Shelby County Health Department
1600 E. State Road 44, Suite B, Shelbyville, Indiana 46176-1844
317/392-6470 Fax 317/392-6472

New Construction Permitting Procedure
January 8, 2020

410IAC 6-8.3-70 (c)

1. The home and absorption field can not be in the 100-year floodplain (floodway). The field can not be located in areas subject to ponding and areas where surface run-off (drainage) cannot be diverted around the field. Floodway information can be obtained at Planning and Zoning 25 W Polk St, Room 201.

410IAC 6-8.3-56

2. The characteristics of the proposed absorption field soil will be analyzed and described by an ARCPACS certified soil science consultant. The possible locations of the house and septic field must be known so that the soil in the area of the septic field can be tested. It is recommended that you contact your septic installer or the Shelby County Health Department prior to contacting the soil scientist. A current listing of the soil scientist can be obtained at health department.

3. A Soil Evaluation Sheet will be issued by the Shelby County Health Department for the tested areas based upon the soil characteristics and the number of bedroom and bedroom equivalents of the proposed residence.

Shelby County Ordinance No. 1994-14

4. Six (6) **certified engineer/surveyor site plans** must be submitted to Planning and Zoning (25 W. Polk St., Room 201) for review and approval. An onsite meeting with the owner, builder, septic installer and a representative of Shelby County **may** be required prior to issuance of any permits.

5. Upon issuance of the septic permit, **the signer of the septic permit is responsible for protecting the planned septic absorption field site from compaction, scraping and filling.** A barrier must enclose the absorption field to insure that the location is protected from heavy construction equipment. The barrier can be yellow caution tape or fencing.

6. No homes shall be occupied **before** the absorption field has been installed and approved by the Shelby County Health Department.

Department	Contact	Phone
Building, Electrical &Plumbing	Dave Adams	317/392-6480
Health	William Pursley	317/392-6470
Highway	Kim Anderson	317/392-6485
Natural Resources	Scott Gabbard	317/392-1394 #3
Planning and Zoning	Desiree Calderella	317/392-6338
Surveyor	Taylor Summerford	317/392-6481
Waste Water Treatment Plant	Brad Fix	317/392-5131

Revised 5-21-01 Development Classification			Site Plan Requirements-Class 2, 3, & 4 Developments
2	3	4	
X	X	X	1. The Site Plan shall contain the landowner or developer's name and address and the date of the plan's latest revision.
X	X		2. The Site Plan must be drawn and certified by a Registered Engineer or Land Surveyor licensed by the Indiana Professional Licensing Agency and shall be drawn to a scale not the exceed 1 inch = 100 feet.
X	X	X	3. The Site Plan shall include a North arrow.
X	X		4. The Site Plan shall be submitted on 18" x 24" plan sheets.
X	X	X	5. The Site Plan shall contain an area map showing the location of the proposed site and the county roads and streets in the vicinity of the site.
X			6. The watershed area affecting the site shall be shown on the Site Plan.
X	X		7. The Site Plan shall contain a legal description of the land involved.
X	X		8. All elevations used in the Site Plan shall be referenced to USGS datum with a temporary bench mark set on or near the point of construction and expressed in feet above Mean Sea Level (M.S.L.). The proposed and existing topography shall be shown with contour lines at no greater than one-foot intervals. Contour lines should be shown within 100 feet of all areas of disturbed earth.
X			9. The Flood Zone in which the development is located, per the FEMA Flood Insurance Rate Maps, shall be stated on the site plan. All Federal Flood Hazard Areas shall be delineated on the Site Plan with the 100-year flood event elevation line shown on the plan and expressed in feet above Mean Sea Level (M.S.L.).
X		X	10. The Site Plan shall show the location of any proposed individual septic systems and an adequate repair area. It should also include septic tank size; length and cross section of absorption trenches with bottom of trench elevation shown, subsurface drain size and location, and location of dosing chamber if an elevated or pressure system is required.
X	X		11. Location, type, and size of any surface and subsurface drainage outlet for the subject property. An animal guard shall be noted where required.
X	X		12. The finished floor elevations of the basement or crawl space, first floor, and garage of the proposed building(s) shall be shown on the Site Plan.
X	X		13. The Site Plan shall show the locations of existing and proposed driveways, parking and loading areas, right-of-way, set back lines, etc. to be placed on the site.
X	X		14. The Site Plan shall show the location of all existing and proposed easements on the site and on adjoining properties.
X	X		15. The Site Plan shall include the locations of existing and proposed wells.
X			16. The Site Plan shall include the flow line elevation of open ditches and invert elevations of all drainage tiles, sanitary lines, manholes, storm sewer pipes and culverts located on the site or within 300 feet of the subject property.
X	X	X	17. The Site Plan shall include a statement on the plans that all existing subsurface draintiles that are disturbed during construction will be repaired and rerouted to maintain their existing flow.
X			18. The Site Plan shall show the location of the soil test borings.
X	X		19. The Site Plan shall show the elevations of the proposed finished yard grades at the corners of proposed buildings showing a minimum positive slope away from the building of six (6) inches in the first ten (10) feet.
X			20. The Site Plan shall show trees located within the septic field that are 4 inches or larger in diameter; fences; lakes; ponds; surface swales; wetlands; springs; etc.
X	X	X	21. The Site Plan shall show the dimensions of the parcel in feet and the orientation and outside dimensions of the proposed buildings on the site.
X	X		22. All utilities located on the site or in adjacent right-of-way or easement must be shown on the Site Plan, including but not limited to power, telephone, and cable television.
X			23. Drainage calculations for and design drawings of retention/detention basins, lakes, ponds, inflow pipes; outflow structure; etc. showing inflow and outfall pipe invert elevations; acre feet of storage below proposed outfall elevation; normal pool elevation of retention basin, etc. shall be shown on the Site Plan.
X	X		24. The Site Plan shall contain a statement that the plan complies with all State and County regulations and that any changes that may be made to the plan must first be approved by the appropriate agency.
X			25. The Site Plan shall contain a note stating that the contractor shall provide erosion control measures as required in Article 10 of the Shelby County Strom Drainage, Erosion and Sediment Control Ordinances.

Classification Definitions: Class 2- residential, commercial, and industrial developments and any other non-agricultural land disturbing activity that is not defined as a Class 1, 3, or 4. Class 3- residential development in a platted subdivision approved under this ordinance and not served by a septic system. Class 4- residential additions or accessory buildings.

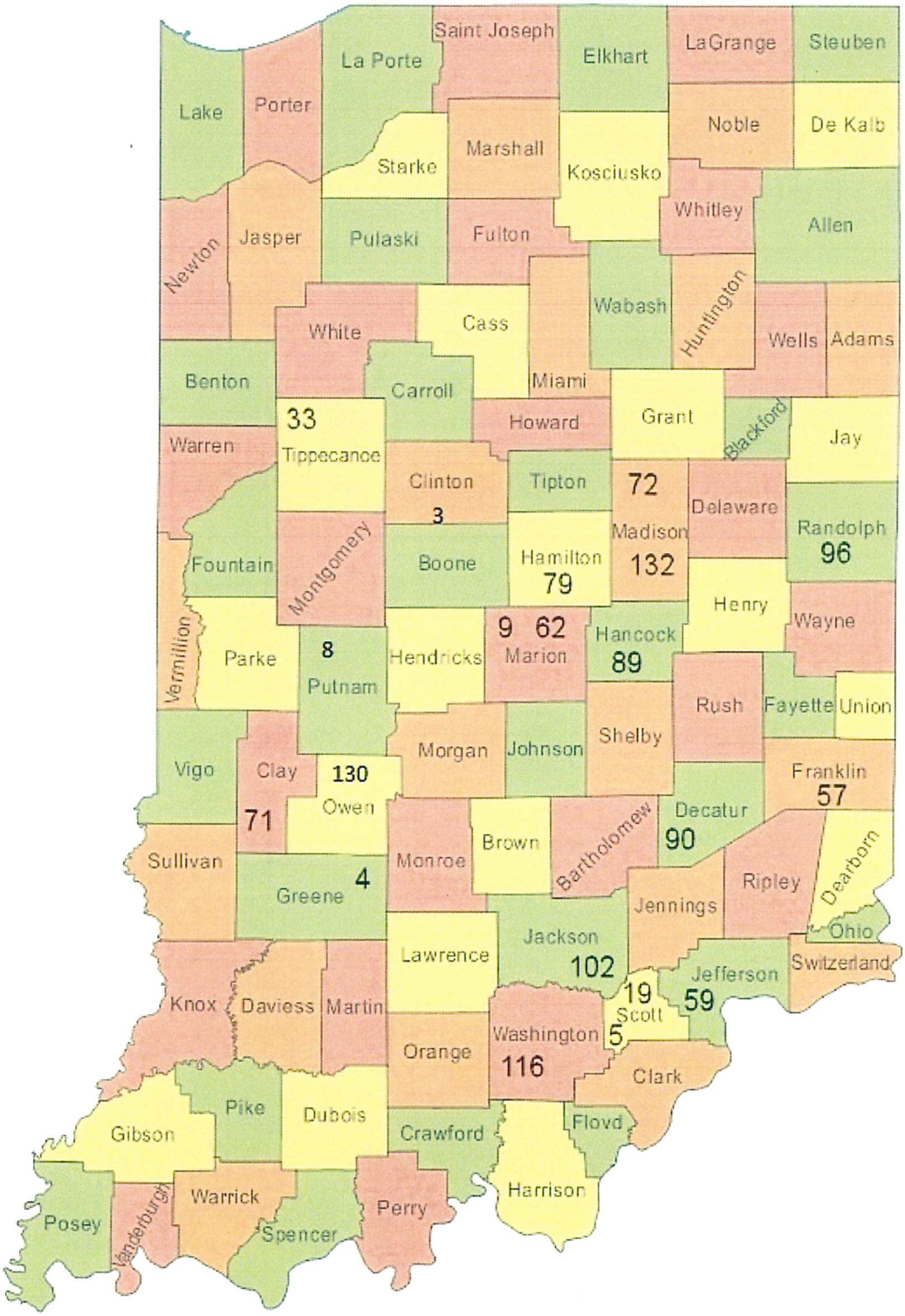
Shelby County Health Department
Local Soil Scientist List

ID #	Name/Company Name	Mailing Address	Phone Number
72	Adams, Thomas F. Adams Environmental Corp.	PO Box 3206 Anderson, IN 46018	(765) 609-7810 (877) 377-4743
132	Adams, Vicki Adams Environmental Corp.	PO Box 3206 Anderson, IN 46018	(877) 377-4743 (765) 609-7810
90	Anderson, Dena L. Glaciers Edge Soil Consulting	6939 S. Majors Rd. Hanover, IN 47234	(812) 591-3770 (812) 525-6433
102	Bowen, John Chestnut Ridge Consulting, Inc.	7208 E CR 100 S Seymour, IN 47272	(812) 521-0995
96	Buckingham, Gregory W. Buckingham C.P.S.S.	419 N. High Street Union City, IN 47390	(765) 964-3323
9	Dixon, Ron L. Natural Resources Consulting, Inc.	7719 Knapp Road Indianapolis, IN 46259	(317) 862-7446
89	Heltsley, Jerry W. Soil Strata, LLC	6162 W Brickell Ln McCordsville, IN 46055	(812) 798-1316 (812) 798-1137
57	Henderson, Gregory L. Soil Consultants	9099 Pipe Creek Road Metamora, IN 47030	(800) 841-4992 (765) 647-1333
3	Hosteter, William D. Hosteter Soil Consulting	2094 E 450 N Frankfort, IN 46041	(765) 258-3397 (877) 335-3348
79	McClain, Mark S. SOILS1 Soil Science Consultants	10740 Cheryl Courts Carmel, IN 46033	(765) 212-7645
4	Mort, Lambda Mort Environmental, LLC	6496 S. Doans Road Bloomfield, IN 47242	(812) 699-2872
59	Nickell, Scott A. Nickell Soil Consulting	6500 N Bacon Ridge Road Madison, IN 47250	(812) 265-5140 (800) 465-2111
5	Robbins, John M. Jr. Soil Services	1903 S. Finley Firehouse Road Scottsburg, IN 47170	(812) 752-7160
8	Shively, Jerold L. Soil 2 Shively	625 Medallion Drive Greencastle, IN 46135	(765) 653-3180
71	Staley, Randy E. Staley's Soil Service, Inc.	71 W CR 650 S Clay City, IN 47841	(812) 939-2752 (800) 773-3250
62	Wigginton, Michael L. Minnehaha Soil Consulting LLC	8425 W 85th Street Indianapolis, IN 46278	(317) 297-8679
130	Willen, Amber A Horizon Above Soil Consulting	2658 Rey Cemetery Road Freedom, IN 47431	(812) 859-6337
19	Williams, Spencer G. Southeastern Environmental Consulting	407 Pine Drive Circle Henryville, IN 47126	(812) 889-3524 (877) 556-1557
33	Ziegler, Thomas Ziegler Soil Consulting, Inc.	42 Canyon Creek Circle Lafayette, IN 47909	(765) 474-3041 (800) 621-4400

It is highly recommended to have your septic system designer (Engineer or Surveyor) and/or your septic installer at the site for the soil test.

ID #'s are shown on map.

Date Printed 1/8/2020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Tippecanoe
Howard
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Blackford
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Madison
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Delaware
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Fountain
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Boone
Hamilton
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Henry
Wayne
Vermillion
Parke
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Putnam
Hendricks
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Marion
Hancock
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Rush
Fayette
Union
Morgan
Johnson
Shelby
Vigo
Clay
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Owen
Franklin
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Decatur
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Sullivan
Greene
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Brown
Bartholomew
Ripley
Dearborn
Jennings
Ohio
Switzerland
Lawrence
Jackson
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Jefferson
59
19
Scott
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Knox
Daviess
Martin
Orange
Washington
116
Clark
Pike
Dubois
Crawford
Floyd
Gibson
Posey
Vanderburgh
Warrick
Spencer
Perry
Harrison

Engineers & Surveyors

Name	Address	City, State & Zip	Phone	Fax
Banning Engineer	698 Tower Rd, Suite 100	Plainfield, IN 46168	(317) 839-2581	
CKW Land Surveying Inc.	301 E Jefferson St	Franklin, IN 46131	(317) 736-0781	(317) 736-0791
Cross County Consulting, LLC	5921 Cadillac Drive	Indianapolis, IN 46224	(317) 563-2210	(317) 487-7730
Crowder & Darnall, Inc.	2760 25th St. Suite 1130	Columbus, IN 47203	(812) 376-3391	
Eric Williams Consulting	747 N. Combs Rd	Greenwood, IN 46143	(317) 474-5250	
H. Gibson Land Surveying	321 N. State St	Greenfield, IN 46140	(317) 462-4055	
Hause Surveying & Engineering	105 N. Meridian St.	Lebanon, IN 46052	(765) 482-5141	
Independent Land Surveying	3640 Commerce Dr	Columbus, IN 47201	(812) 372-0996	(812) 372-0996
KOE Engineering & Surveying, Inc.	70 E. Main St.	Greenwood, IN 46143	(317) 881-1337	(317) 885-6497
Kruse Consulting	7384 Business Center Dr	Avon, IN 46123-5508	(317) 272-5508	(317) 272-2410
Powell's Land Surveying	4634 N 575 East	Shelbyville, IN 46176	(317) 694-6073	(765) 763-0122
Projects Plus	255 Fairview Place, Suite A	Greenwood, IN 46142	(317) 882-5003	
Scott T. Sumerford Land Surveying	3149 N. Riley Hwy	Shelbyville, IN 46176	(317) 401-6050	
Space & Sites, LLC	6 E. Taylor St.	Shelbyville, IN 46176	(317) 392-4444	(317) 392-0709
Taylor Sumerford	1849 E 350 South	Shelbyville, IN 41676	(317) 398-9916	
True North Surveying, LLC	8055 Windham Lake Drive	Indianapolis, IN 46124	(317) 290-1290	

Shelby County Health Department
Septic Installers List

Wednesday, January 8, 2020

* IOWPA Certified	Company Name	Mailing Address	Phone
☐	A & M EXCAVATING	9790 N 100 WEST, FOUNTAINTOWN, IN 46130	(317) 753-6845
☑	A-1 SEPTIC SERV. & EXC., INC	2819 US 31 SOUTH, FRANKLIN, IN 46131	(317) 736-8742
☐	AMERICAN CONTRACTORS, INC	11498 N DIVISION RD, FOUNTAINTOWN, IN 46130	(317) 749-9467
☑	Ash Excavating LLC	792 W 950 North, Fortville, IN 46040	(765) 524-5660
☐	BALDWIN EXCAVATING	6930 N 50 EAST, FORTVILLE, IN 46040	(317) 223-8288
☑	BURDEN CONSTRUCTION	960 S. STONE RD., GREENWOOD, IN 46143	(317) 888-7666
☐	C & HM Excavating	3687 N Co 500 E, Milan, IN 47031	(812) 571-2134
☐	Cales Home Improvement	11913 N Shelby 700 West, New Palestine, IN 46163	(317) 697-9062
☐	CHRISTIAN CONSTRUCTION	318 E Broadway, Shelbyville, IN 46176	(317) 398-7203
☐	Clossey, Josh	4237 E Union Rd, Shelbyville, IN 46176	(317) 417-8608
☐	Coffey Excavating	410 W Pennsylvania St., Shelbyville, IN 46176	(317) 946-3116
☑	DINGMAN & SON EXCAVATING	679 N 775 E, SHELBYVILLE, IN 46176	(317) 512-9188
☐	Edge Construction	PO box 804, Columbus, IN 47202	(812) 371-0067
☐	Fisk Excavating	PO Box 484 271 S Franklin St, Greenfield, IN 46140	(317) 498-7592
☑	G & R Excavating, Inc	1611 West 236th St, Sheridan, IN 46069	(317) 750-1451
☑	GES General Contractors	5433 W State Rd 234, McCordsville, IN 46055	(317) 995-7147
☐	GLACKMAN TRENCHING	4725 W 500 N, FAIRLAND, IN 46126	(317) 512-3928
☐	Glackman, Steven	4624 W 500 North, Fairland, IN 46126	(317) 512-4249
☐	HARD TIMES CONSTRUCTION	6982 N 700 W, FAIRLAND, IN 46126	(317) 835-8465
☐	Helton Construction	PO Box 417, Cloverdale, IN 46120	(317) 439-2710
☐	HILL & SON EXCAVATING	3238 E 1100 SOUTH, FLAT ROCK, IN 47234	(317) 512-5567
☐	J & J EXCAVATING	8752 W 650 South, Edinburgh, IN 46124	(812) 343-3904
☐	JOHNSON, JOHN	5732 E 500 SOUTH, WALDRON, IN 46182	(765) 525-6649
☐	JT's Trenching & Exc.	3170 S Shirley Rd, Shirley, IN 47384	(765) 717-1598
☐	Lanter Excavating	4605 S 375 East, Waldron, IN 46182	(317) 605-3480
☐	LARRY MOHR CONSTRUCTION	1092 W FLAT ROCK RD, FLAT ROCK, IN 47234	(812) 350-5216
☑	LAZER EXCAVATING	1763 THREE STORY HILL RD, MORGANTOWN, IN 4616	(317) 850-8308
☐	M & C EXCAVATING	6222 W 800 North, Fountaintown, IN 46130	(317) 440-1406
☐	MOHR DAINAGE & EXCAVATING	6899 N 200 West, FAIRLAND, IN 46126	(317) 402-3266
☐	MOHR, BRAD	6004 W 300 North, Boggstown, IN 46110	(317) 512-5374
☐	MOHR, JOE ED	6554 W 100 SOUTH, SHELBYVILLE, IN 46176	(317) 402-1413
☐	MOLINE, DAVE	6604 W 1000 North, Fountaintown, IN 46130	(317) 538-2881
☐	NASBY CONSTRUCTION LLC	4922 E. Blue Ridge Rd., Shelbyville, IN 46126	(317) 402-0758
☐	Patton Plumbing	4732 S. 550 East, Franklin, IN 46131	(317) 412-3317
☑	PRIORITY ONE, INC.	691 N 350 WEST, SHELBYVILLE, IN 46176	(317) 392-2900
☑	PRO DIG SEPTICS LLC	4396 N CO RD 200 W, MIDDLETOWN, IN 47356	(765) 524-4755
☐	RICK CONSTRUCTION	2275 E VANDALIA RD, FLAT ROCK, IN 47234	(765) 525-6375
☐	RININGER EXCAVATING	6190 W 330 SOUTH, NEW PALESTINE, IN 46163	(317) 223-1523
☐	ROBERTSON PAVING	2740 W 1200 SOUTH, FLAT ROCK, IN 47234	(812) 587-8675
☑	RODE EXCAVATING	8112 E TROY, INDIANAPOLIS, IN 46239	(317) 357-0383
☐	Schneider Plumbing LLC	428 S CR 350 E, Greensburg, IN 47240	(812) 614-5535
☐	SMOOTH STONE EXCAVATING LLC	5377 W St Rd 252, Edinburgh, IN 461249414	(812) 350-2756
☑	STONE EXCAVATION	9114 STATE ROAD 229, METAMORA, IN 47030	(317) 439-9456
☐	SULLIVAN EXCAVATING	3010 N 850 East, Columbus, IN 47203	(812) 343-2466
☐	SWIFT & SON EXCAVATING INC.	2372 S SUGAR CREEK RD, FRANKLIN, IN 46131	(317) 729-5325
☑	TOM SPIKER EXC. & CONCRETE	4091 W US 52, NEW PALESTINE, IN 46163	(317) 861-6538
☑	WR Johnson Excavating	177 W Division Rd, Franklin, IN 46131	(317) 412-5502
☐	YANTISS EARTHMOVING	PO BOX 244, SHELBYVILLE, IN 46176	(317) 401-1138
☑	ZEILINGA EXCAVATING	1068 N GOOSE RD, CARTHAGE, IN 46115	(765) 561-2463

*** IOWPA Certified - Indiana On-site Waste water Professional Association Certified**

REQUEST FOR FLOODPLAIN ANALYSIS AND REGULATORY ASSESSMENT

State Form 50356 (R2 / 4-12)

INDIANA DEPARTMENT OF NATURAL RESOURCES

NOTE: This is Not an Application for a Permit.

A Floodplain Analysis and Regulatory Assessment (FARA) provides floodplain information and the regulatory flood elevation (RFE) for a tract of land that is often needed for flood insurance purposes or for proposed construction projects. This form should be used for requests such as:

- Flood insurance determinations that are required by a mortgage lender.
- Supporting documentation for elevation certificates or Letter of Map Change requests.
- State permitting requirements for construction in a floodway (construction examples: building, fill, development, land re-grading, excavation, pond, fences, channel work, bank protection, dam, levee, stream crossing, bridge, culvert, etc).
- Elevation and permitting requirements for the construction or reconstruction of a house or placement of a manufactured home in a floodplain.

If you prefer to file your request electronically, you can submit the request through the e-FARA Wizard using the Indiana Floodplain Portal (INFIP) at INFIP.dnr.in.gov

Step 1: Briefly explain the reason you are requesting floodplain or regulatory information

_____

_____

Step 2: Requestor Information *(Required Information, enter your information as the FARA requestor)*

Name _____ Name of Company _____

Mailing Address *(number and street*: _____

City _____ State _____ ZIP code _____

E-mail address _____ Daytime Telephone number _____

Step 3: Property Owner Information *(Required Information, if different from the Requestor Information)*

Name _____ Name of Company _____

Mailing Address *(number and street)* _____

City _____ State _____ ZIP code _____

E-mail address _____ Daytime Telephone number _____

Step 4: Property Location and Description *(Required Information)*

Physical Site Address _____

Nearest City/Town _____ County _____ Nearest Waterbody _____

Additional information about the property *(for example: Lot or parcel #, parcel dimensions, tract location to street intersections)*

_____

_____

Step 5: Provide site location *(Required Information)*

An accurate site location must be submitted. Clearly mark the site or tract of land on a reference map. Examples of maps are: web maps, a USGS topographic map, a subdivision plat map, a property survey or legal description from mortgage survey.

Send completed form and supporting information to:

Department of Natural Resources, Division of Water
402 West Washington Street, Room W264
Indianapolis, IN 46204-2641
E-mail address: water_inquiry@dnr.IN.gov

Contact Technical Services for questions:

Telephone number: (317) 232-4160 Ext. 1
Toll Free telephone number: (877) 928-3755 Ext. 1
Fax number: (317) 233-4579
Website: www.in.gov/dnr/water

Shelby County Health Department
Septic Repair Guidelines

All repairs require a soil test (410 IAC 6-8.3-56 On-site Evaluation) by a certified soil scientist. No septic permits will be issued until a soil report is received and evaluated by our office. The system design will show how the system meets the current state code.

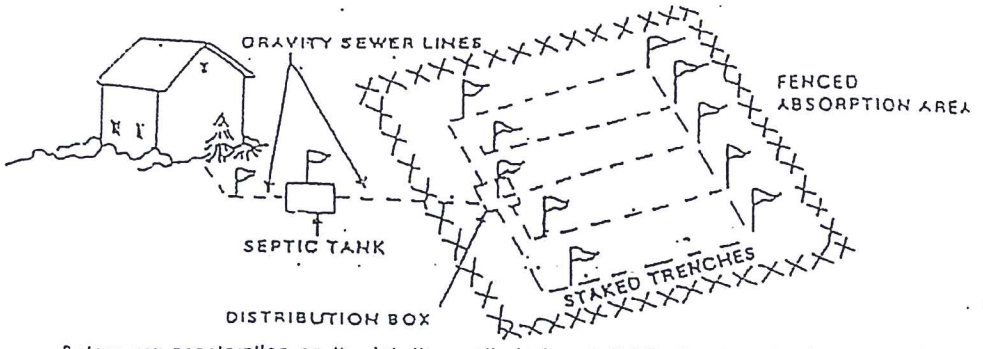
No dry well or retention drums will be accepted as septic systems. Absorption beds will be accepted only when there is limited space available **on repairs.** No absorption field should be constructed in areas where the land surface gradient is greater than 15%. Subsurface drainage is needed for wet soil conditions. A sketch of the septic system must be submitted prior to the issuance of a septic permit. The Sanitarian must be given 48 hours' notice prior to beginning the septic installation.

Any part of the septic system must be: 50 Ft.* from a private water or geothermal well; 100 Ft.* from a Commercial water or geothermal well; 50 Ft.* from any lake or pond; 25 Ft.* from any stream, ditch or roadside ditch; 5 Ft.* from property lines; 10 Ft.* from the perimeter drains; 10 Ft. from the water lines continually under pressure; and 50 Ft. from suction water lines. The septic tank should be at least 10 Ft.* from the dwelling, in ground swimming pool or other structure.
(* Unless otherwise noted.)

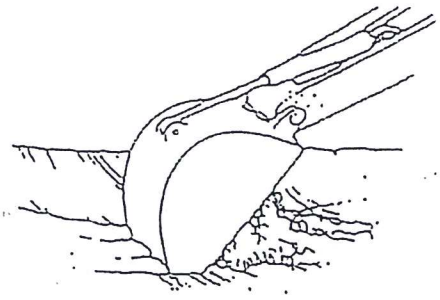
Septic tank and distribution box shall be placed level. A minimum of a 1000 Gal. septic tank is required. The house sewer should slope not less than 4 In. in 25 Ft. Slope of 4 to 8 In. in 25 Ft. are generally recommended. Slopes greater than 3 Ft. in 25 Ft. is undesirable and may result in agitation or mixing of the septic tank contents by the entering sewage. (1 or 2 In. per 6 Ft.). Access manholes at least eight (8) In. in diameter extending to ground surface and fitted with safely secured, gas tight covers shall be provided for each tank. All drain holes must be plugged after the septic tank has been set. A distribution box shall be installed between the septic tank and subsurface absorption system, and **each** absorption line shall be connected directly thereto.

1500 Sq. Ft. of absorption field is required for a 3 bedroom house as a minimum. An additional 500 Sq. Ft. of absorption field per bedroom over 3 is required. Trenches shall be: 3 Ft. wide; 24 In. above limiting layer (glacial till): a minimum of 7 1/2 Ft. apart (center to center); and no greater than 100 Ft. long. The septic pipes and trenches shall be level. Use properly sized **pre-washed gravel or crushed stone** (1 in. - 1 1/2 In.) about 6-8 In. deep below pipe and 2-3 In. above pipe. Holes in the pipe should be located in the 12, 4, and 8 o'clock position. The **piping** system needs to be **checked with a transit for levelness** and proper fall. All ends of fingers should be capped. In order to provide equal distribution in gravity-feed trickle-flow subsurface soil absorption systems, each absorption trench must be individually connected to a distribution box **by at least five (5) Ft. of unperforated pipe** that is laid with a gravel free backfill (dirt). When the distal ends of the absorption trenches are manifolded (tied together) the manifold trench area **shall not count as meeting any of the minimum absorption area required.** Barrier materials used to cover aggregate in an absorption system and perimeter drainage trench must be six (6) In. thick layer of straw, or else geotextile fabric with an effective opening size no smaller than twenty-hundredths (.20) millimeters and no larger than eighty-five hundredths (.85) millimeters. Building paper shall not be used as barrier material.

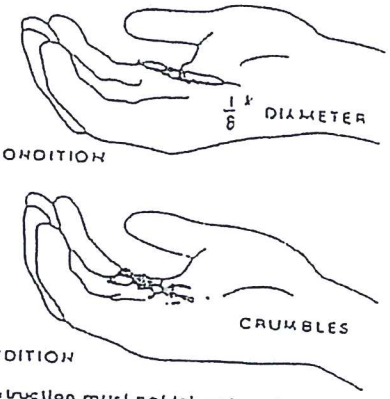
The septic absorption system **shall not** be constructed in clayey soils during periods of wet weather when the soil is sufficiently wet, at the depth of installation, to exceed its plastic limit. This includes those soils classified as sandy loam, silt loam, loam, clay loam, silty clay loam, sandy clay, silty clay, and clay. For the purposes of this rule, the plastic limit of the soil shall be considered to have been exceeded when the soil can be rolled between the palms of the hands to produce threads one-eighth (1/8) In. in diameter without breaking apart and crumbling. Excessive smearing of the usable absorption trench sidewalls or bottom during construction may result in irreversible damage to the soil infiltrative surface and may be grounds for **rejection** of the site and/or the system.



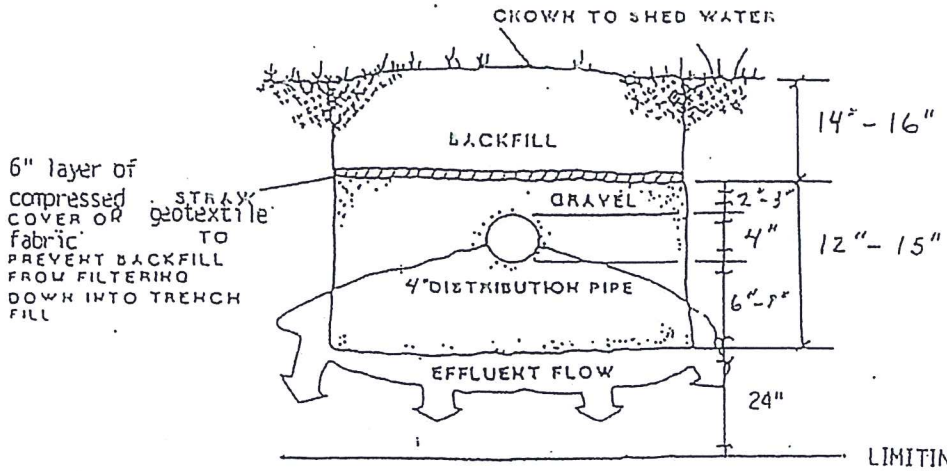
Before any construction on the lot the septic tank and distribution box should be staked and the absorption field should be laid out staked, and fenced.



Keep backhoe bucket perpendicular to trench bottom to minimize compaction.



Construction must not take place if soil is too wet



In an absorption trench, effluent trickles down through the gravel from holes in the distribution pipe and slowly infiltrates into the soil surrounding the trench.