other rooms in the dwelling to afford a level of privacy customarily expected for such a room.

| Bedroom/Equivalent Worksheet | | | |
|------------------------------|-----------------|--|--|
| Room Type | Number of Rooms | | |
| Bedroom | | | |
| Den | | | |
| Office | | | |
| Other: | | | |
| Other: | | | |
| Other: | | | |
| Total: | | | |

| TRENCHES HAVE A MAXIMUM OVERALL DEPTH OF FIVE (5) FEET ABOVE DEPT | H OF TEST HOLE | |
|--|----------------|---------------------------------------|
| TANK SIZE (from Septic System Sizing Chart) | = | Proposed Number of Trenches |
| DESIGN FLOW (from Septic System Sizing Chart) | = | Proposed Length of |
| PERCOLATION RATE (from the Soils Report or Disposal Area Calculation Table) | = | each Trench |
| SOIL ABSORPTION RATE (from the Soils Report or Disposal Area Calculation Table) | = | Proposed Width of each Trench |
| TOTAL SQUARE FOOTAGE REQUIRED (divide DESIGN FLOW by SAR or use Design Flow Calculation Table) | = | Proposed Overall Depth of each Trench |
| EZFLOW CONFIGURATION (refer to EZFLOW Design Table; select from drop down list) | = | Separation Between Trench Edges |
| DIVISOR USED (refer to EZFLOW Design Table) | = | |
| TOTAL LINEAR LENGTH OF TRENCH REQUIRED (divide TOTAL SQUARE FOOTAGE by DIVISOR) | = | |

- The maximum length for any disposal field is 100'. If the total linear length of trench is greater than 100', use a distribution box to divide the total length into multiple trenches of equal length to distribute the effluent more effectively throughout the disposal field.
- The separation between the trench walls is a minimum of 5' or twice the effective depth, whichever is greater.

ON-SITE WASTEWATER SYSTEM PLOT PLAN

| Assessor Parcel: Goundaries of property shown on plan | (for 4.02 General Permit only. 4.02-4.22 must provide construction quality drawings) | | | | |
|--|---|---|--|--|--|
| Proposed/existing systems, dwellings, buildings, driveways, wimming pown. | | | | | |
| courts, wells, ponds, and any pavel, concrete or water fautree, shown. 3 Slopes and cut banks greater than 15%, retaining walls and other constructed features shown and provided the state of the stat | | | | | |
| Slopes and cut banks greater than 15%, retaining walls and other constructed features shown Pany feature less than 200 ft. from facility and reserve area that constrains the location due to setback limitations shown Topography shown with contour intervals, showing original and post-installation grades Property Size (in acres): | Legal Description: | | | | |
| Carp feature less than 200 ft. from facility and reserve area that constrains the location due to setback limitations shown Topography shows with contour intervals, showing original and post-installation grades Property Size (in acres): EXACT LOCATION of all solis testing and percolation sites Exact in Carl Carl Contour of the treatment and disposal works, pipelines, reserve area | | | | | |
| Property Size (in acres): | | | | | |
| Proper construction and installation of this system shall follow all applicable Federal, State, County and City laws. Mohave county disclaims any responsibility of the construction, installation, errors or omissions involved with this system and the sole responsibility for any of the above is with the owner or his/ber construction (s) and/or agents (s). The as-built drawing is provided for ease and convenience to locate the system in the future and not for construction purposes. | | setback limitations shown | | | |
| Permit Number: □ Location of the treatment and disposal works, pipelines, reserve area □ Location of any public sewer if less than 400 ft. from property line □ Location of any public sewer if less than 400 ft. from property line Proper construction and installation of this system shall follow all applicable Federal, State, County and City laws. Mohave county disclaims any responsibility of the construction, installation, errors or omissions involved with this system and the sole responsibility for any of the above is with the owner or hisher contractor (s) and/or agents (s). The as-built drawing is provided for ease and convenience to locate the system in the future and not for construction purposes. | | | | | |
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| The information within the plot plan submitted is true and accurate to the best of my knowledge; | responsibility of the construction, installati owner or his/her contractor (s) and/or agen | ion, errors or omissions involved with this system and the sole responsibility for any of the above is with the | | | |
| | The information within the plot plan subm | itted is true and accurate to the best of my knowledge; | | | |

Signature

Date: _

Title



P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman <u>www.mohave.gov</u> Telephone (928) 757-0903

| SEWER AVAILABILITY INFORMATION SHEET | | | | |
|---|--|---------------------------|-----------------|--|
| Service Provider/Company Name: | Submitted by: | | | |
| | Telephone: | | | |
| | Fax: | | | |
| Date: | | | | |
| Name of Property Owner: | | | | |
| Location Address: | | | | |
| Subdivision: | Tract: | Block: | Lot: | |
| Assessor Parcel Number: | | | | |
| Indicate below what type of project will be | constructed on the al | oove mentioned pr | operty: | |
| Residential (Single Family Only) | | | | |
| ☐ Commercial/Multi-family | Estimate flow rate in g | gallons per day: | | |
| ☐ Industrial | Estimate flow rate in g | gallons per day: | | |
| Flood Zone: | | | | |
| Applicant Signature: | | | | |
| Per an inquiry with the above-referenced service to serve the above-referenced location, sewer ☐ Yes, sewer is available and will be connect ☐ No, sewer connection exceeds fees of R18 ☐ N/A, no sewer service provider in subdivisi | is available at property: ted to 3-9-A309(A)(5)(b) (Engi on | neers/Contractor's | Estimate req.) | |
| DISCLAIMER: For North Kingman / New Kingman Add City of Kingman Sewer, opting to use on an onsite w service should an existing water meter not e | astewater system may resu | It in the City of Kingmar | n denying water | |
| Does this property have an existing water met | er: 🗆 YES 🗆 NC |) | | |
| Distance to sewer: feet | | | | |
| Comments: | | | | |
| | | | | |
| | | | | |
| | | | | |
| Sewer Provider Representative Signature: | | | | |
| | | | | |

MCDEQRevised:5.31.25



P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903

Scott Holtry Department Director Sam Elters, P.E. County Manager

TO: SANITARY DISTRICT OR UTILITY COMPANY

TEMPORARY INDIVIDUAL WASTE DISPOSAL SYSTEM

| l, | | , Owner | of property located in the |
|---|---|---------------------|----------------------------|
| | _ Subdivision, Tract _ | , Block | , Lot, |
| Address system to be installed to service m | <u>,</u> , | Arizona, understand | I that the sewage disposal |
| system to be installed to service my system. I, hereby agree to abase Environmental Quality Department subject to the requirements of R18 | andon such system int, and connect to mur | n a method appro | oved by the local |
| The Mohave County Development Division is to be notified prior to ab | • | | uality/Waste Management |
| TEMPORARY PERMIT # | ASSESSOR | S'S PARCEL# | |
| SIGNATURE OF PROPERTY OW | NER | DATE | |
| ARIZONA DEPT. OF ENVIRONME | ENTAL QUALITY | | DATE |
| MOHAVE COUNTY ENVIRONMEI WASTE MANAGEMENT REPRES | | DATE | |



Mailing Address: P. O. Box 7000, Kingman, Arizona 86402-7000

Owner's Authorization to Apply for Permits

Authorization <u>DOES NOT</u> allow the authorized applicant to conduct installation, construction, or any other type of contracting services.

If utilizing a contractor, permit application must include contractor's AZ ROC License #.

| Property Information | Date Received |
|---|---|
| Assessor Parcel Number | Parcel Size |
| Site Address | |
| Legal Description | |
| Property Owner | |
| Name | Email |
| PhoneN | Mailing Address |
| Authorized Applicant (Not contr | actor, unless AZ ROC license # is listed on permit application) |
| Name | Email |
| PhoneN | Mailing Address |
| Effective Period | |
| This authorization is: (select one) | □for a single permit to |
| | □in effect until removed in writing |
| Signature(s) | |
| | |
| | |
| Notary (REQUIRED) | |
| State of | |
| County of | <u>-</u> |
| This document was signed before me this | s(date) by |
| | (name(s) of person(s) signing). |
| The person(s) personally appeared before law. | e me and presented identification to establish his or identity as required by |
| | Signature of Notary |

Public My Commission expires____



DIVISION OF ENVIRONMENTALQUALITY

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohavecounty.us Telephone (928) 757-0903

Scott Holtry Department Director Sam Elters, P.E. County Manager

Individuals Pre-Qualified to perform Site Investigations in Mohave County

ADVANCED CIVIL SOLUTIONS, LLC.

Edward Rajnovich, Engineer 3234 E McVicar Ave Kingman, AZ 86409 (702) 274-4973 advancedcivilsolutions@outlook.com

ALLIANCE CONSULTING

Deloss S. Hammon, P.E. 2303 N. Coral Canyon Blvd #201 Washington, UT 84780 (435) 673-8060 dsh@allianceconsulting.us

ANNETTE COOK, R.S PERC'S PLUS

PO Box 6068 Kingman, AZ 86402 (928) 727-0687 - CELL cookannette777@gmail.com

ARQ ENGINEERING

Sandra Morse 4440 S. Highway 95, Suite A Fort Mohave, AZ 86426 (928) 758-3333 sandym@arqllc.com

ARROYO ENGINEERING CONSULTANTS, INC AARON C HASTINGS 1328 Echo Creek St. Henderson, NV 89052 (702) 241-5339 aaron@aec-nv.com

BROWN CONSULTING ENGINEERS

Steve Kamlowsky, PE 163 West 1600 South #5 St. George, UT 84770 (435) 628-4700 steve@browncivil.com

CANAAN PEAKS ENGINEERING

Brian Zitting
PO Box 841515
Hildale, UT 84784
(435) 467-1069 cpeemailservice@gmail.com

CIVIL WORKS ENGINEERING

Jed Noble (928) 279-4833 jed@civilworksengineering.com

DANIEL CAPARROS

21448 N 75TH Ave, STE 9, Glendale AZ 85308 (623) 776-5757 dcaparros@vlpartners.net

DANIEL R BULLOCH

750 W Pioneer Blvd Mesquite, NV 89027 (435) 592-2222 bullochdanny@gmail.com

ENVIROTEC

Claude Baker PO Box 10877 Prescott, AZ 86304 (928) 445-9611 Cvb44999@gmail.com

GEOTECHNICAL & ENVIRONMENTAL SERVICES

7150 Placid St. Las Vegas, NV 89119 (702) 9704378

mitch.gerlinger@ges-west.com

GEOTECHNICAL TESTING SERVICES

Christopher D. Volksen 1509 S. 270 E. #8 St. George, UT 84790 (435) 628-9536

IRON ROCK ENGINEERING

Sandy-Office Manager 460 E. 300 S. Kanab, UT 84741 (435) 644-2031 sandy@ireng.net

KEVIN B. KISSLER

1120 W. University Ave. Ste 200 (970) 676-1677 Kevin@EarthArtEngineering.com

LANDMARK TESTING & ENGINEERING

Kent R. Nelson 795 E Factory Drive St. George, UT 84790 (435) 986-0566

kent@landmarktesting.com

MOHAVE ENGINEERING ASSOC.

Peter Profitt, P.E. 2153 Gordon Dr. Ste. I Kingman, AZ 86409 (928) 753-2627 pprofitt@meaiaz.com

NEPTUNE SERVICES PLLC

Jason K. Garner, P.E. (928) 224-8380

jason@neptuneservicesaz.com

RACHELLE D. STALLARD, R.S.

7130 E Thrush Lane Prescott Valley, AZ 86314 (928) 699-1001

marvinred4@gmail.com

SAGUARO SOILS & SEPTIC DESIGN LLC

Pauline Higginbotham, RS/REHS (218) 556-1287 saguaroseptic@gmail.com

STEPHEN DALDRUP R.S.

17396 W Jefferson St (510) 230-8662 sdaldrup@yahoo.com

STRYTEK ENGINEERING

Russell Strytek 2428 Ashfork Ave. Kingman, AZ 86401 (928) 757-0150 info@strytekengineering.com

SUNRISE ENGINEERING, INC.

Joseph Phillips, P.E. 11 North 300 West Washington, UT 84780 (435) 652-8450

TIM WEISS

7150 Placid street Las Vegas, NV 89119 (702) 365-1001 tim.weiss@gesnevada.com

ARIZONA PERCS

Walker Mooneyham PO Box 620

Meadview, AZ 86444 626-826-5307

walkermooneyham@icloud.com

WESTERN TECHNOLOGIES

Jacob Quinlan
2400 E. Huntington Dr.
Flagstaff, AZ 86004
(928) 525-6782
jquinlan@rma-western.com

WESTERN TECHNOLOGIES

Gregory Burr 2400 E. Huntington Dr. Flagstaff, AZ 86004 (928) 774-8700

gburr@rma-western.com

The above individuals/companies have met the qualifications to perform site evaluations in Mohave County by providing proper credentials/certifications. The above listings are provided as a courtesy only and in no way constitute a recommendation from this department.

APPENDIX A



Example Design for a Conventional Septic Tank Disposal Field and Draft List of Materials, Components, and Equipment

System Design Inputs

- 1. Proposed system is for a 3-bedroom home.
- 2. Fixture count in house is 25.
- 3. Percolation tests per Arizona Administrative Code R18-9-A310(F) show that the soil percolation rate is 25.0 min/in.
- 4. No surface or subsurface limiting conditions are identified at the site.
- 5. Inlet to septic tank will be 15 ft from building drain.

Disposal Trench Design Based on Inputs

- 1. Design flow is 600 gal/day based on table at R18-9-A314(4)(a)(i). [450 gal/day for a 3-bedroom house plus another 150 gal/day for fixture count more than 21]
- 2. Design liquid capacity of septic tank is 1250 gallons based on same table.
- 3. SAR is 0.40 gal/day/ft², using the table at R18-9-A312(D)(2) based on the tested percolation rate of 25.0 min/in.
- 4. Trench is designed to be 2 ft wide, with 4 ft of sidewalls below disposal pipe.
- 5. Based on selected trench configuration, the trench absorption area is 10 square feet per linear foot of trench. [(4 ft + 2 ft + 4 ft) x 1 ft in length]
- 6. Wastewater loading in trench is 4.0 gal/day per linear foot [10 ft²/linear ft x 0.40 gal/day/ft2]
- 7. Trench length, therefore, is 150 linear feet. [600 gal/day \div 4 gal/day/linear ft]
- 8. Decision is made to construct two parallel 75' trenches served by distribution box. Distribution box is located 5 ft from septic tank and each trench will be constructed after a 10 ft run of pipe from distribution box.
- 9. Total volume of aggregate in the disposal field is 50.00 cubic yards.
 - a. 44.44 yd^3 beneath disposal pipe $[4 \text{ ft } x \text{ 2 ft } x \text{ 150 ft} \div 27 \text{ ft}^3/\text{yd}^3 = 44.44 \text{ yd}^3]$
 - b. 5.56 yd^3 around and above disposal pipe $[(4 \text{ in of pipe height} + 2 \text{ in above pipe} = 0.5 \text{ ft}) \times 2 \text{ft} \times 150 \text{ ft} \div 27 \text{ ft}^3/\text{yd}^3$ $= 5.56 \text{ yd}^3]$
- Total volume of pea gravel bedding below septic tank is 1.5 yd^3 based on typical manufacturer's specification of 6 in of fill below septic tank, typical dimensions for 1250-gal septic tank of 10.25 ft x 5.25 ft, and 0.5 ft over dig of hole on each side [((10.25 ft + 0.5 ft + 0.5 ft) x (5.25 ft + 0.5 ft) = 70.31 ft^2) x 0.5 ft ÷ $27 ft^3/yd^3 = 1.30 yd^3$, say $1.5 yd^3$]

Based on the above design, the following is a model list of materials for submittal with the Notice of Intent to Discharge:

List of Materials, Components, and Equipment

- ea 1250-gallon septic tank with effluent filter meeting the requirements of Arizona Administrative Code (A.A.C.) R18-9-A314.
- 2 ea Riser with cover, [brand/model] or equivalent, meeting the requirements of A.A.C. R18-9-A314(1)(d).
- 1.5 yd³ Pea gravel or equivalent bedding for septic tank per manufacturer's handling and installation instructions required by R18-9-A314(3)(d)(2).
- 15 ft Sewer line pipe, DMV, Schedule 40, ASTM F891, and fittings.*
- 50 yd³ Aggregate meeting A.A.C. R18-9-101(1).
- 25 feet Distribution pipe (thin wall), PVC, 4-inch, ASTM D2729, and fittings.* [5 ft + 10 ft + 10 ft]
- 150 feet Disposal pipe (thin wall), PVC, 4-inch, perforated, ASTM D2729, and fittings.*
- 1 ea Distribution box with seals, minimum of 2 outlet holes, [brand/model] or equivalent.
- 150 feet Geotextile, minimum 24-inch wide, [brand/model] or equivalent.

- 1. Normal solid PVC "thin wall" pipe
 - a. PVC distribution pipe, 3-inch, ASTM D2729
 - b. PVC distribution pipe, 4-inch, ASTM D2729
- 2. Perforated PVC "thin wall" pipe
 - a. PVC disposal pipe, perforated, 3-inch, ASTM D2729
 - b. PVC disposal pipe, perforated, 4-inch, ASTM D2729
- 3. Schedule 40 PVC DWV (drain, waste, and vent) pipe
 - a. DWV, Schedule 40, 3-inch, ASTM F891
 - b. DWV, Schedule 40, 4-inch, ASTM F891
- 4. Solid black ABS Schedule 40 pipe
 - a. ABS distribution pipe, Schedule 40, 3-inch, ASTM F628
 - b. ABS distribution pipe, Schedule 40, 4-inch, ASTM F628
- 5. SDR-35 "high strength" pipe
 - a. SDR-35 distribution pipe, 3-inch, ASTM D3034
 - b. SDR-35 distribution pipe, 4-inch, ASTM D3034

^{*}Typical pipe specifications that might be used in disposal field installations:

APPENDIX B

INFORMATION NEEDED ON ON-SITE WASTEWATER PLAN

(Please refer to example)

- 1. Property lines include all distances and exact angles
- 2. Show scale on plan (e.g. 1"=20")
- 3. Show percolation test/soil evaluation locations system must be installed in area of site evaluation.
- 4. Indicate "North" with an arrow
- 5. Streets adjacent to your property. Indicate your complete address as well as the legal description.
- 6. Structures (existing and proposed) including, but not limited to, mobiles, site built homes, garages, awnings, porches, decks, pools, entryways, barns, sheds, fences and retaining walls.
- 7. Indicate distances from the on-site system to any:

a. slopesb. structuresf. riversg. reservoirs

c. property lines h. water mains and domestic water lines

d. easements i. driveways
e. wells j. swimming pools

- 8. Maintain all setbacks as required by Aquifer Protection Permit R-18-9-A312(C). A list is available at the DS counter
- 9. Show location of septic tank, distribution box (if applicable), leach lines and 100% reserve area.
 - a. Give exact length, width and effective depth of leach field.
 - b. If using more than one line, even distribution must be obtained through installation of a distribution box.
 - c. 90° Angles in the leach field are not permitted.
 - d. Flow must be through the head of the leach field to ensure even distribution.
- 10. Size the system <u>correctly</u>. Use the appropriate Soil Absorption Rate [SAR- provided to you by your site evaluator or you may find it in the Aquifer Protection Permit R18-9-A312 (D)].

DEFICIENCIES DURING REVIEW

Should there be any deficiencies found during the review process, the Development Services Department (DS) will immediately deny application and contact the applicant via letter or fax stating the reasons for denial. A resubmittal fee may apply to denied applications.

DESIGN OF SYSTEM

The Development Services (DS) Staff <u>cannot</u> design on-site wastewater systems. Should you need help with design, refer to the Aquifer Protection Permits or contact a designer. The Development Services Staff will review applications, and issue <u>Construction Authorizations</u> and <u>Discharge Authorizations</u> only.

SYSTEMS INSTALLED PRIOR TO APPLICATION APPROVAL

Should the DS Staff discover an on-site system that was installed before a <u>Construction Authorization</u> was issued (application approved), the system will be red-tagged and a fee will apply in addition to the application/permit fee.

MODIFICATIONS TO SYSTEM

Should the DS Staff inspect a system that was installed contrary to what was approved on the application without notification, a red tag will be issued and a fee may be applied for changes. This fee will include the review of modifications made to the system and one final inspection to be paid before a yellow tag is issued.

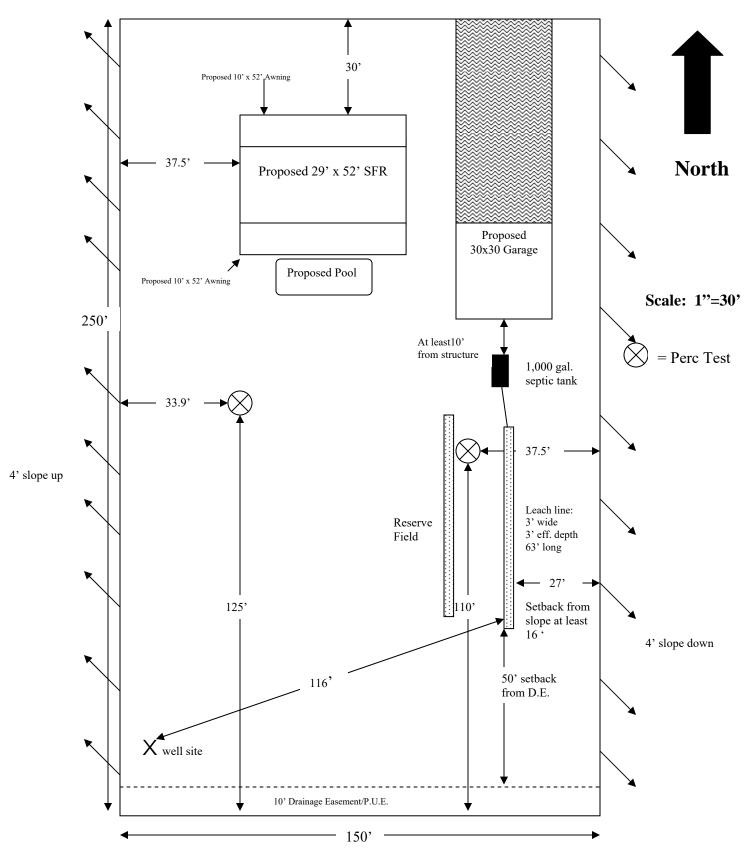
CONSTRUCTION INSPECTION DEFICIENCIES

If the DS staff are called for an inspection and the system is, in any way, installed incorrectly, a fee will be charged for each additional inspection required, after the second red tag. The fee will be payable prior to the additional inspection.

APPENDIX B

Mohave County On-Site Wastewater Example Plot Plan

12345 Environmental Quality Way



Legal Description:

Assessor's Parcel Number (APN): 123-45-678

Subdivision: Healthy People **Tract** 1234 **Lot** 56 - **Block** A

APPENDIX C

- C. Setbacks. The following setbacks apply unless the Department:
 1. Specifies alternative setbacks under Article 3, Part E of this Chapter;
 2. Approves a different setback under the procedure specified in subsection (G); or

 - 3. Establishes a more stringent setback on a site or area specific basis to ensure compliance with water quality standards.

| Features Requiring Setbacks | Setback For An On-Site Wastewater Treatment Facility, Including Reserve Area (In Feet) | Special Provisions |
|--|---|---|
| 1. Building | 10 | Includes porches, decks, and steps (covered or uncovered), breezeways, roofed patios, carports, covered walks, and similar structures and appurtenances. |
| 2. Property line shared with any adjoining lot or parcel not served by a common drinking water system* or an existing water well | 50 | A person may reduce the setback to a minimum of 5 feet from the property line if: a. The owners of any affected undeveloped adjacent properties agree, as evidenced by an appropriately recorded document, to limit the location of any new well on their property to at least 100 feet from the proposed treatment works and primary and reserve disposal works; and b. The arrangements and documentation are approved by the Department. |
| 3. All other property lines | 5 | None |
| 4. Public or private water supply well | 100 | None |
| 5. Perennial or intermittent stream | 100 | Measured horizontally from the high water line of the peak streamflow from a 10-year, 24-hour rainfall event. |
| 6. Lake, reservoir, or canal | 100 | Measured horizontally from the high water line from a 10-year, 24-hour rainfall event at the lake or reservoir. |
| 7. Drinking water intake from a surface water source (includes an open water body, downslope spring or a well tapping streamside saturated alluvium) | 200 | Measured horizontally from the on-site wastewater treatment facility to the structure or mechanism for withdrawing raw water such as a pipe inlet, grate, pump, intake or diversion box, spring box, well, or similar structure. |
| 8. Wash or drainage easement with a drainage area of more than 20 acres | 50 | Measured horizontally from the nearest edge of the defined natural channel bank or drainage easement boundary. A person may reduce the setback to 25 feet if natural or constructed erosion protection is approved by the appropriate flood plain administrator. |
| 9. Water main or branch water line | 10 | None |
| 10. Domestic service water line | 5 | Measured horizontally between the water line and the wastewater pipe, except that the following are allowed: a. A water line may cross above a wastewater pipe if the crossing angle is between 45 and 90 degrees and the vertical separation distance is 1 foot or more. b. A water line may parallel a wastewater pipe with a horizontal separation distance of 1 foot to 5 feet if the bottom of the water line is 1 foot or more above the top of the waste- water pipe and is in a separate trench or on a bench in the same trench. |

Department of Environmental Quality - Water Pollution Control

| 11. Downslopes or cut banks greater than 15 percent, culverts, and ditches from: | | |
|--|-----|--|
| a. Treatment works components | 10 | Measured horizontally from the bottom of the treatment works component to the closest point of daylighting on the surface. |
| b. Trench, bed, chamber technology, or gravel less trench with: | | Measured horizontally from the bottom of the lowest point of the disposal pipe or drip lines, as applicable, to the closest point of daylighting on the surface. |
| i. No limiting subsurface condition specified in R18-9-A310(D)(2), | 20 | |
| ii. A limiting subsurface condition. | 50 | |
| c. Subsurface drip lines. | 3 | Measured horizontally from the bottom of the lowest point of the disposal pipe or drip lines, as applicable, to the closest point of daylighting on the surface. |
| 12. Driveway | 5 | Measured horizontally to the nearest edge of an onsite wastewater treatment facility excavation. A person may place a properly reinforced and protected wastewater treatment facility, except for disposal works, at any location relative to a driveway if access openings, risers, and covers carry the design load and are protected from inflow. |
| 13. Swimming pool excavation | 5 | Except if soil loading or stability concerns indicate the need for a greater separation distance. |
| 14. Easement (except drainage easement) | 5 | None |
| 15. Earth fissures | 100 | None |

^{*} A "common drinking water system" means a system that currently serves or is under legal obligation to serve the property and may include a drinking water utility, a well-sharing agreement, or other viable water supply agreement.

APPENDIX D

CHECKLIST:

INSPECTION OF YOUR ON-SITE WASTEWATER SYSTEM

- Discharge Authorization received (this document, which is a request for inspection is submitted to the Development Services Department at least 24 hours prior to when the inspection is needed).
- Water Tightness Certification received (This test is conducted by the person installing the system prior to the inspection request).
- System has been left uncovered for inspection
- Property Boundaries are visibly marked four corners
- All required setbacks met, (buildings, easements, drainage easements, washes, driveways, property lines, slopes, etc.)
- Design and construction verified
- Installed tank size as per approved plan
- GPS coordinates taken at the inlet of the tank
- Inlet and Outlet T is stable and level
- Risers, if required, are in place
- Seal around inlet & outlet of septic tank checked to insure water tightness
- Effluent filter in place
- Tank is level
- Five feet of solid pipe between tank and leach field
- Leach field pipe level
- The ends of the leach lines capped and exposed for inspection
- Size of gravel is uniform. ³/₄" -2 ¹/₂" in diameter and clean
- Laterals connecting multiple lines are solid pipe
- If multiple lines present, even distribution is achieved & distribution box present and level
- Sufficient room available for reserve area
- Lot is vacant

What color tag to look for and what you tag indicates:

Yellow tag issued: system can be covered - Final Approval paperwork to follow.

<u>Red tag issued</u>: requirements are not met, contact inspector – Corrections must be made before backfilling.

<u>Blue tag issued</u>: all required documents have not been received - If alternative system, Engineer's Certificate of Completion is required.

Wastewater contains nutrients, such as nitrates

- Conserve water to avoid overloading the septic system. Be sure to repair any leaky faucets or toilets. Use low-flow fixtures.
- Do not use caustic drain openers for a clogged drain. Instead, use boiling water or a drain snake to open clogs.
- Do not use septic tank additives, commercial septic tank cleansers, yeast, sugar, etc. These products are not necessary and some may be harmful to your system.
- Use commercial bathroom cleaners and laundry detergents in moderation. Many people prefer to clean their toilets, sinks, showers, and tubs with a mild detergent or baking soda.

continued . . .

HOW IT WORKS

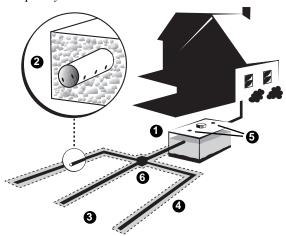
More than 25 million homes, encompassing almost 25 percent of the U.S. population, dispose of domestic wastewater through onsite (unsewered) systems. According to the American Housing Survey for the United States, in 1993 1.5 (million) out of every 4 (million) new owneroccupied home starts relied upon a form of onsite sewage disposal.

So ... now you own a

septic system

One of the major differences between owning an unsewered versus a sewered home is that unsewered wastewater treatment and disposal systems must be maintained by the homeowner. Treatment and disposal of wastewater should be one of the primary concerns of any homeowner in an unsewered area.

The most common way to treat and dispose of wastewater in rural homes is through the use of an onsite disposal system. The majority of onsite disposal systems in the United States are septic systems.



- 1 septic tank
- 2 4" perforated pipe
- 3 absorption field
- A crushed rock or gravel lined trench
- **5** inspection ports
- 6 distribution box

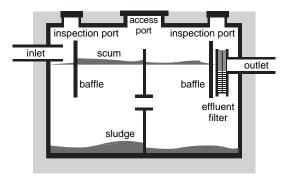
A typical septic system contains two major components: a septic tank and the absorption field (see Figure 1). Often, a distribution box is included as part of the system to separate the septic tank effluent evenly into a network of distribution lines that make up the absorption field. The septic tank is usually made of concrete, fiberglass, or plastic, is typically buried and should be watertight. All septic tanks have baffles (or tees) at the inlet and outlet to insure proper flow patterns (see Figure 2). Most septic tanks are single compartment; however, a number of states require two-compartment tanks or two single compartment tanks in series.

APPENDIX E

While typically designed to hold a minimum of 750-1000 gallons of sewage, the size of the tank may vary depending upon the number of bedrooms in the home and state and local regulatory requirements. The primary purpose of the septic tank is to separate the solids from the liquids and to promote partial breakdown of contaminants by microorganisms naturally present in the wastewater. The solids, known as sludge, collect on the bottom of the tank, while the scum floats on the top of the liquid. The sludge and scum remain in the tank and should be pumped out periodically (see Figure 2).

Solids that are allowed to pass from the septic tank may clog the absorption field. Keeping solids out of the absorption field not only prevents clogging, but also reduces potentially expensive repair or replacement costs and helps ensure the ability of the soil to effectively treat the septic tank effluent. Therefore, an additional safeguard in keeping solids out of the absorption field is the use of effluent filters on the outlet of the septic tank (see Figure 2).

The wastewater (effluent) coming out of the septic tank may contain many potentially disease-causing microorganisms and pollutants (i.e., nitrates, phosphates, chlorides). The effluent is passed on to the absorption field through a connecting pipe or distribution box. The absorption field is also known as the soil drainfield, the disposal field, or the leachfield. The absorption field contains a series of underground perforated pipes, as indicated in Figure 1, that are

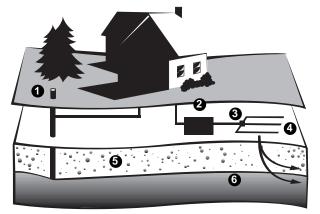


Cross-section of a two-compartment septic tank

Fig. 2

sometimes connected in a closed loop system, as illustrated on the front cover, or some other proprietary distribution system

The effluent is distributed through the perforated pipes, exits through the holes in the pipes, and trickles through the rock or gravel where it is stored until absorbed by the soil. The absorption field, which is located in the unsaturated zone of the soil, treats the wastewater through physical, chemical, and biological processes. The soil also acts as a natural buffer to filter out many of the harmful bacteria, viruses, and excessive nutrients, effectively treating the wastewater as it passes through the unsaturated zone before it reaches the groundwater (see Figure 3).



- 1 drinking water well
- 2 septic tank
- distribution box
- 4 absorption field
- **5** soil absorption (unsaturated zone)
- 6 groundwater (saturated zone)

Typical Septic System Fig. 1

- Check with your local regulatory agency if you have a garbage disposal unit to make sure that your septic system can accommodate this additional waste.
- Check with your local regulatory agency before allowing water softener backwash to enter your septic tank.
- Your septic system is not a trash can. Do not put grease, disposable diapers, sanitary napkins, tampons, condoms, paper towels, plastics, cat litter, latex paint, pesticides, or other hazardous chemicals into your system.
- Keep records of repairs, pumpings, inspections, permits issued, and other system maintenance activities.
- Learn the location of your septic system. Keep a sketch of it handy with your maintenance record for service visits.
- Have your septic system inspected every 1–2 years and pumped periodically (usually every 3–5 years) by a licensed inspector/ contractor.
- Plant only grass over and near your septic system. Roots from nearby trees or shrubs may clog and damage the absorption field.
- Do not drive or park over any part of your septic system. This can compact the soil and crush your system.

In summary, understanding how your septic system works and adhering to these few simple rules will ensure that your septic system is a safe and economical method for treating and disposing of your wastewater onsite.

So ... now you own a septic system

One in a series of three brochures designed to aid you in caring for your septic system.



For more information regarding the care of your septic system, contact your local health department.

More information about septic systems is available from the National Small Flows Clearinghouse (NSFC) through other brochures in this series:

Groundwater protection and your septic system, Item #WWBRPE21

The care and feeding of your septic system,

Item #WWRRPE18

For more information about this or other NSFC products, please contact us by writing to:
National Small Flows Clearinghouse
West Virginia University
P.O. Box 6064
Morgantown, WV 26506-6064
or phone:
(800) 624-8301, (304) 293-4191
or fax: (304) 293-3161

www.nsfc.wvu.edu



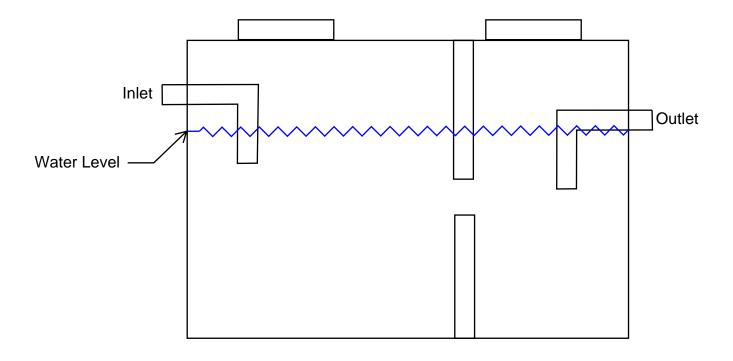
Helping America's small communities meet their wastewater needs



Helping America's small communities meet their wastewater needs

APPENDIX F

WATER TIGHTNESS TEST INSTRUCTIONS



R18-9-A314(5)(d):

The septic tank is tested for watertightness after installation by the water test described in subsections (5)(d)(i) and (5)(d)(ii) and repaired or replaced, if necessary.

- i. The septic tank is filled with clean water, as specified in R18-9-A310(A), to the invert of the outlet and the water left standing in the tank for 24 hours and:
 - (1) After 24 hours, the tank is refilled to the invert, if necessary;
 - (2) The initial water level and time is recorded; and
 - (3) After one hour, water level and time is recorded.
- ii. The tank passes the water test if the water level does not drop over the one-hour period. Any visible leak of flowing water is considered a failure. A damp or wet spot that is not flowing is not considered a failure.



Scott Holtry Department Director

REQUEST FOR DISCHARGE AUTHORIZ ATION

FOR AN ONSITE WASTEWATER TREATMENT FACILITY TYPE 4.02-4.22 PERMIT

Sam Elters, P.E. County Manager

| 1. Owner's Information | | | | |
|--|--|--|--|--|
| Name | Septic Permit #: | | | |
| Site Address | | | | |
| Mailing Address | City Zip | | | |
| 2. Applicant | | | | |
| Name | Phone | | | |
| | | | | |
| Title | Firm Name | | | |
| Mailing Address | City Zip | | | |
| 3. Contact Person/Agent (if different from applicant) | | | | |
| Name | | | | |
| Title | | | | |
| Mailing Address | CityZip | | | |
| 4. Conformance with Information Submitted in Notice of I | | | | |
| Original site plan submitted with Notice of Intent to Discharge accurate | | | | |
| A revised site plan is attached showing final location and configuration | of components. tion, dimension, depth, material, or installation procedure is allowed under | | | |
| | fic standard in rule used as the basis of design. Any such changes must be | | | |
| recorded on the site plan. Any MAJOR changes will result in an additional | | | | |
| 5. Additional required information submitted to Departme | | | | |
| | Final operation and maintenance manual | | | |
| | ne year) for 4.04, 4.08-4.15, 4.16 if it includes a pump, & 4.18-4.22 | | | |
| | License Number | | | |
| *Final Inspection will not be performed until all the above are su | bmitted (sections 4 and 5)* | | | |
| 6. Septic Tank Water Tightness | | | | |
| Tank manufacturer | Model Name/Number | | | |
| Certificate of Conformance with Septic Tank Manufacturing Requi | | | | |
| | ssed [R18-9-A309.C.1] &Attachment 1 completed? Yes No | | | |
| 7. Map to Property | , | | | |
| Map to property is attached Yes No | | | | |
| 8. Certification (To be completed by the applicant in item 2 | above) | | | |
| By signing below, the applicant understands the following: | , | | | |
| 1. Inspection by the DSD per R18-9-A301.D.2.a is required and is now | | | | |
| 2. Should the facility not comply with requirements specified in the Aquifer Protection Permits, additional inspection and/or plan review fees may be | | | | |
| requested prior to issuance of the Discharge Authorization. | | | | |
| 3. The applicant and/or an authorized on-site representative of the regulated person may accompany the inspector on the premises, except during confidential interviews | | | | |
| 4. The applicant has a right to any copies of original documents, a split of any samples taken during the inspection if the split of any samples will not | | | | |
| prohibit an analysis from being conducted or render an analysis inconclusive and copies of any analysis performed on samples taken during the | | | | |
| inspection. | | | | |
| 5. Any statements made during the inspection may be included in the inspection report The applicant may contact the DSD at (038) 757,0003 should any questions grice recording the inspection. | | | | |
| 6. The applicant may contact the DSD at (928) 757-0903 should any questions arise regarding the inspection 7. The applicant is entitled to due process rights relating to an appeal of a final decision of the DSD based on the results of the inspection, and may | | | | |
| contact the DSD at the above number for more information regarding the appeal process. | | | | |
| I,, certify that I have read the above notices and that the information in this Request for Discharge | | | | |
| Authorization and all attachments are, to the best of my knowledge, true, accurate and complete. I also certify that the wastewater treatment facility conforms | | | | |
| to the design approved under the Construction Authorization for this facility in accordance with the Type 4 General Aquifer Protection Permit (R18-9-E302 to R18-9-E323), and applicable requirements of Arizona Revised Statutes Title 49, Chapter 2, and Arizona Administrative Code Title 18, Chapter 9 regarding | | | | |
| | bmitting false information including the possibility of fine and imprisonment for | | | |
| knowing violations. | | | | |
| | | | | |
| Signature Applicant Applicant's Representative | Date | | | |
| DEPARTMENT USE ONLY | DATE STAMP | | | |
| Constructed within 2 years Yes No | | | | |
| | | | | |
| | | | | |

ATTACHMENT 1 - CERTIFICATE OF WATER TIGHTNESS OF AN INSTALLED SEPTIC TANK DETERMINED BY FIELD WATER TIGHTNESS TESTING UNDER ARIZONA ADMINISTRATIVE CODE R18-9-A309(C)(1)

| 1 | Project Information | | | | |
|---|--|-----------|------|--|--|
| | A) Applicant Name | | | | |
| | B) Owner Name | | | | |
| | C) Septic Permit # | Parcel #: | | | |
| 2 | Water tightness Tester | | | | |
| | A) Name | | | | |
| | B) Company | | | | |
| | C) Address | | | | |
| | | | | | |
| 3 | Septic Tank Information | | | | |
| | A) Manufacturer | | | | |
| | B) Brand/Model | | | | |
| | C) Design Liquid Capacity | | | | |
| 4 | Water tightness Test Information | | | | |
| | Description | Date | Time | | |
| | 1. Start presoak with clean water | | | | |
| | 2. Start water tightness test | | | | |
| | 3. End water tightness test | | | | |
| | Passed water tightness test without repair (no water drop over 1-hour period per A.A.C. R18-9-A314(5)(d)(ii)) | | | | |
| | Passed water tightness test following repair | | | | |
| 5 | Certification | | | | |
| | I have tested the installed septic tank for the above-named project in accordance with the water tightness testing requirement | | | | |
| | specified in Arizona Administrative Code R18-9-A314(5)(d) and certify that the septic tank passed the water tightness test. | | | | |
| | | | | | |
| | Signature of Tester | | Date | | |
| | | | | | |