

CHAPTER 147

WATER WELL PROTECTION

147.01 Shallow Well Protection
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147.01 SHALLOW WELL PROTECTION. No structure or facility of the following enumerated and listed types shall be located within the distances hereinafter set forth after each structure or facility from a shallow public well within the City.

1. Well house floor drains — 5 feet;
2. Water treatment plant wastes — 50 feet;
3. Sanitary and industrial discharges — 400 feet;
4. Sanitary and Storm Sewers, Drains:
 - A. Prohibited within 25 feet;
 - B. 25 to 75 feet if water main pipe;
 - C. 75 to 200 feet if sanitary sewer main pipe.
5. Water Plant and Wells:
 - A. Water treatment process – prohibited within 0 to 5 feet;
 - B. Wastes that are treated on site, 5 to 50 feet, prohibited, if sanitary sewer main pipe;
 - C. Well house drains to sewers – 0 to 25 feet prohibited, 25 to 75 feet if water main pipe, 75 to 200 feet if sanitary sewer main pipe;
 - D. Well house floor drains to surface – 0 to 5 feet prohibited, 5 to 50 feet if sanitary sewer main pipe.
6. Force mains:
 - A. None permitted within 75 feet;
 - B. 75 to 400 feet, must be water main materials;
 - C. 400 to 1000 feet if water main or sanitary sewer main pipe
7. Land application of solid waste — 400 feet;
8. Irrigation of wastewater — 400 feet;

9. Concrete vaults and septic tanks — 200 feet;
10. Mechanical wastewater treatment plants — 400 feet;
11. Cesspools and earth pit privies — 400 feet;
12. Soil absorption fields — 400 feet;
13. Lagoons — 1000 feet;
14. Chemicals:
 - A. Application to ground surface — 200 feet;
 - B. Above ground storage — 200 feet;
 - C. On or underground storage — 400 feet;
 - D. Transmission pipelines (such as fertilizer, liquid petroleum, or anhydrous ammonia) — 400 feet.
15. Animal pasturage — 50 feet;
16. Animal enclosure — 400 feet;
17. Animal wastes:
 - A. Land application of solids — 400 feet;
 - B. Land application of liquid or slurry — 400 feet;
 - C. Storage tank — 400 feet;
 - D. Solids stockpile — 400 feet;
 - E. Storage basin or lagoon — 1000 feet;
 - F. Earthen silage storage trench or pit — 200 feet.
18. Earthen silage storage trench or pit — 200 feet;
19. Basements, pits, sumps — 10 feet;
20. Flowing streams or other surface water bodies — 50 feet;
21. Cisterns — 100 feet;
22. Cemeteries — 200 feet;
23. Private wells — 400 feet;
24. Solid waste disposal sites — 1000 feet;
25. Railroads — 200 feet.

147.02 DEEP WELL RESTRICTIONS. No structure or facility of the following enumerated and listed types shall be located within the distances hereinafter set forth from a deep public well within the City.

1. Well house floor drains — 5 feet;
2. Water treatment plant wastes — 50 feet;
3. Sanitary and industrial discharges — 200 feet;
4. Floor drains from pump house to surface:
 - A. None within 5 feet;
 - B. 5 to 10 feet — water main materials enclosed in concrete permitted;
 - C. 10 to 25 feet — must be water main material;
 - D. 25 to 75 feet — must be watertight sewer pipe;
5. Floor drains to sewer, water plant wastes, storm or sanitary sewers or drains:
 - A. None permitted within 25 feet;
 - B. 25 to 75 feet, must be water main material;
 - C. 75 to 200 feet, must be watertight sewer pipe;
6. Force mains:
 - A. None permitted within 75 feet;
 - B. 75 to 200 feet, must be water main materials;
7. Land application of solid waste — 100 feet;
8. Irrigation of wastewater — 100 feet;
9. Concrete vaults and septic tanks — 100 feet;
10. Mechanical wastewater treatment plants — 200 feet;
11. Cesspools and earth pit privies — 200 feet;
12. Soil absorption fields — 200 feet;
13. Lagoons — 200 feet;
14. Chemicals:
 - A. Application to ground surface — 100 feet;
 - B. Above ground storage — 100 feet;
 - C. On or underground storage — 200 feet;

- 15. Animal pasturage — 50 feet;
- 16. Animal enclosure — 100 feet;
- 17. Animal wastes:
 - A. Land application of solids — 100 feet;
 - B. Land application of liquid or slurry — 100 feet;
 - C. Storage tank — 100 feet;
 - D. Solids stockpile — 200 feet;
 - E. Storage basin or lagoon — 200 feet;
- 18. Earthen silage storage trench or pit — 100 feet;
- 19. Basements, pits, sumps — 10 feet;
- 20. Flowing streams or other surface water bodies — 50 feet;
- 21. Cisterns — 50 feet;
- 22. Cemeteries — 200 feet;
- 23. Private wells — 200 feet;
- 24. Solid waste disposal sites — 200 feet.

147.03 APPLICABILITY. Proscriptions as set forth in Sections 147.01 and 147.02 shall apply to all public water wells existing within the City except public water wells formerly abandoned for use by resolution of the Council.

147.04 DESIGNATING AUTHORITY. The City Administrator shall designate each water well within the City as being a “shallow well” or “deep well” for the purposes of this chapter.

147.05 EXISTING STRUCTURES OR FACILITIES. The use of structures or facilities existing at the time of enactment of the ordinance codified in this chapter may be continued even though such use may not conform with the regulations of this chapter. However, such structure or facility may not be enlarged, extended, reconstructed or substituted subsequent to adoption of such ordinance.

EDITOR’S NOTE

Ordinance No. 5243 imposing the regulations contained herein was adopted on August 20, 1979.

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