

**CHAPTER 10 (9J-5.011)**

**SANITARY SEWER, SOLID WASTE, STORMWATER MANAGEMENT,  
POTABLE WATER, AND NATURAL GROUNDWATER AQUIFER  
RECHARGE ELEMENT**

**(INFRASTRUCTURE ELEMENT)**

**Section 10.01**        **Purpose:** The purpose of this Chapter (element) is to provide for necessary public facilities and services correlated with the Future Land Use Map (projections) and consistent with the goals, objectives and policies contained in this Ordinance.

**Section 10.02**        **Data and Analysis:** This Chapter (element) is based upon the data and analysis requirements pursuant to 9J-5.011(1)(2), F.A.C., 9J-5.005(2), F.A.C. Reference Sections 5.03, 5.06 and 5.07 of this Ordinance and Chapter 7 of the Foundation Documents.

**Section 10.03**        **Natural Groundwater Aquifer Recharge:** NOT APPLICABLE. There are no identified prime (potable) groundwater aquifer recharge areas within the City (reference Chapter 7, Exhibit A, Foundation Documents).

**Section 10.04**        **Sanitary Sewer Goals, Objectives and Policies:** The Goals, Objectives and Policies for sanitary sewer are as follows:

**Goal 10.A**            The provision of an environmentally safe and efficient wastewater collection, treatment, and disposal system.

**Objective 10.A.1**    Correct existing facility deficiencies, replace obsolete or wornout facilities and maximize the use of existing facilities.

**Policy 10.A.1.1**      Cooperate with Okaloosa County and the City of Niceville in expansion of the Regional Wastewater Treatment Plant.

**Policy 10.A.1.2**      The City shall include LOS standards within its LDC and shall ensure the maintenance of LOS standards through implementation of the Concurrency Management System (reference Chapter 6 of this Ordinance).

**Policy 10.A.1.3**      The LOS standards for sanitary sewer within the City shall be 85 gallons per capita per day (average daily demand) for both collection and treatment.

**Policy 10.A.1.4**      The LDC shall contain detailed methodologies for determining available capacity and the impact upon capacity of any proposed development.

**Policy 10.A.1.5** The City will maintain an infiltration/inflow rate of twenty (20%) percent of average daily flow or better. By 2001 the City will evaluate the sanitary sewer system and identify necessary repairs to achieve this rate. Within one year of completion of this study the Infrastructure Element and the 5-year Schedule of Capital Improvements will be amended to address the needs identified in the study.

**Policy 10.A.1.6** The City will prohibit package treatment plants beginning in 1990. Nothing in this policy shall be interpreted to prohibit pre-treatment facilities when necessary to serve individual businesses or industry (also, see Policy II.B.2-3).

**Policy 10.A.1.7** The City will continue its efforts to provide added capacity and relieve demands on the regional facility referenced in Policy 10.A.1.1.

**Objective 10.A.2** Coordinate extensions of the collection system and increase in capacity of the entire system with the Future Land Use Map and future facility needs upon adoption of this ordinance (reference Section 14.06).

**Policy 10.A.2.1** Extension of collection systems shall be provided by the private sector and consistent with the Future Land Use Map (Figure 7-1) (reference Policy 14.A.4.2).

**Policy 10.A.2.2** Prioritization of the reconstruction or rehabilitation of existing collection lines will be accomplished pursuant to Policy 14.A.1.3 of this Ordinance.

**Policy 10.A.2.3** The City will continue its practice of "pay as you go" growth as it occurs by periodically adjusting sewer impact fees and user fees as necessary (reference Policy 14.A.1.2).

**Section 10.05** **Solid Waste Goals, Objectives and Policies:** The Goals, Objectives and Policies for solid waste are as follows:

**Goal 10.B** An environmentally safe, efficient and cost effective system for the collection and disposal of solid waste.

**Objective 10.B.1** Correct existing facility deficiencies, coordinate the increase in capacity of facilities to meet future needs and maximize the use of existing facilities.

**Policy 10.B.1.1** The City shall continue enforcement of its mandatory Garbage Ordinance (Section 12-1 of the City Code) so that all solid waste generated within the City is properly collected.

**Policy 10.B.1.2** The City shall transport solid waste collected within the City to the disposal facilities provided by Okaloosa County. These facilities include a transfer station in the south end of Okaloosa County. Solid waste from the transfer station will be transported to a regional land-fill outside this area thereby maximizing the life of existing land-fills within Okaloosa County for use by present and future residents.

**Policy 10.B.1.3** Continue to cooperate with the Regional Utility Authority and other units of local government in efforts to develop technologically sound, cost effective and long term solid waste disposal solutions.

**Policy 10.B.1.4** The City shall include LOS standards for solid waste collection within its LDC and shall ensure the maintenance of LOS standards through implementation of the Concurrency Management System (reference Chapter 6 of this Ordinance).

**Policy 10.B.1.5** The LOS standards for solid waste within the City of Valparaiso shall be five (5) pounds per capita per day.

**Policy 10.B.1.6** The City shall continue to participate in the Okaloosa County recycling program so that a reduction in the solid waste stream going to landfills or the transfer station is reduced. Note: The program is designed to remove at least 30% of the solid waste from the waste stream. Significantly, as of the adoption date of this ordinance, the program is experiencing an approximate 75% participation rate.

**Section 10.06** **Storm Water Management Goals, Objectives and Policies:** The Goals, Objectives and Policies for storm water management are as follows:

**Goal 10.C** An environmentally safe and efficient drainage system.

**Objective 10.C.1** Correct existing facility deficiencies and maximize the use and function of existing facilities and natural drainage features.

**Policy 10.C.1.1** The LDC shall contain regulations which will prohibit the issuance of a development permit for projects not meeting the design criteria for correcting existing deficiencies or meeting future storm water management requirements as determined by the City Engineer and in conformance with this Ordinance.

**Policy 10.C.1.2** The City shall continue its practice of correcting localized storm water management problems so that LOS standards are maintained (reference Policy 10.D.2.3).

**Policy 10.C.1.3** The City shall require the use of swale drainage on new roadways to the maximum extent possible. Perforated pipe shall be used in situations where piping is necessary (also see Policy 11.A.2.2).

**Policy 10.C.1.4** The City shall continue its periodic inspection program of stormwater control structures to insure the proper functioning of such structures.

**Policy 10.C.1.5** The LDC shall contain the City's Zoning Ordinance and the City's Stormwater Management Ordinance which provide for the maximum use of natural drainage features in all new development or redevelopment plans.

**Objective 10.C.2** Provide stormwater management facilities concurrent with demand created by future development upon adoption of the LDC (reference Policy 7.A.1.1 and Chapter 6 of this Ordinance).

**Policy 10.C.2.1** Installation of stormwater management facilities made necessary by new development shall be the responsibility of the developer (reference Policy 14.A.4.2).

**Policy 10.C.2.2** The LDC shall contain LOS standards for stormwater management (reference Policy 7.A.1.1).

**Policy 10.C.2.3** The LOS standard for stormwater management shall be:

- a. Retain the first one inch of run-off on-site;
- b. Post development run-off shall not exceed the pre development run-off rate for a 25 year storm event, up to and including an event with 24-hour duration.

Note: The LDC shall include design and performance standards Pursuant to Section 17-25.025, F.A.C. and Chapter 17-3.051, F.A.C.

**Section 10.07** **Potable Water Goals, Objectives and Policies:** The Goals, Objectives and Policies for potable water are as follows:

**Goal 10.D** An environmentally safe and efficient system for provision of potable water.

**Objective 10.D.1** Continually correct facility deficiencies, replace obsolete or wornout facilities and maximize the use of existing facilities upon adoption of this Ordinance.

**Policy 10.D.1.1** The City shall include LOS standards within its LDC and shall insure the maintenance of LOS standards through implementation of the Concurrency Management System (reference Chapter 6).

**Policy 10.D.1.2** The LOS standards for potable water within the City shall be 126 gallons per capita per day.

**Objective 10.D.2** Provide potable water facilities concurrent with demand (reference Chapter 6) upon adoption of this LDC (reference Policy 7.A.1.1).

**Policy 10.D.2.1** Cost for potable water facilities will be funded by user fees, special assessments or other devices determined appropriate by the City.

**Policy 10.D.2.2** Cost for water line extensions made necessary by new development shall be funded in total by the developer (reference Policy 14.A.4.2).

**Objective 10.D.3** Continually conserve potable water resources.

**Policy 10.D.3.1** Continue to cooperate with the Regional Utility Authority for water supply planning and financing alternatives.

**Policy 10.D.3.2** The LDC shall include a Water Saving Devices Ordinance.

**Policy 10.D.3.3** An area of water resources concern has been established by the Northwest Florida Water Management District to protect the area's water resources from depletion, saltwater intrusion or man induced contamination, or from any other activity which may substantially affect the quality or quantity of the area's water resources. Within the area the NFWMD has established lower permit thresholds, management (maximum) and minimum levels, and stipulates any limiting conditions as necessary to monitor, manage, and control the use of water. The City of Valparaiso shall cooperate with the NFWMD in its establishment of any areas of water resources concerns which may impact the corporate limits of the City of Valparaiso.

**Policy 10.D.3.4** The City shall include within the LDC appropriate regulations to assist in the enforcement of the regulations which accompany the declaration referenced in Policy 10.D.3.3 above. Specifically, the LDC shall include relevant portions of Section 40A-2.801, et. seq. of the Florida Administrative Code in order to provide for regulatory provisions to protect the quality and quantity of groundwater serving the City.

**Objective 10.D.4** The City shall continue to maximize the use of existing potable water facilities so as to discourage urban sprawl by implementing policies 10.D.4.1 and 10.D.4.2 among others.

**Policy 10.D.4.1** The LDC shall contain requirements which provide for the mandatory connection to the potable water system and require all new development or redevelopment to be connected to the system.

**Policy 10.D.4.2** All costs for distribution system expansions, if any, caused by new development or redevelopment shall be the responsibility of the development. Note: The entire City is served with a potable water distribution system. However, if upgrades to the system are caused by new development or the redevelopment of existing facilities the development or redevelopment will be responsible for paying all costs associated with the upgraded City system.

**Section 10.08** **Natural Groundwater Aquifer Recharge Goals Objectives and Policies:**

The goals, objectives and policies for the natural groundwater aquifer recharge (sand and gravel aquifer) subelement are as follows:

**Goal 10.E** Provide for the recharge of the sand and gravel aquifer from rainfall. Note: The Floridan Aquifer is not recharged within the City (reference Exhibit 7A, Chapter Seven, Foundation Document). The sand and gravel aquifer is not used for potable water purposes.

**Objective 10.E.1** The LDC shall include regulations which protect the function of the sand and gravel aquifer and the recharge potential for such aquifer. The regulations shall be developed pursuant to Policies 10.E.1.1 and 10.E.1.2, among others.

**Policy 10.E.1.1** The LDC shall include regulations which insure the continuation of adequate open spaces within the City so that rainfall may reach the sand and gravel aquifer through percolation.

**Policy 10.E.1.2** The LDC shall include provisions pursuant to Policies 7.A.1.2(a)(b)(d)(e)(f)(g)(h), 7.A.2.2, 7.A.3.4, 7.A.4.1, 7.A.4.2, 7.A.4.3, 7.A.5.1, 7.A.6.4, 7.A.8.1, 7.A.8.3, 8.A.5.1, 9.A.2.4, 9.A.2.5, 9.A.3.2, 10.A.1.1, 10.A.1-5, 10.A.1.6, 10.B.1.2, 10.C.1.1, 10.C.1.2, 10.C.1.3, 10.C.1.4, 10.C.2.3, 10.D.3.2, 10.D.3.3, 10.D.3.4, 11.A.1.1, 11.A.1.2, 11.A.1.5, 11.A.1.7, 11.A.2.1, 11.A.2.2, 11.A.4.1, 11.A.5.3, 11.A.9.1, 11.A.9.3, 11.B.2.1, 11.B.2.2, 11.B.2.3, 11.B.3.1, 11.B.3.3, 12.A.1.1, 12.A.1.2, 12.A.1.3, 12.A.1.4, 12.A.1.5, 12.A.1.6, 12.A.3.5 among others.