470 S Sandusky St, Delaware, OH 43015 43015 Phone: (740) 368-1700 Fax: (740) 368-1736

Leaching	Design	Plan	Checkl	ist
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Date Received:	Property Owner:	
Property Address		

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Indicates plan meets ODH & DPHD requirements	YES	NO	N/A
Site and Soil Survey			
Do the plans match the calculations			
Notes Required			
Designation in notes that the designer is available to make adjustments and address concerns, as			
needed			
O&M requirements noted or provided			
Designation of any other obstructions			
Designation in notes that homeowner has been informed of system options and cost			
Designation in notes to contact designer before making changes to the design			
Designation in notes for protection of primary and replacement areas			
Date designer and/or designee visited the site			
Installation instructions			
29-05			
Site review fee paid			
Plan review fee paid			
29-06			
No unapproved connections to STS (e.g. roof, foundation, clear water sump, swimming pool, etc.)			
System is non-discharging			
10' isolation distances (utility line, roadway, driveway, property line, right-of-way, sealed well, recorded easement,			
intermittent stream, swale, geothermal horizontal closed loop, irrigation line, GWRS, hardscape, etc.)		<u> </u>	
50' isolation distances (surface water impoundment, lake, river, wetland, perennial stream, road cut-bank, stream cut-			
bank, water supply source, vertical open and closed loop geothermal, etc.)	_	+	
STS sited on lot	_	+	-
STS not in floodway, or wetland	_	+	
If within 100 year flood plain, STS is below grade	_	-	
Sanitary sewer not accessible			
29-07			
Soils submitted by qualified individual	_	-	
Limiting conditions described and noted	_	-	
Depth to limiting layer adequate	_	+	
Depth to restrictive layer adequate	_	-	
Soil horizons and depth indicated	_	-	
Soil texture and structure of each horizon indicated	_	+	
Slope and contours indicated	_	+	
Basal loading rate and linear loading rate are appropriate for soils utilized	_	+	-
Soil classifications	_	+	
Highly permeable soil identified			
29-10			
House plan provided (with bedrooms)	_	+	
Daily design flow (with anticipated variations)	_	+	-
Plan view	_	₩	-
Rationale for design, if differing from standards	_	₩	-
Description of treatment process			

Topography, scale, and north arrow provided	
Elevations (house, tanks, pumps, beginning/middle/end of distribution area etc.)	
Dimensions of property	
Pump info/pump curve	
Pressure distribution network with description and calculations	
Product info (Materials, Components, Tank Sizes, etc.)	
Length and width of treatment areas adequate	
Designation of primary and secondary treatment area mapped on plan	
Adequate access for O&M equipment provided	
Designation of hardscapes, easements, disturbed areas, soil boring locations, wooded areas, and	
notable areas of concern mapped on plan	
29-12	
Tank size adequate	
Tank approved by ODH	
Dosing tank accommodates reserve and/or surge capacity	
Pump properly sized and provided with accessible quick disconnect	
Air vacuum release valve (needed if pump fitting or transport line is at a higher elevation than soil absorption	
component.)	
Switches, controls, alarms and electrical devices are in an easily accessible location	
Control panels and alarms on exterior and 1 foot above grade	
Building sewer-no angles >45 degrees, 1-10% elevation change in pipe, and cleanout provided	
Additional cleanouts indicated when needed (over 75' and every 100' thereafter)	
29-13	
Pretreatment components have effluent sampling capability after pretreatment	
If depth ≤ 2′, 8″ spacing between inlet and outlet pipe	
If depth >2' but ≤6', 12" spacing between inlet and outlet pipe	
At least 2" elevation difference from inlet to outlet	
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29-14	
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Shutoff mechanism provided		
29-16 If utilized during design		
STS 8' from drain tiles		
Interceptor drain, if used 6' upslope		
Perimeter drain, if used 6' upslope 8' elsewhere		
Perimeter drain at least 8' from mound lateral or 1 ' from toe		
Subsurface drainage 4" in diameter		
Subsurface drainage at least 10" of coarse aggregate		
Subsurface drainage positive slope of 1/10' per 100'		
Engineered drainage shows depth to seasonal water with and without drainage		
Drainage outlet-accessible, rigid wall, animal guard		
Drainage outlet-sufficient freeboard-at least 4" above water level		
Drainage outlet-permission received for discharge point, when applicable		
LEACH		
Surface water diversion addressed, as needed		
Special considerations for slopes greater than 15% needed?		
Unless timed-low pressure, 25% additional infiltrative surface added		
Non-gravel, at least 75% of required infiltrative surface		
If used, only one sizing reduction used (i.e. pretreatment and gravel-less cannot be stacked)		
No partial trenches utilized		
If trench longer than 150', manifold placed in center or pressure utilized		
New installation width maximum of 2' (alterations and replacements up to 3', if needed)		
Minimum trench depth of 2"		
Trench depth coincides with soil report		
Distance between trenches (4' for gravity/3' for LLP)		
Trench media at least 8" thickness		
Geotextile fabric/straw provided and minimum 6" of cover		
Distribution piping extending entire length of trench and minimum 3" diameter		
Pipe holes at least 1/2" in diameter and no more than 40" apart		
No serial distribution		
Availability to rest any one line while maintaining ability to treat entire daily design flow		
If fill material will be utilized, soil meets standard of 29-15 (O) (5) (a) & (b)		