

Terrebonne Wastewater Feasibility Study

Exploring Sewer Solutions for the Community

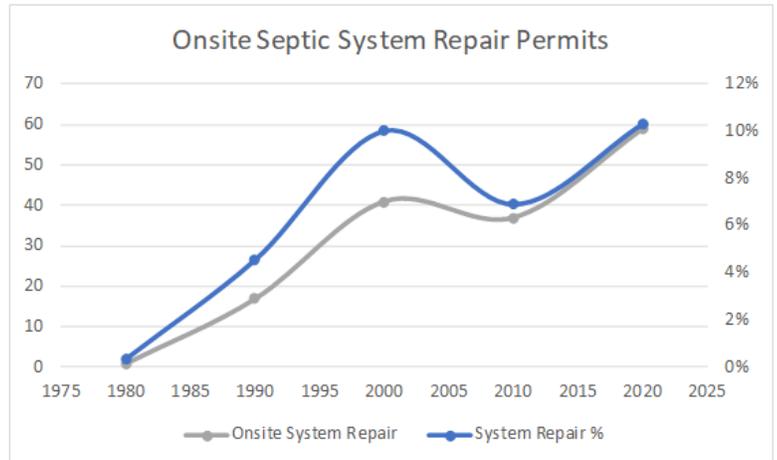


Soil Conditions in Terrebonne

- This region is characterized by shallow soils over bedrock with very low percolation rates.
- To operate effectively, septic drain fields require sufficient soil depth for treatment and good infiltration rates to dispose of effluent.

Trend of system failures

- Many of the septic systems in Terrebonne were installed over 30 years ago and are reaching the end of their life cycles.
- The rate of septic system failures is on the rise as systems age and soil permeability decreases from use.
- The Deschutes County Sanitarian reports a septic repair rate in Terrebonne that is twice that of the rest of Deschutes County.



Risks of system failures to property owners

- Residences and businesses cannot continue to exist if their onsite septic systems fail to meet treatment and disposal requirements.
- Most of the developed lots do not have an adequate reserve area for installation of a replacement system.
- Septic system repairs and replacements typically cost residences \$4k-\$25k, depending on size.
- Septic system repairs and replacements typically cost businesses \$20k-\$150k, but sometimes as much as \$500k or more for larger commercial properties.

Health risks from surfacing effluent and water quality concerns

- Several sites in Terrebonne have had wastewater effluent rise to the ground surface due to drainfield capacity issues. This condition poses serious risks to human and environmental health.
- If untreated wastewater effluent reaches groundwater supplies through existing drill holes, private drinking water wells could become contaminated.

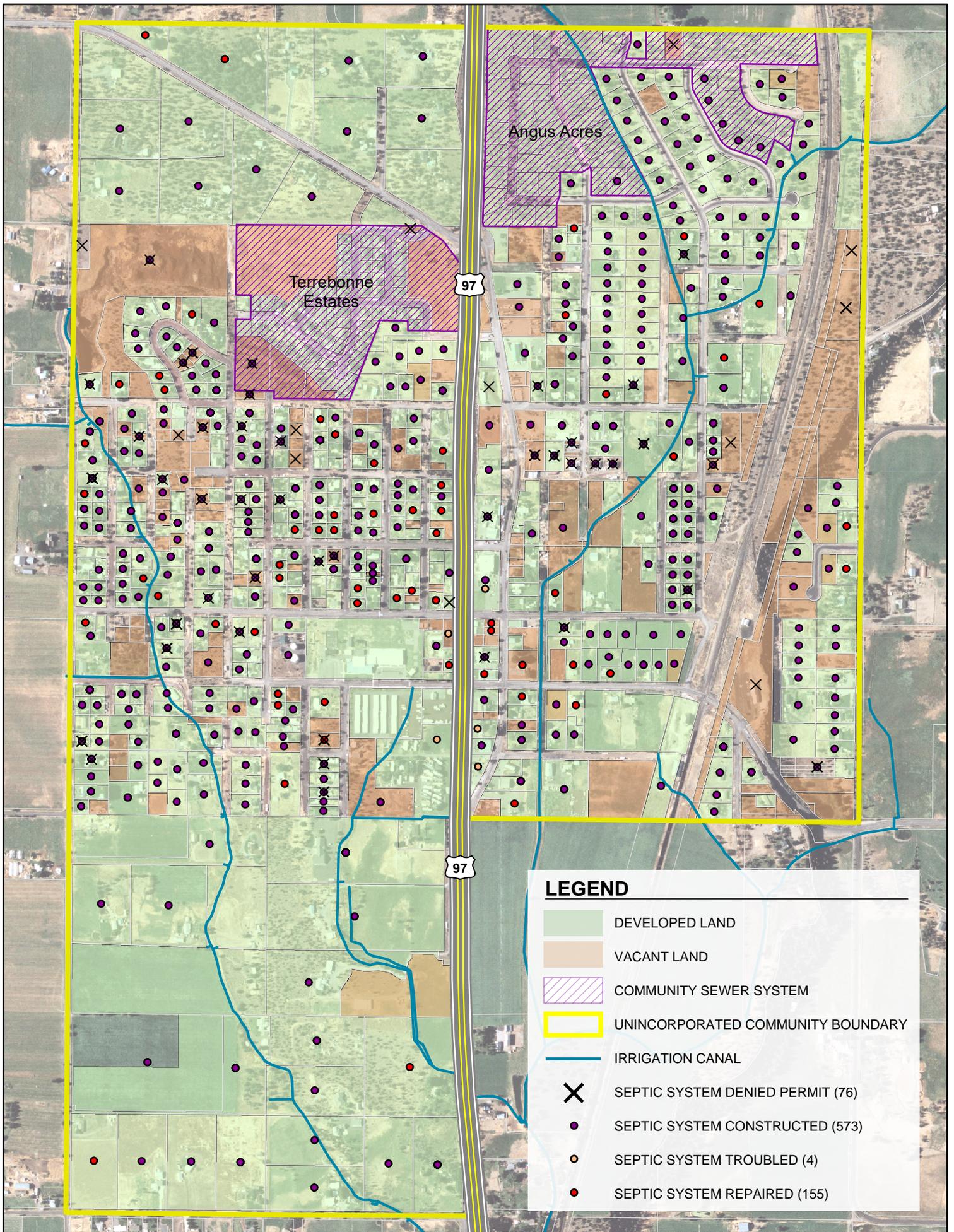
Economic impacts to due to septic system issues and limitations

- The area required for drainfields and reserve areas reduces developable area and excludes high-wastewater businesses (e.g. breweries, hotels).
- Many of the lots in Terrebonne are unbuildable due to inadequate lot size and/or poor soil conditions.
- Septic system issues can lead to temporary or permanent shutdowns for businesses.

Advantages of Onsite Septic vs. Municipal Wastewater Systems

Onsite Septic Systems	Municipal Wastewater System
<ul style="list-style-type: none"> • No monthly utility bill • Lower initial construction costs • Independent onsite system, not related to other properties or entities for operation and maintenance. 	<ul style="list-style-type: none"> • Low/no maintenance required by owner • Allows development on small lots and drainfield reserve areas • Reliable wastewater collection and treatment systems operated by others • Better health and water resource protection

Learn More: Visit webpage at <https://www.deschutes.org/road/page/terrebonne-wastewater-feasibility-study>
 Contact Linda Swearingen at 541-350-6012 or email: lllswear@aol.com



LEGEND

- DEVELOPED LAND
- VACANT LAND
- COMMUNITY SEWER SYSTEM
- UNINCORPORATED COMMUNITY BOUNDARY
- IRRIGATION CANAL
- X SEPTIC SYSTEM DENIED PERMIT (76)
- SEPTIC SYSTEM CONSTRUCTED (573)
- SEPTIC SYSTEM TROUBLED (4)
- SEPTIC SYSTEM REPAIRED (155)