

PROCEDURES TO OBTAIN A PERMIT TO INSTALL HOUSEHOLD SEWAGE TREATMENT SYSTEM

SANDUSKY COUNTY HEALTH DEPARTMENT

NOTE: THE FOLLOWING ARE PROHIBITED;

1. No household sewage treatment system shall be sited within a floodway, 100 year flood plain, wet land subject to US Army Corps of Engineers 404 permit and/or Ohio Environmental Protection Agency 401 certification, or within an isolated wetland.
2. No household sewage treatment system shall be sited within the sanitary isolation radius of a public water system well.
3. No household sewage treatment system shall be sited where there is exposed bedrock, boulders, stones, gravel and coarse sand at or above the surface of the ground or underlain within one foot of the ground surface.
4. No household sewage treatment shall be sited on slopes in excess of the limits of the design, installation, maintenance or operation of the proposed house sewage treatment system or when there is risk of slippage, slump, or landslide.
5. No household sewage treatment system shall be sited in filled, reclaimed, or disturbed areas where soil and site conditions may not be adequate to provide treatment and/or dispersal.
6. No household sewage treatment system shall be sited, permitted, or installed where a sanitary sewage system is accessible

I. SITE AND SOIL EVALUATION

A site and soil evaluator shall be capable of properly conducting site and soil investigations and accurately recording required information. Demonstration of competency may include, but is not limited to, certification as a professional soil scientist by the association of Ohio pedologists or ARCPAC.

- A. The site and soil evaluation shall include the assessment and documentation of the following:
 - (1) Designation of the described soil boring and/or excavation locations and the information required in paragraphs (B) (3) and (B) (4) of Ohio Administrative Code rule 3701-29-08 on the site plan required in rule 3701-29-09-1. of the Administrative Code or on a preliminary site drawing adequate to provide the required site and soil evaluation documentation. A scaled site drawing shall at least include:

- (a) The dimensions of the lot or the proposed lot;
 - (b) Any existing dwellings and/or structures and any proposed dwellings and/or structures if known;
 - (c) Any site disturbances, existing driveways and other hardscapes, and proposed hardscapes or related site disturbances if known;
 - (d) Location of all private water systems and surface water features on the lot and within fifty feet of the lot boundary, or within fifty feet of the locations specified in paragraph (B) of Ohio Administrative Code rule 3701-29-08.
 - (e) North orientation arrow.
- (2) Record of site and soil characteristics for each soil boring and/or excavation location using USDA NRCS nomenclature on the attached form, including but not limited to:
- (a) Site description: landscape position, slope, vegetation, drainage features, rock outcrops, erosion and other natural features;
 - (b) Detailed soil profile descriptions: color, texture, structure, consistence, and the depth of each soil horizon or layer and characterization of all limiting conditions; and
 - (c) Documentation of any relevant surface hydrology, geologic and hydrogeologic risk factors for the specific site or in the surrounding area that may indicate vulnerability for surface water and ground water contamination.
- (3) Drawings and dimensions on the site plan or site drawing of at least two locations on the site that have been evaluated and determined to have the capacity for the treatment and/or dispersal of sewage from the proposed dwelling or structures including adequate length parallel to the land contour to accommodate the soil and linear loading rates for the conditions recorded.
- (4) Identification on the site plan or site drawing of the area for which each soil profile description is representative and designation of any areas with conditions that would prohibit or impact the siting of a sewage

treatment system in accordance with this Ohio Administrative Code 3701-29.

Applicant is responsible to schedule a site investigation with this department when the soil evaluation is performed. Failure to do so may result in the rejection of the soil evaluation by this department.

II. LAYOUT PLAN OR DESIGN PLAN

- A. A registered installer may submit a layout plan in compliance with rule 3701-29-13.1 or rule 3701-29-13.2 of the Administrative Code. A layout plan may substitute for the design plan required in paragraph (B) of this rule when the proposed Household Sewage Treatment System does not utilize a soil depth credit for pathogen reduction. A layout plan shall include:
- (1) A site plan drawn to scale on eight and a half inch by eleven inch or larger paper showing Household Sewage Treatment System layout elevations corresponding to flagged or staked locations at the site. The designated household sewage treatment system area shall be protected from disturbance. The site plan shall also verify horizontal isolation distances and include the designated area for complete relocation and replacement of the Household Sewage Treatment System as required in paragraph (E) or rule 3701-29-07 of the Administrative Code.
 - (2) Written details on the daily design flow, selected loading rates based on the site and soil evaluation, system configuration with absorption area dimensions, and, if applicable, pump selection information and pressure distribution network description and calculations.
 - (3) Product information and written description of materials and system components including size of all tanks and distribution component materials including mechanical distribution and diversion mechanisms.
 - (4) Manufacturer operation and maintenance requirements or instructions for components not addressed in general operation and maintenance information available through the board of health or the department of health.
 - (5) Any additional information requested by the board of health related to components, materials, and installation or operation and maintenance specifications.
- (B) A design plan in compliance with Rule 3701-29-09.1 of the Ohio Administrative Code, paragraph 3 shall be required unless a layout plan is provided by a registered installer in compliance with paragraph (A) of Rule 3701-29-09.1 A design plan shall be legible, readable, and of sufficient detail to demonstrate compliance with the provisions of this chapter. A design plan shall include:

- (1) Documentation of the rationale for design decisions used to address site and soil limitations including justification for selected loading rates and the use of any soil depth credits. The site and soil evaluation shall be available with the design plan.
- (2) Description of the dwelling and/or structure to be served by the sewage treatment system with a designated daily design flow including any anticipated variations. The sewage treatment system shall be designed to handle peak daily design flows or the design shall include flow equalization with designated reserve and surge capacity and timed dosing in compliance with rule 3701-29-11 of the Administrative Code.

Include a floor plan of the dwelling and/or structures to be served by the sewage treatment system indicating location and type of plumbing fixtures.

Indicate any non-residential water usage; home bakery, dog grooming, beauty salon, truck washing, etc.

- (3) Description of the treatment process used to meet performance requirements including information necessary to confirm compliance with any applicable NPDES effluent quality standards or applicable standards established in rule 3701-29-12 of the Administrative Code. In addition, if applicable, documentation of pollutant concentrations and mass loading in excess of residential waste strength, including the design for treatment to reduce higher strength wastewater to typical residential waste strength prior to distribution to a soil absorption component.
- (4) Plan notes designating that the sewage treatment system area shall be protected from disturbance, and additional plan notes as needed to explain any siting, installation, or operation and maintenance requirements or restrictions, including any preconstruction meetings at the site, conditions on the selection of an installer, sewage treatment system start-up procedures or other designer-designated conditions.
- (5) A site plan drawn to a scale of one inch equals fifty feet or less, sufficient to demonstrate compliance with this chapter including but not limited to:
 - (a) North directional arrow.
 - (b) Identified vertical and horizontal reference point or benchmark with its location clearly marked at the site.
 - (c) Designation of the described soil boring and/or excavation locations from the soil and site evaluation.
 - (d) Outline of existing and proposed structures, driveways and other hardscapes, and other related items on the property.

- (e) Location of sewage treatment system components and a replacement area.
 - (f) The dimensions of the property with horizontal isolation distances to the sewage treatment system and replacement area from the items designated in paragraph (E) or rule 3701-29-07 of the Administrative Code, including but not limited to private water systems and surface water features.
 - (g) Topography for the areas of the dwelling and/or structures to be served and the proposed sewage treatment system and designated replacement areas including an indication of drainage features in these and surrounding areas.
 - (h) Designation of any easements, disturbed areas, or wooded areas within fifty feet of the proposed sewage treatment system and replacement area, or other site characteristics or obstructions that may affect the installation or operation of the sewage treatment system.
 - (i) Means of access for operation and maintenance equipment to service the sewage treatment system.
- (6) Enlarged plan view drawing of the sewage treatment system components if the site plan scale does not allow for sufficient detail.
 - (7) Profile drawing showing elevations relative to surface grade sufficient to demonstrate compliance with Ohio Administrative Code chapter 3701-29 including the invert elevations necessary to assess the hydraulic profile of sewage treatment system components and any gravity or pumped discharge outlet elevations.
 - (8) Plan and section views for the sewage treatment system components and/or attachments or component and material specification information.
 - (9) Installation and operation and maintenance instructions.
 - (10) Plan note requiring that the sewage treatment system installer consult with the designer regarding any intended changes to the plan and requiring installer/designer coordination on the provision of an accurate as-built record.

Upon completion of items of I & II, submit this information with the application and the following fees:

Application fee	\$200.00
Drainage review fee	<u>100.00</u>
Total fee due	\$ 300.00

You shall be notified in writing on whether the proposed design plan or layout plan, or proposed household sewage treatment system alteration is in compliance with the rules.

