



City of Midland
Midland Health Department
Environmental Section
3303 West Illinois, Space 22
PO Box 4905
Midland, TX 79704
Phone (432) 681-7613
Fax (432) 681-7634

HOW TO OBTAIN A PERMIT FOR AN ON-SITE SEWAGE FACILITY

OSSF Application Fee: As of October 1, 2005 the permitting fee is \$100.00 for each residential permit and \$150.00 for each commercial permit

All fees are non-refundable and shall be paid by business/personal check, cashier's check, money order or cash.

1. Obtain an application from Midland Health Department.
2. Have appropriate individual perform mandatory site/soil evaluation.
3. Have appropriate individual prepare planning materials. Professional design (R.S., P.E.) is required for proprietary and non-standard systems.
4. Submit completed application and technical information sheets (in property owner's name). Include the appropriate fee, and the following:
 - 1) Planning Materials;
 - 2) Site And Soil Evaluation;
 - 3) Accurate Directions To The Site Must Also Be Included;
 - 4) Floodplain Permit Application for Midland County.
5. Plans and application will be reviewed by Midland Health Department staff. Non-standard system plans may be reviewed by TCEQ staff in Austin.
6. Upon approval an Authorization to Construct will be issued. The Authorization to Construct is valid for one year from the date of issuance.
7. Begin construction. An inspection of the installation is required before covering of the system. Contact our office at least **5 working days** in advance to arrange an inspection.

After a successful inspection, a Notice of Approval will be issued by the Midland Health Department OSSF Inspector.

If you cannot install the septic system and meet all of the requirements shown below, **attach a signed variance form.**

MINIMUM SET BACK AND INSTALLATION REQUIREMENTS (IN FEET)

From:	To Tank	To Drainfield	Yes	No
• Private Water Wells (Yours and Neighbors)	50	100	___	___
• Public Water Wells	50	150	___	___
• Water Lines	5	10	___	___
• Property Lines	5	5	___	___
• Streams and Ponds (including dry ones)	50	75	___	___
• Sharp slopes (with tank supported)	0	25	___	___
• Foundations	5	5	___	___
• Easements	1	5	___	___
• Soil Absorption System	5	20	___	___
• Swimming Pools	5	5	___	___
• All excavations are at least 3 feet apart?			___	___
• All excavations are 150 ft. or shorter?			___	___
• Will step downs be installed?			___	___
• All excavations are a maximum 5 feet deep?			___	___

Use the attached sheet to sketch how you intend to install the septic system. You must indicate NORTH on the diagram and include the following:

1. Water well locations, both yours and the neighbors'
2. Proposed and existing structures
3. Fences and Easements
4. Proposed and existing water and service lines
5. Property lines
6. Length of all lines, solid and perforated
7. Existing and abandoned septic systems, cesspools, boreholes
8. Cleanouts: at foundation, at alignment changes, every 50 feet to tank
9. Distance from streams, ponds, lakes, and flood plain if applicable

DRAIN FIELD CALCULATION

ABSORPTIVE AREA (A) = Q/R_a , where Q is the wastewater usage rate in gallons per day, R_a is the soil application rate in gallons per square foot per day.

Rock & Pipe- $A = (L \times W) + 2(L+W) \times 1.0 \text{ ft}$

Gravel-less pipe- $L = A/(W+2)$, determine appropriate drain field sizing, use a drain field width of $W = 2.0$ feet for an eight-inch diameter gravel-less pipe, and an excavation width of $W = 2.5$ for a ten-inch gravel-less pipe.

ET- $A = 1.6 Q/R_{et}$, R_{et} -net local evaporation rate in §285.91(7)TAC Ch 285

Leaching chambers:

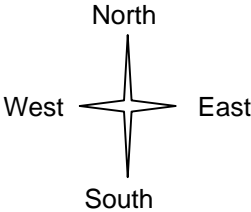
w/o water saving devices $L = 0.6A/(W+2) = \underline{\hspace{1cm}}$ / length of panels = $\underline{\hspace{1cm}}$ # of panels

w water saving devices $L = 0.75A/(W+2) = \underline{\hspace{1cm}}$ / length of panels = $\underline{\hspace{1cm}}$ # of panels

****NOTE: Do not multiply by .6 or .75 if doing a soil substitution****

Show Calculations ****Note: All calculations must be shown from beginning to end****

Diagram Sheet



All portions of the soil absorption field must be level.

It is hereby stipulated and agreed by the undersigned, who is the applicant for such permit, that in consideration of the issuance of such permit, the said applicant will conform with all the provisions of Texas Construction Standard for Private Sewage Facilities, and with all orders that may be made from time to time by the Health Officer, and it is further stipulated and agreed that the Health Officer, or his representative, is granted permission to inspect the premises and system of the undersigned insofar as it pertains to the provisions of Texas Construction Standards for Private Sewage Facilities.

It is further agreed that an inspection by the Midland Health Department must be made before backfill is done, and the permitting fee of \$100.00 for each residential permit or \$150.00 for each commercial permit will accompany this application for permit. This permit shall be valid for a period of one year.

Decisions and inspections relating to the installation of this septic system may be appealed by Administrative Hearing. Details may be obtained by contacting the Environmental Section of the Health Department.

If you are purchasing or refinancing this house, your mortgage company may require a certified water sample. The Health Department Laboratory can test the water sample for you.

X

Signature of Homeowner

No inspection will be scheduled for 24 hours following receipt of application to allow sufficient review time.

Date of approval _____

Approved by Designated OSSF Inspector _____

Installer notified to begin construction by:

Telephone Office Field Date _____

Directions to site address: _____

Return this application to:

Midland Health & Senior Services
Environmental Section
3303 West Illinois, Space 22
Midland, TX 79703

Phone (432) 681-7613
Fax (432) 681-7634
P. O. Box 4905, Midland, TX 79704

Midland Health Department OSSF/Site Evaluation

Date _____

Application Number: _____

Applicant Information:

Site Evaluator Information:

Name: _____

Name: _____

Address: _____

Address: _____

City: _____ State _____ Zip _____

City _____ State _____ Zip _____

Property Location:

Installer Information:

Lot _____ Blk _____ Subdivision _____

Name: _____

Address _____

Registration Number _____

County _____

Address: _____

Unincorporated Area? Yes or No

City _____ State _____ Zip _____

Additional Information _____

Phone Number _____

Schematic of Lot or Tract

Show:

1. Compass North, adjacent streets, property lines, property dimensions, location of buildings, easements, swimming pools, water lines, and other structures where known.
2. Indicate slope or provide contour lines from the structure to the farthest location of the proposed soil absorption or irrigation area.
3. Location of soil borings or dug pits (show location with respect to a known reference point)
4. Location of natural, constructed, or proposed drainage ways, (streams, ponds, lakes, rivers, high tide of salt water bodies) water impoundment areas, cut or fill bank, sharp slopes and breaks. Note presence of 100 year flood zone.
5. Location of existing or proposed wells on site and existing wells on adjacent properties.
6. Lot size: _____ acre

Compass North Site Drawing Scale: 1 inch = 50 feet/or appropriate

Site Evaluator:

Name: _____ Signature _____

Cert.No. _____

Midland Health Department On-Site Wastewater System Checklist

Name of Owner _____ County _____

The following information must be included with the design package for review by the Texas Commission on Environmental Quality (TCEQ). Failure to include or address all of the following items may result in approval delays.

1. SITE EVALUATION: At least two soil borings/backhoe pits shall be taken in opposite ends of the area to be used for soil absorption system, and shall be excavated to a depth of 2 feet BELOW the proposed trench, or to a restrictive horizon whichever is less.

Two copies of the test results and the drawing must be enclosed. The following information shall be included:

- 1) Soil texture analysis. List the texture type:
- 2) Soil structure analysis. List structure type.
- 3) Depth of test. (Soils without at least 24" of suitable soil beneath the proposed drainfield shall be considered unsuitable)
- 4) Restrictive horizon evaluation
- 5) Groundwater evaluation
- 6) Topography
- 7) Flood hazard
- 8) Vegetation
- 9) Easements and bodies of water (lakes, watercourses, etc.) must be identified.
- 10) Location of all buildings (existing or proposed)
- 11) All separation distances identified in Table X must be shown.
- 12) All water wells on this site and neighboring properties.

2. PLANNING MATERIALS: Two copies of the construction drawing must be enclosed and should include the following information:

- 1) A detailed, legible site plan with boundary description (Aerobic systems require scaldrawing, legal description of the lot, an Affidavit to the Public, and Maintenance Agreement to be attached)
- 2) The location of all buildings (existing or proposed) on the site plan.
- 3) The size and location of the wastewater treatment units and disposal area (include width & depth). A cross section of the excavation must be included.
- 4) All water wells on this site and neighboring properties must be identified and located on the site plan.
- 5) Easements and bodies of water (lakes, watercourses, etc.) must also be identified.
- 6) All separation distances identified in Table X must be shown.

Name _____ of _____ Owner _____

Physical _____ Address _____

Name of Site Evaluator _____ Registration Number _____
 Date Performed _____ Proposed Excavation Depth _____

1. At least two soil evaluations must be performed on the site, at opposite ends of the proposed disposal area. Please show the results of each soil evaluation on a separate table. Locations of soil evaluations must be shown on the site drawing.
2. For subsurface disposal, soil evaluations must be performed to a depth of at least 2 feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.
3. Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depths.

Soil Boring Number					
Depth (Feet)	Textural Class	Structure (If applicable)	Drainage Mottles/Water Table	Restrictive Horizon	Comments
-0					
-					
-1					
-					
-2					
-					
-3					
-					
-4					
-					
-5					
-					
-6					
-					
-7					

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

 Signature of Site Evaluator

 Date

OSSF Soil Evaluation Form

Soil Boring Number					
Depth (feet)	Textural Class	Structure (If applicable)	Drainage Mottles/Water Table	Restrictive Horizon	Comments
-0					
-					
-1					
-					
-2					
-					
-3					
-					
-4					
-					
-5					
-					
-6					
-					
-7					

Features of Site Area

- | | | | |
|----|---|---------|--------|
| 1. | Presence of 100 year flood zone | Yes ___ | No ___ |
| 2. | Presence of upper water shed | Yes ___ | No ___ |
| 3. | Presence of adjacent ponds, streams, water impoundments | Yes ___ | No ___ |
| 4. | Existing or proposed water well in nearby area | Yes ___ | No ___ |
| 5. | Organized sewage service available to lot or tract | Yes ___ | No ___ |

Site Evaluator:

Name: _____ Signature: _____ License No: _____

Notice To Midland County Residents Outside Midland City Limits:

A floodplain permit is required for all types of development, new construction, major additions and improvements, mobile home placement, fill placement or changes to ditches and playa lakes.

Midland County is participating in the National Flood Insurance Program so that Midland County residents may obtain flood insurance. In this program, Midland County must enforce some regulations that will minimize flood damage potential in new developments. Therefore, *By Court order, all persons planning development in unincorporated Midland County must first obtain a floodplain permit.* Midland County has chosen the City of Midland Engineering Department to handle floodplain administration. To get a floodplain permit, go to:

Midland City Hall
300 N. Loraine (NE Corner Loraine & Illinois)
Engineering Department (5th Floor)

OR

Fax information on following page to:

Pat O'Donnell,
Engineering Department
(432) 683-1786.

Almost all loans for areas within a 100-year floodplain require flood insurance. For structures not built according to the Midland County floodplain management standards listed on the permits, this insurance may be extremely expensive or even be unavailable. Even for areas outside mapped floodplains, Midland County has adopted sensible requirements that will largely eliminate localized flooding.

For more information, call the City of Midland Engineering Department at 685-7286 and ask for Floodplain Information.

FLOODPLAIN PERMIT FOR AREAS INSIDE THE 100 – YEAR FLOODPLAIN

Permit No _____

Date _____

Property Address _____

The following restrictions apply to construction or other development at this location. Failure to comply with these regulations may result in septic system permit being withheld, great difficulty in obtaining a loan on the property, extremely high flood insurance premiums, or ineligibility for flood insurance.

- If all or part of the property is located within a floodway, no development which would restrict the flow of water is permitted in the floodway. This includes structures, fill, and solid fences, among others. A site plan must be attached to this permit

- For residential structures, the elevation of the lowest floor (including basement) shall be a minimum of _____ feet m.s.l.

- For non-residential structures, the elevation of the lowest floor (including basement) or the elevation of flood proofing, shall be a minimum of _____ feet m.s.l.

- An elevation certificate signed by a registered surveyor or engineer must be provided to the county floodplain administrator. If the property is mortgaged, an elevation certificate will also be needed for insurance purposes.

- If a non-residential structure is flood proofed, a flood proofing certificate signed by a registered surveyor or engineer must be provided to the floodplain administrator.

- The water supply for the development must minimize inflows of flood waters. (For instance, case water wells to above the flood elevation given above and install check valve on inlet.)

- The sanitary sewage system must minimize inflows of flood waters and outflows of sewage into flood waters. (for instance, install check valve on sewer outlet and place septic field lines well away from drainageways.)

- All service facilities (heating, cooling, etc.) should be elevated to above the given above elevation.

- Mobile homes must be securely anchored to resist flotation.

- Comply with Health Department regulations for sewage facilities in a floodplain.

Midland County Floodplain Administrator (or assistant)

Your surveyor should return the completed elevation certificate to Pat O' Donnell, P. O. Box 1152, Midland, TX or fax to Pat O' Donnell at (432) 683-1786.

Instructions:

1. Fax to Pat O'Donnell at 683-1786 or take to Room 510, City Hall, 300 N. Loraine
2. Pat will fax back to Health Department for you when complete.
3. Call Pat at 685-7286 if you have any questions or Planning Office at 685-7400 if plat is needed.

Midland County, Texas

FLOODPLAIN PERMIT APPLICATION

Application No. _____ Date: _____

Property Address _____

Legal Description _____
 (Subdivided) Subdivision Sect. Lot Block

 (Unsubdivided) Include survey name, block and section number, and acreage. Acreage

Other Description _____

Description of Work (check all that apply in first column and one in second column)

This permit is for: <input type="checkbox"/> New Building Construction <input type="checkbox"/> Place Mobile Home <input type="checkbox"/> On-site sewage facility <input type="checkbox"/> Addition to Existing Structure <input type="checkbox"/> Improvements/Repairs to Structure <input type="checkbox"/> Fill Placement <input type="checkbox"/> Change to Channel or Drainageway	Type of Land Use: <input type="checkbox"/> 1-4 Family Residential <input type="checkbox"/> Other Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Other <input type="checkbox"/> Platted Condition () Yes () No () Call 685-7400 By: _____ Planning Division , Date _____
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NOTES: _____

Installer _____ Installer Phone _____

Owner's Name _____

Mailing Address _____

Telephone _____

FLOODPLAIN DETERMINATION (Office Use only)

Based on the best available information, the above property IS / IS NOT located within a special flood hazard area (100-year floodplain) on the effective FIRM. This property IS / IS NOT located within a regulatory floodway on the FIRM. Development of this property must be in accordance with the conditions set forth on the attached permit in order to minimize the chances of flood damage and to meet federal and local regulations.

(Zone _____, Panel _____ Effective Date _____/_____/_____)
