

CHAPTER 90

WATER WELL PROTECTION

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90.01 PURPOSE. The purpose of this chapter is to restrict the location of potential sources of contamination within close proximity to public waterworks in order to protect the public safety, health and welfare.

90.02 DEFINITIONS. For use in this chapter, the following terms are defined:

1. "Deep public well" means a public well located and constructed in such a manner that there is a continuous layer of low permeability soil or rock at least five (5) feet thick located at least twenty-five (25) feet below the normal ground surface and above the aquifer from which the water is drawn.
2. "Shallow public well" means a public well located and constructed in such a manner that there is not a continuous layer of low permeability soil or rock at least five (5) feet thick located at least twenty-five (25) feet below the normal ground surface and above the aquifer from which the water is drawn.

90.03 DISTANCE REQUIRED FROM SHALLOW PUBLIC WELLS. No structure or facility designated in this section shall be located within the distances hereinafter set forth from a shallow public well:

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 - 200 feet;
8. Irrigation of wastewater - 200 feet;
9. Concrete vaults and septic tanks - 200 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 - 200 feet;
 - B. Above ground storage - 200 feet;
 - C. On or underground storage - 200 feet;
15. Animal pasturage - 50 feet;
16. Animal enclosure - 200 feet;
17. Animal wastes:
 - A. Land application of solids - 200 feet;
 - B. Land application of liquid or slurry - 200 feet;
 - C. Storage tank - 200 feet;
 - D. Solids stockpile - 200 feet;
 - E. Storage basin or lagoon - 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 - 200 feet;
24. Solid waste disposal sites - 200 feet.

90.04 DISTANCE REQUIRED FROM DEEP PUBLIC WELLS. No structure or facility designated in this section shall be located within the distances hereinafter set forth from a deep public well.

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.

90.05 APPLICABILITY. Proscriptions as set forth in Sections 90.03 and 90.04 apply to all public water wells existing within the City except public water wells formerly abandoned for use by resolution of the Council.

90.06 NONCONFORMANCE. The use of structures or facilities existing at the time of enactment of Ordinance No. 85-267 may be continued even though such use may not conform with the regulations of this chapter. However, such structures or facilities may not be enlarged, extended, reconstructed or substituted subsequent to the enactment of such ordinance.