# **CITY OF TAMARAC**

# INTEROFFICE MEMORANDUM (09- 01-009M) COMMUNITY DEVELOPMENT DEPARTMENT

TO: Jeffrey L. Miller, DATE: January 14, 2009

**City Manager** 

FROM: Jennifer K. Bramley, RE: 10 Year Water Supply Facilities

Director of Community Plan and Text Amendments to

Development the Capital Improvements,

Intergovernmental Coordination, Conservation and Infrastructure Elements - Case No. 24-MI-08

Temp Ord No. 2171

Recommendation: The Director of Community Development recommends that the City Commission approve First Reading of the proposed text amendments to the Capital Improvements, Intergovernmental Coordination, Conservation and Infrastructure Elements, adopt the 10 Year Water Supply Facilities Plan and authorize staff to transmit the 10 Year Water Supply Facilities Plan and the proposed amendments to the Department of Community Affairs

<u>Issue:</u> The City of Tamarac is required to adopt a 10 Year Water Supply Facilities Plan and incorporate the plan into the Comprehensive Plan as necessary.

Background: South Florida has historically relied on the easily accessed fresh water of the Biscayne Aquifer to supply potable water. In 2006, the South Florida Water Management District (SFWMD) prohibited potable water utilities from increasing their withdrawals of Biscayne Aquifer water to meet increasing demand for water, even as many utilities were in the midst of water plant expansions designed specifically to treat water from the Biscayne Aquifer. The SFWMD action came about from concern that the integrity of the Biscayne Aquifer is in jeopardy from salt water intrusion caused by overuse of the aquifer. As a result, utilities all across South Florida have been scrambling to find other sources of water and implement conservation programs to meet current and future needs.

The actions of the South Florida Water Management District are in step with actions of the state legislature to force a stronger connection between water suppliers and local government comprehensive plans. The legislature accomplished this chiefly through amendments to Florida Statutes that require all local governments and potable water suppliers to prepare a ten-year water supply facilities plan, and to adopt implementing comprehensive plan amendments.

## Comprehensive Plan Text Amendments

Staff is proposing to amend four elements of the Comprehensive Plan in order to satisfy statutory requirements. The proposed revisions and additions are formalities that ensure proper intergovernmental coordination, encourage water conservation and incorporate the 10 Year Water Supply Facilities Work Plan into the policies of the Comprehensive Plan. The proposed changes are attached as Exhibit "A".

City Manager Comprehensive Plan Amendment Temp Ord No. 2171 – Case No. 24-MI-08 January 20, 2009 – Page 2

# The 10 Year Water Supply Facilities Work Plan

Tamarac's 10 Year Water Supply Facilities Work Plan, in keeping with the South Florida Water Management District Lower East Coast Water Supply Plan, reviews water supply in light of current and future demand for all service providers in the City of Tamarac. The plan, prepared by Eckler Engineering and reviewed by the Utilities Department, concludes that "the City of Tamarac Utilities Department will have adequate potable water supply facilities to support projected demands throughout its service area". The plan reports the same for the other service providers for portions of Tamarac, Broward County Water and Wastewater Services and the City of Fort Lauderdale Water Services. The plan is attached as Exhibit "B".

<u>Summary:</u> In keeping with statutory requirements, the City of Tamarac and other potable service providers to Tamarac's residents and businesses have established that adequate potable water facilities exist to meet current and future demand. Staff is recommending that the City Commission formally adopt the 10 Year Water Supply Facilities Work Plan and associated amendments which incorporate the document into the Comprehensive Plan.

Jennifer K. Bramley, Director of Community Development

ATTACHMENTS: Temporary Ordinance No. 2171

Exhibit 'A" – Infrastructure Element Conservation Element

Intergovernmental Coordination Element

Capital Improvements Element

Exhibit "B" – 10 Year Water Supply Facilities Work Plan

JKB/alg

#### ORDINANCE NO. 2009 -

AN ORDINANCE OF THE CITY OF TAMARAC. FLORIDA, AMENDING, THE CAPITAL IMPROVEMENTS ELEMENT, INTERGOVERNMENTAL COORDINATION ELEMENT, **INFRASTRUCTURE** ELEMENT AND CONSERVATION ELEMENT OF THE CITY OF TAMARAC'S COMPREHENSIVE PLAN CONSISTENT WITH THE CITY'S TEN-YEAR WATER SUPPLY **FACILITIES** PLAN; **AUTHORIZING** TRANSMITTAL OF THE 10 YEAR WATER SUPPLY FACILITIES PLAN AND COMPREHENSIVE PLAN AMENDMENTS TO THE **DEPARTMENT** OF COMMUNITY AFFAIRS AND OTHER AGENCIES AS REQUIRED BY RULE 9J-11, F.A.C; (CASE NO. 24-MI-(80 **PROVIDING** FOR **INCLUSION** THE IN COMPREHENSIVE PLAN; PROVIDING FOR CONFLICT: PROVIDING FOR SEVERABILITY: AND. PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Section 163.3177, F.S. requires that every local government that is subject to a regional water supply plan prepare a local water supply facilities plan and revise its Infrastructure Element within 18 months of the updated regional water supply plan approval; and

WHEREAS, Section 163.3177, F.S. requires that every local government that is subject to a regional water supply plan revise its five year schedule of capital improvements to include any water supply, reuse, and conservation projects and programs to be implemented during the five year period; and

WHEREAS, Section 163.3177, F.S. requires that every local government that is subject to a regional water supply plan revise its Conservation Element to the extent necessary to maintain internal consistency; and

WHEREAS, Section 163.3177, F.S. requires that every local government that is subject to a regional water supply plan revise its Intergovernmental Coordination Element to ensure coordination of the comprehensive plan with applicable regional water supply plans and regional water supply authority plans; and

WHEREAS, the City Commission finds it appropriate to amend the text of the Capital Improvements Element of the City of Tamarac Comprehensive Plan for the purpose of internal consistency with the water supply policies being incorporated in other elements of the plan.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISISON OF THE CITY OF TAMARAC, FLORIDA:

SECTION 1: That the foregoing "WHEREAS" clauses are hereby ratified and confirmed as being true and correct and are hereby made a specific part of this Ordinance. All exhibits attached hereto and referenced herein are hereby incorporated by this reference.

SECTION 2: That the City of Tamarac 10 Year Water Supply Facilities Plan, attached as Exhibit "A" is hereby approved.

SECTION 3: That the City of Tamarac's Comprehensive Plan is hereby amended to incorporate water supply policies consistent with the Tamarac's 10 Year Water Supply Facilities Plan into the Capital Improvements, Intergovernmental Coordination Element, infrastructure element and Capital Improvements Element, as shown in Exhibit "B" attached hereto.

SECTION 4: That the Director of Community Development is further authorized and directed to make the necessary textual changes to the City's certified Land Use Plan in order to reflect the above-stated changes.

SECTION 5: All Ordinances or parts of Ordinances, and all Resolutions or parts of Resolutions in conflict herewith are hereby repealed to the extent of such conflict.

SECTION 6: If any provision of this Ordinance or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of this Ordinance that can be given affect without the invalid provision or application, and to this end the provisions of this Ordinance are declared to be severable.

SECTION 7: This Ordinance shall become effective immediately upon the expiration of a twenty-one (21) day appeal period subsequent to the publishing of a Notice of Intent to find in compliance by the State of Florida Department of Community Affairs (DCA).

Temp Ord. No. 2171 January 20, 2009 Page 4

PASSED, FIRST READING this	day of	, 2009.
PASSED, SECOND READING this	day of	, 2009.
	BETH FLANSBAUM-TALA MAYOR	ABISCO
ATTEST:		
MARION SWENSON, CMC CITY CLERK		
I HEREBY CERTIFY that I have approved this ORDINANCE as to form.		
SAMUEL S. GOREN CITY ATTORNEY		

# 10-Year Water Supply Facilities Work Plan

# City Of Tamarac Florida



Prepared By:
Eckler Engineering, Inc.
May 2008

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#### 1.1 Introduction

This work plan will generally follow the information for local government Comprehensive Plans outlined in Appendix B of the South Florida Water Management District Lower East Coast Water Supply Plan. This is outlined under paragraph B of Appendix B which is the 10-Year Water Supply Facilities Work Plan and other potable water sub-element revisions.

The Lower East Coast Water Supply Plan was adopted in 2006 in conjunction with the State Legislature's expansion on the requirements of the Local Government Comprehensive Plans to include the development of a 10-Year Water Supply Work plan (Chapter 163, Florida Statutes) for coordination of water suppliers within the service area. The planned development is required by all local governments with responsibility for all or a portion of their water supply facilities, located in an area where a regional water supply plan, in our case the Lower East Coast Water Supply Plan, has been developed by the Water Management District. The City of Tamarac's water utility is located within the Lower East Coast Water Supply Planning area and is responsible for insuring adequate water supply development to its retail customers, namely local businesses and residences.

#### 1.1.1 General

Potable water facilities are structures designed to obtain, treat, and distribute potable water to the customers of the municipality. These facilities include raw water supply wells, raw water mains, treatment plants, storage facilities, pumping and metering facilities, distribution mains, and customer meters. The City of Tamarac has adequate facilities in most of these areas to support projected demands for the 10-Year Water Supply planning period. These facilities are adequate to provide water which meets all applicable water quality standards.

The City of Tamarac has three water utilities meeting the needs of the residents. These are:

- City of Tamarac Utility Department (TUD).
- Broward County Water and Wastewater Services District 1(BCWWS).
- City of Fort Lauderdale Water Services (FTLWS).

The City of Tamarac Utility Department is an enterprise fund within the City of Tamarac municipal government. BCWWS only serves several small portions of the City of Tamarac. The City cannot plan or budget for the infrastructure improvements for BCWWS. In addition, the City of Fort Lauderdale wholesales water to a portion of Tamarac. Again, the City cannot plan or budget for the infrastructure improvements for the City of Fort Lauderdale Water Services.

The Broward County Water and Wastewater Services serves the residents of the City of Tamarac in a small area north of NW 58<sup>th</sup> Street, south of Bailey Road, east of Rock Island Road, and west of State Road 7. Broward County Water Wastewater Services also serves the commercially zoned areas within the City of Tamarac along Commercial Boulevard between S.R. 441 and NW 31<sup>st</sup> Avenue. The City of Fort Lauderdale supplies the eastern

portion of Tamarac east of NW 31<sup>st</sup> Avenue within the City limits of Tamarac. The City of Tamarac Utility Department serves the remainder of the City of Tamarac. The City of Tamarac also serves a small development located in the City of North Lauderdale. The development is called the Courtyards and is located just east of SW 81<sup>st</sup> Avenue between McNab Road and Bailey road. The Courtyards Development contains 288 units split into several buildings. Figure 1-1 is a map showing the boundary of the City of Tamarac with a breakdown of the service areas within it.

# 1.2 Existing Facilities

## 1.2.1 City of Tamarac Utility Department

The City of Tamarac Utility Department has a current Water Use Permit for 7.54 million gallons per day. After February 12, 2009, the allowable withdrawal will change to 7.19 million gallons per day. The current Water Use Permit number is 06-00071-W and expires in 2024. The City of Tamarac has one water treatment plant with a design capacity of 20 million gallons per day. Treatment of the raw water consists of lime softening, filtration, disinfection, storage, fluoridation, and pumping to the distribution system. The water treatment plant currently withdraws water from the Biscayne Aquifer with future plans to withdraw from the Floridan Aquifer. The water distribution system within the service area is in good condition and well maintained.

#### 1.2.2 Broward County Water and Wastewater Services - District 1

The Broward County Water and Wastewater Services - District 1's Water Use Permit is currently in the process of being renewed. At this time, it is expected that District 1 will receive a permit for 13.83 million gallons per day. District 1 has one water treatment plant with a design capacity of 16 million gallons per day. Treatment of the raw water consists of lime softening, filtration, disinfection, storage, and pumping to the distribution system. The water treatment plant currently withdraws water from the Biscayne Aquifer with future plans to withdraw from the Floridan Aquifer. The current Water Use Permit number is 06-00146. The water distribution system within the City limits of Tamarac's service area is in good condition and well maintained.

## 1.2.3 City of Fort Lauderdale Water Services

The City of Fort Lauderdale Water Services is currently in the process of renewing their Water Use Permit. The permit number is 06-00123-W. At this time it is not known exactly what the allowable withdrawal will be. Their existing facilities are adequate to meet existing demands.

#### 2.1 Water Demands

Water demands for utilities serving the City of Tamarac have been established by taking the historical average day per capita demand and multiplying it by the projected population within the utilities' service area. Table 2-1 outlines the population projections within the City limits of Tamarac. The projections have been separated into the different utility service areas. The City of Tamarac purchases water from the City of Fort Lauderdale to serve their eastern service area, but owns and maintains their own distribution system.

Table 2-1
Population Served Within the Limits of the City of Tamarac

	2008	2010	2015	2018	2020	2025
Western Service Area (Served by the City of Tamarac) (113 gpcd)	56,062	56,780	59,173	60,443	61,289	63,132
Eastern Service Area (Water Wholesaled to Tamarac by Ft. Lauderdale) (73 gpcd)	2,347	2,347	2,347	2,347	2,347	2,347
Broward County Service Area (Served by Broward County) (131 gpcd)	1,467	1,467	1,467	1,467	1,467	1,467
Total Population of Tamarac	59,876	60,594	62,987	64,257	65,103	66,946

For planning purposes the per capita water production within the City of Tamarac Utility Departments service area is 113 gallons per person per day (gpcd). The per capita water production within the Eastern Service Area is 73 gpcd. Both of these per capita water production rates were determined by analyzing historically water use data and historical populations.

The average per capita water production within the Broward County Water and Wastewater Services - District 1 is set at 131 gpcd. This is assumed to be constant throughout the service area. This includes the portion of Tamarac that is served by Broward County.

These water demands indicate that the per capita usage for each of the utilities is well below the largest usage of 150 gallons per day set by the South Florida Water Management District. Tables 2-2 shows the projected water supply demands that correspond to the population projections. The water supply demand shown in Table 2-2 was determined by multiplying the population times the per capita usage for the given area. The values shown in the table are shown in million gallons per day.

Table 2-2
Water Supply Demands Within the Limits of the City of Tamarac

	2008	2010	2015	2018	2020	2025
Western Service Area (Served by the City of Tamarac) (113 gpcd) (MGD)	6.335	6.416	6.687	6.830	6.926	7.134
Eastern Service Area (Water sold to Tamarac by Ft. Lauderdale) (73 gpcd) (MGD)	0.171	0.171	0.171	0.171	0.171	0.171
Broward County Service Area (Served by Broward County) (131 gpcd) (MGD)	0.192	0.192	0.192	0.192	0.192	0.192
Total (MGD)	6.698	6.779	7.050	7.193	7.289	7.497

The City of Tamarac also serves a 288 unit development located in the City of North Lauderdale. The density of this development is assumed to be 1.5 people per unit with a total population of 432 people. This development is fully built out with a maximum density, therefore, the population is assumed to remain constant. This is outlined in Table 2-3.

Table 2-3
The City of North Lauderdale Served by the City of Tamarac

	2008	2010	2015	2018	2020	2025
Population	432	432	432	432	432	432
Water Supply Demand (MGD)	0.033	0.033	0.033	0.033	0.033	0.033

The total population and water demand for the City of Tamarac Utility Department is displayed in Table 2-4. According to this table the City of Tamarac will come close to exceeding their raw water withdrawal allocation by 2015. Any additional raw water withdrawals, are planned to come from the Floridan Aquifer.

Table 2-4
Total Population and Water Supply Demands by the City of Tamarac

	2008	2010	2015	2018	2020	2025
Total Population of the City of Tamarac Service Area	56,494	57,212	59,605	60,875	61,721	63,564
Total Water Supply Demand (MGD)	6.368	6.449	6.719	6.863	6.958	7.167

Currently, all of the water for the City of Tamarac Utility Department is pumped from the Biscayne Aquifer. Due to restrictions from the South Florida Water Management District, any withdrawals above 7.19 million gallons per day will come from the Floridan Aquifer. These combined withdrawals will be sufficient to supply water to the residents of the City of Tamarac through 2025. The City of Fort Lauderdale is also planning to develop a Floridan wellfield and reverse osmosis water treatment plants to meet future demands through 2025. Broward County is split into three water service districts. Broward County District 1 is the entity which serves portions of the City of

Tamarac. Broward County District 1 is also proposing to withdraw water from the Florida Aquifer and treat it with reverse osmosis.	

#### **SECTION 3 - WATER SUPPLY PROJECT IDENTIFICATION AND SELECTION**

# 3.1 City of Tamarac Utility Department

The City of Tamarac Utility Department has a current Water Use Permit which will expire in February 2024. The current average daily allocation is 7.54 MGD, however, after February 12, 2009, this will change to 7.19 MGD. Tamarac currently withdraws water from only the Biscayne Aquifer.

The Lower East Coast Water Supply Plan that was prepared by the South Florida Water Management District has proposed an alternative water supply project for the City of Tamarac Utility Department. The project is to construct a 2.00 MGD Floridan wellfield and reverse osmosis water treatment plant. The alternative water supply project that was outlined in the Lower East Coast Water Supply Plan is shown in Table 3-1. Table 3-1 also outlines the other utility projects that are required through 2018.

Table 3-1
City of Tamarac Water Supply Projects Through 2013

PROJECTS	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	TOTAL
Rehab of West 8 MG Accellator (UT08A)	20,000	0	0	0	0	0	20,000
Hurricane Shutters & Resist Windows WTP (UT08C)	100,000	0	0	0	0	0	100,000
Water System Master Plan-Study (UW08A)	250,000	0	0	0	0	0	250,000
Rehabilitation/Recondition of WTP (UT08B)	110,000	0	0	0	0	0	110,000
University Drive Water Main Upgrade (UW07A)	100,000	500,000	500,000	0	0	0	1,100,000
WTP Well Upgrade Project (UT06A)	60,000	80,000	80,000	0	0	0	220,000
Chemical Treatment of WTP Filters	0	35,000	35,000	35,000	35,000	35,000	175,000
WTP Renewal/Replacement	0	75,000	75,000	75,000	75,000	75,000	375,000
Irrigation Replacement	0	60,000	60,000	60,000	60,000	60,000	300,000
Main Street Infrastructure Improvements (GP05B)	763,200	215,000	0	0	0	0	978,200
Tamarac West System Rehabilitation (UGMY2)	120,000	240,000	240,000	240,000	240,000	240,000	1,320,000
Clearwell Project at WTP	0	100,000	900,000	0	0	0	1,000,000
Relocate Backyard Water Mains - Tamarac East	0	0	0	500,000	500,000	0	1,000,000
2 MGD Reverse Osmosis Water Treatment Facility	0	0	0	750,000	4,000,000	10,000,000	14,750,000
Filter Backwash Water Recovery	0	0		200,000	2,000,000	0	2,200,000
Emergency Generator Replacement & Fuel at WTP	0	0	0	950,000	0	0	950,000
Shaker Village Water System Upgrade	0	0	0	630,000	930,000	0	1,560,000
Rehab Above-Ground Diesel Tank at Grants Storage	0	0	0	0	60,000	0	60,000
Lime Sludge Concentration Project	0	0	0	0	200,000	2,000,000	2,200,000
MIEX at Pretreatment System (Study)	0	0	0	0	0	100,000	100,000
Rehab of West 8 MG Accelator	0	0	0	0	0	250,000	250,000
TOTAL UTILITIES FUNDS	1,523,200	1,305,000	1,890,000	3,440,000	8,100,000	12,760,000	29,018,200

# 3.2 Broward County Water and Wastewater Services

The Broward County Water and Wastewater Services - District 1 is currently renewing their Water Use Permit which will more than likely expire in 2028. The expected average daily allocation is 13.90 MGD. District 1 currently withdraws water from the Biscayne Aquifer. The alternative water supply project that was outlined in the Lower East Coast Water Supply Plan is shown in Table 3-2. This project is to construct a Floridan wellfield and reverse osmosis water treatment plant.

Table 3-2
Broward County Water and Wastewater Services
Alternative Water Supply Development Projects Summary

Project Summary								
Projects	Alt.	Total Cap.	Total Design Capacity		ıcity			
	source	Costs	2010	2015	2020	2025		
Two Floridan Wells and Treatment Systems	Brackish	\$30,000,000	0.00	2.50	5.00	5.00		

# 3.3 City of Fort Lauderdale Water Services

The City of Fort Lauder Water Services is currently in the process of renewing their Water Use permit. Fort Lauderdale Water Services currently withdraws water from the Biscayne Aquifer. The City will, more than likely, be required to implement alternative water supply projects as a condition of their permit.

There are several alternative water supply projects that have been outlined in the Lower East Coast Water Supply Plan. These projects were proposed by Fort Lauderdale Water Services. The projects are outlined in Table 3-3. The projects include constructing two (2) new water treatment plants which will withdraw water from the Floridan Aquifer and treat with reverse osmosis.

Table 3-3
City of Fort Lauderdale Water Services
Alternative Water Supply Development Projects Summary

Project Summary								
Projects	Alt.	Total Cap.	· · ·		city			
	source Costs		2010	2015	2020	2025		
Dixie Floridan Water Supply/Treatment Facility	Brackish	\$22,885,000	0.00	4.50	7.50	7.50		
Prospect Floridan Water Supply/Treatment Facility	Brackish	\$220,696,000	0.00	27.75	30.00	30.00		

#### 4.1 City of Tamarac

Between the existing facilities and the proposed facilities outlined in this work plan, the City of Tamarac has adequate potable water supply facilities to support projected demands for the 10-Year Water Supply planning period. These facilities are adequate to provide water which meets all applicable water quality standards.

The City of Tamarac has three water utilities meeting the needs of the residents. These are:

- City of Tamarac Utility Department.
- Broward County Water and Wastewater Services District 1.
- City of Fort Lauderdale Water Services.

#### 4.1.1 City of Tamarac Utility Department

The City of Tamarac Utility Department has a total of over \$29,000,000 in water supply projects through 2018. With the existing system in conjunction with these projects, the City of Tamarac Utility Department will have adequate potable water supply facilities to support projected demands throughout its service area. This includes the City of Tamarac portion of its service area. The City of Tamarac Utility Department Water Use Permit will expire in 2024. Alternative water supply projects will be required in order to continue to meet the demands and stay within the constraints of the permit.

#### 4.1.2 Broward County Water and Wastewater Services - District 1

The Broward County Water and Wastewater Services - District 1 has a total of over \$30,000,000 in alternative water supply projects through 2025. With the existing system in conjunction with these projects, the Broward County Water and Wastewater Services - District 1 will have adequate potable water supply facilities to support projected demands throughout its service area. This includes the City of Tamarac portion of its service area. The Broward County Water and Wastewater Services - District 1 Water Use Permit is currently being renewed, but will more than likely expire in 2028. Alternative water supply projects will be required in order to continue to meet the demands and stay within the constraints of the permit.

#### 4.1.3 City of Fort Lauderdale Water Services

The City of Fort Lauderdale Water Services has a total of over \$243,000,000 in water supply projects through 2025. With the existing system in conjunction with these projects, the City of Fort Lauderdale Water Services will have adequate potable water supply facilities to support projected demands throughout its service area. This includes the City of Tamarac portion of its service area. The City of Fort Lauderdale Water Use Permit is in the process of being renewed. Alternative water supply projects will be required in order to continue to meet the demands and stay within the constraints of the permit.

# City of Tamarac Service Area Boundaries



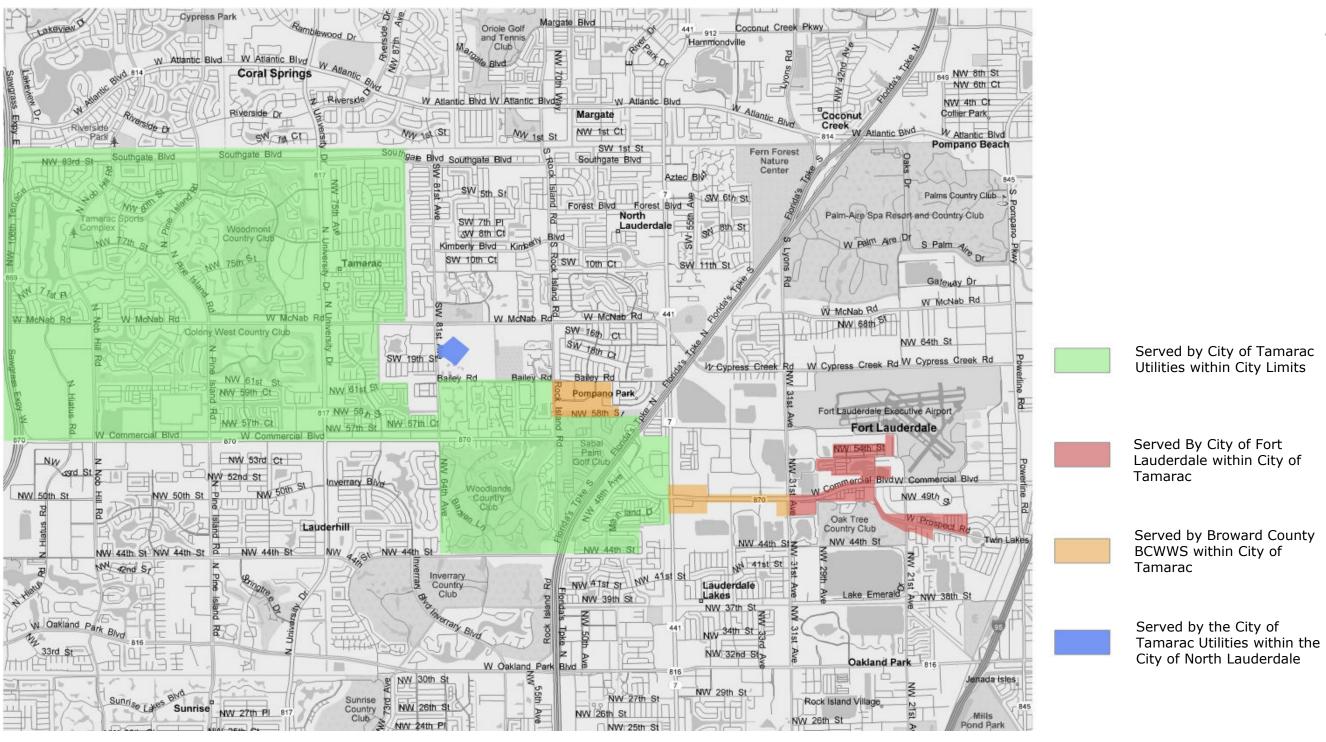




Figure 1-1 City of Tamarac Utility Service Areas

# VIII. CAPITAL IMPROVEMENTS ELEMENT

# **GOAL**

The City of Tamarac shall provide, or cause to be provided, the infrastructure necessary to provide for the health, welfare, and safety of its residents. The City will correct existing deficiencies and maintain needed public facilities and provide or require the provision of facilities concurrent with the impact of development.

# Objective 1

The City will use the Capital Improvement Element (CIE) as the means to establish needs and to develop programs for essential public improvements. Funds will be provided for capital improvements as outlined in the other elements of the comprehensive plan. Capital improvements will be directed toward correcting existing deficiencies, maintenance of all existing facilities, and to provide for future growth.

- Objective can be evaluated in terms of its implementing policies.
- Policy 1.1 The City of Tamarac shall revise and adopt annually a Capital Improvement Program (CIP) that addresses the existing and projected deficiencies as outlined in the Capital Improvement Element and those items listed in the five-year schedule of improvements.
- Policy 1.2 The City of Tamarac shall update its Capital Improvement Element (CIE) on an annual basis after the adoption of the Capital Improvement Program and submit the CIE to the State Planning Agency, DCA, annually as a Comprehensive Plan Amendment.
- Policy 1.3 The City of Tamarac shall identify those projects in the other plan elements which will maintain or expand facilities. These projects shall be included in the five-year Schedule of Improvements and incorporated into the annual Capital Budget.
- Policy 1.4 The City shall continue using the Needs Assessment Committee composed of the Director of Public Works, Financial Services, <u>Utilities</u> and Community Development which shall prioritize projects for the CIE, those projects in the five-year Schedule of Improvements, and the annual proposed capital budget.
- **Policy 1.5** The City shall adopt annually a Capital Budget which shall include at a minimum the first year Improvements of the CIE.

- **Policy 1.6** Proposed Capital Improvements shall be evaluated and ranked in priority according to the following guidelines:
  - 1. Does the project contribute to or further the achievements of specific objectives contained in Elements of the Comprehensive Plan?
  - 2. Does the project eliminate possible hazards and protect the public health, safety, and welfare of the City's residents, provide the necessary infrastructure as part of a legal requirement or prior commitment, and use, to the fullest extent, existing facilities?
  - 3. Will the project eliminate or correct existing deficiencies, increase capacity of existing facilities, or reduce the necessity for or cost of future improvements or provide for future needs?
  - 4. Will the project provide services to developed areas lacking services, or be a logical extension or expansion of facilities or services within designated service areas?
  - 5. Will or can funds be available for the project? Can operating and maintenance costs associated with the improvement be provided from the annual operating budget?

# Objective 2

Future development shall be responsible for bearing a proportionate fair share of the cost for improvements in order to maintain adopted Level of Service (LOS) standards.

- The balance of development revenues collected versus the cost of improvements.
- **Policy 2.1** The City of Tamarac shall continue its policy of collecting impact fees from future development for traffic, recreation, open space, drainage retention, water, and sewers.
- Policy 2.2 The City of Tamarac shall continue its policy of mandatory dedications or fees in lieu of dedications as a condition of plat or site plan approval for recreation open sites and development of recreation facilities for residential developments.
- Policy 2.3 The City of Tamarac shall continue to require the dedication, deeding by separate instrument or grant of easement or necessary rights-of-way for

public streets as shown on the Broward County Trafficways Plan and in the Transportation Element of the Tamarac Comprehensive Plan.

Policy 2.4 The City shall conduct an impact fee rate study by the year 2009 to ensure that new development and redevelopment pays its fair share of capital improvements needed to serve the development/redevelopment.

# **Objective 3**

The City of Tamarac shall exercise sound fiscal management to ensure that needed capital improvements are provided for existing and future development.

- Evaluated at the time of creating the five year capital improvements plan and schedule of capital improvements needed to maintain LOS standards.
- Policy 3.1 Section 7.16 of the City Charter states, "The City shall have full power and authority to issue municipal bonds or to borrow funds for municipal purposes to the extent authorized by and subject to the limitations provided in the Constitution of the State of Florida, the Municipal Home Rule Law, other statutes and this Charter; provided further that bonds intended for the funding or refunding of an acquisition or construction of a capital project shall not be issued until such project and such issuance has been approved by a majority of the qualified electors voting on the issue at a special or general election."
- Policy 3.2 The Financial Services Director recommends that the City maintain a debt burden, defined as debt service payments, of less than fifteen percent (15 %) of combined operating and debt service expenditures.
- **Policy 3.3** The City shall adopt as part of its annual budget, a schedule for the depreciation and periodic replacement of capital facilities from current revenues.
- Policy 3.4 The City Manager shall submit to the City Commission an updated fiveyear Capital Improvement Program annually. The capital program shall include a summary of its contents and a list of all capital improvements which are proposed for the next five (5) fiscal years with appropriate detailed information. Whenever so requested by the Commission or otherwise required, the manager shall make recommendations for revisions of the program.
- Policy 3.5 The City of Tamarac shall require to be installed or install, all needed public facilities for development prior to the issuance of a Certificate of Occupancy. "Development orders shall be issued by the City in

accordance with the adopted concurrency management system and with 163.3202(2)(g) F.S.

# Objective 4

Development orders and permits shall be issued only when it is demonstrated by the applicant that the land development proposal conforms with the development requirements of this Comprehensive Plan, with land development regulations, and that sufficient public facilities or service capacity to support such development will exist at the time a building permit is issued for the project.

# Monitoring and Evaluation:

• Monitored through the City's Concurrency Management System and permit review process.

# **Policy 4.1** The City of Tamarac shall use the following LOS standards in reviewing impacts of development upon public facilities:

#### SANITARY SEWER

- Western Service Area (Broward County Wastewater Treatment Facilities)
   124 gallons per capita per day.
- Eastern Service Area (Fort Lauderdale Wastewater Treatment Facilities)
   131 gallons per capita per day.

#### 2. SOLID WASTE

- Broward County Disposal Facilities (BIC Landfill and Resource Recovery Facility)
   8.9 pounds per capita per day.
- Tamarac Collection (Contractual Service Providers)
   All solid waste collection provided by City contracted service providers.

#### DRAINAGE - CANALS

FEMA criteria for minimum floor elevation and protection of floodplains;

Standards as established by the Broward County Department of Natural Resources Protection, South Florida Water Management District, Broward County Water Management Division, and the City of Tamarac for off-site discharge, on-site retention, and best management practices for pollutant discharge; and

Ten (10) year storm will produce a headwater no higher than four (4) inches above the lowest catchbasin rim in parking lots or two (2) inches below the edge of pavement in subdivisions.

#### 4. POTABLE WATER

- Western Service Area (Tamarac Water Treatment Plant)
   125- 113 gallons per capita per day.
- Eastern Service Area (Fort Lauderdale Water Treatment Plants)
   80-73 gallons per capita per day.
- BCU Service Area (Broward County Water Treatment Plants)
   131 gallons per capita per day

#### TRANSPORTATION

The City of Tamarac shall uphold the following Level of Service Standards consistent with Broward County's Transit Oriented Concurrency System:

In areas of Tamarac within the North Central Transit Concurrency District, the level of service is as follows:

- Achieve headways of 30 minutes or less on 90 percent of routes.
- Establish at least one neighborhood transit center

In areas of Tamarac within the Central Transit Concurrency District, the level of service is as follows:

- Achieve headways of 30 minutes or less on 80 percent of routes.
- o Establish at least one neighborhood transit center.

In all areas of Tamarac, the level of service is as follows:

- Increase the number of bus shelters by 30 percent, and maintain the maximum service volumes on arterial roadways within each District, as displayed below:
  - Two-lane arterials: 2,555

Four-lane arterials: 5,442
Six-lane arterials: 8,190
Eight-lane arterials: 10,605

The City of Tamarac shall maintain the following Level of Service Standards in addition to Broward County's Transit Oriented Concurrency System:

- o Florida Turnpike LOS "D" two-way peak hour
- Sawgrass Expressway LOS "D" two-way peak hour
- o County collector roadways, LOS "D" two-way peak hour
- o City collector roadways, LOS "D" two-way peak hour
- o City local roadways, LOS "C" two-way peak hour

#### 6. RECREATION AND OPEN SPACE

Public parks, recreation, and open space shall be provided at a LOS of 3.0 acres/ per 1,000 population.

Private parks, recreation, and open space shall be provided at a LOS of 3.5 acres per 1,000 population; exclusive of stormwater management areas; up to fifteen percent of this may be met by golf course land.

- Policy 4.2 The City of Tamarac shall ensure adequate facility capacity is available or will be available when needed prior to the issuance of a development order. Developments orders shall be issued by the City in accordance with the adopted concurrency management system and with 163.3202(2)(g), F.S. To do so, the City may approve a proposal, reject a proposal, or require that a development be phased in accordance with availability of specific facilities or services as provided in this element.
- **Policy 4.3** Requests for development permit or Land Use Plan amendments shall be reviewed to examine what affect upon the public facilities the request shall have per the following criteria:
  - 1. Whether the proposal is consistent with, supports, or contributes to the achievement of the goals and objectives in this plan.
  - 2. Whether it affects any existing condition of a public facility as outlined in the Transportation Element, Recreation and Open Space Element, and Sanitary Sewer, Solid Waste, Drainage, Potable Water, and Natural Ground Water Recharge Sub-Elements.

- 3. Can the plan amendment or proposed development be provided with the necessary public facilities that are planned in the five-year schedule of improvements.
- 4. Whether the proposal conforms to the Future Land Use Map of the Future Land Use Element.
- 5. Whether the plan amendment or development is in conformity with county, state agencies, water management district's plans, and those of other regulatory agencies with management or regulatory authority.

Development orders shall be issued by the City in accordance with the adopted concurrency management system and with 163.3202(2)(g), F.S.

- Policy 4.4 The Public Works, Utilities and Community Development Departments will continue to monitor and improve the established criteria the City employs to evaluate capital improvement projects to accommodate new development and redevelopment needs. These criteria will be used by the City during its annual capital budgeting process.
- Policy 4.5 The Public Works and Utilities Departments will continue to maintain and improve the adopted LOS standards for potable water as guided by the City's 10-Year Water Supply Facilities Work Plan and other relevant jurisdictions.
- Policy 4.6 The City will maintain its water supply system through improvements to water facilities as needed when identified in the Capital Improvements Program.

## Policy 4.5

## Policy 4.7

The Financial Services Director will review all proposals for capital projects and make a recommendation to the City Manager concerning the City's ability to finance such proposals. The recommendation shall include a review of the following:

- 1. Ability to use impact fees.
- 2. Ability to use an existing revenue stream.
- 3. Assessment of likelihood of getting a bond approved by Tamarac voters.
- 4. Availability of grant funds.

# Policy 4.6 Policy 4.8

During the planning period, the City shall use the following criteria for the consideration of the plans of state agencies and the South Florida Water Management District during the City's evaluation of capital improvement projects." These criteria include the following:

- 1. Project is needed by the city;
- 2. Project is funded by appropriate agency; and
- 3. City has funds available to meet any required local match.

# Policy 4.7 Policy 4.9

Public facilities to serve developments for which development orders were issued prior to the adoption of the Tamarac Comprehensive Plan, provided those development orders meet all provisions of the Land Development regulations, shall be available. The Concurrency Management System, as identified in the Tamarac Code of Ordinances, already provides for facilities monitoring and development permit monitoring which will ensure availability as required during the planning period.

# Policy 4.8 Policy 4.10

City of Tamarac traffic impact fees shall only be used for city streets. Since Broward County collects regional traffic impact fees (for the County road system) the city shall not collect fees for those same roads. Any state roads in Tamarac are covered by the regional road system and not eligible for city impact fees.

# Objective 5

The City, in collaboration with the School Board, Broward County and non-exempt municipalities shall ensure that public school facilities are available for current and future students consistent with available financial resources and the adopted LOS.

- School enrollment projections compared to the School District's Adopted Five-Year District Educational Facilities Plan, as adopted by reference into the Capital Improvement Element.
- **Policy 5.1** Consistent with policies and procedures within the ILA, the DEFP shall contain a 5-year financially feasible schedule of capital improvements to address existing deficiencies and achieve and maintain the adopted LOS in all CSAs.

- **Policy 5.2** The uniform, district-wide LOS shall be 110% of the permanent FISH capacity for each public elementary, middle, and high school.
- **Policy 5.3** The adopted LOS shall be applied consistently by Broward County, the municipalities and the School Board, district-wide to all schools of the same type.

# Objective 6

To formally adopt the capital improvement plans/schedules of all governmental agencies which schedule and fund improvements needed to maintain City-adopted level of service standards.

- Periodic review of all interlocal agreements and related capital improvements work plans to ensure that they are current.
- Policy 6.1 The City of Tamarac hereby adopts by reference the Broward County School Board's District Education Facilities Plan FY 2007-2008 to 2011-2012, adopted by the School Board on August 1, 2007.
- Policy 6.2 The City of Tamarac hereby adopts by reference the Transportation Improvement Plan 2007-2011 formally adopted by the Broward County Metropolitan Planning Organization on July 12, 2007.
- Policy 6.3 The City of Tamarac hereby adopts the City of Tamarac's 2007-2011 Capital Improvements Program as originally adopted on September 26, 2007.
- Policy 6.4 The City hereby adopts by reference the Ft. Lauderdale Water Supply Facilities Work Plan, 2008.
- Policy 6.5 The City hereby adopts by reference the Broward County 10-Year Water Supply Facilities Work Plan, 2007.

# CITY OF TAMARAC 2007-2011 CAPITAL IMPROVEMENTS PROGRAM (as adopted on September 26, 2007)

DEPARTMENT	REQUEST	FY2007	FY2008	FY2009	FY2010	FY2011	TOTAL
Community Development	Main Street Infrastructure Improvements	\$511,700	\$0	\$0	\$0	\$0	\$511,700
Community Development	·	\$80,000	\$93,400	\$0	\$0	\$0	\$173,400
Total Community Development		\$591,700	\$93,400	\$0	\$0	\$0	\$685,100
Information Technology	Replacement of Obsolete Computer Equipment	\$130.000	\$85.000	\$100.000	\$130.000	\$85.000	\$530.000
Total Information Technology		\$130,000	\$85,000	\$100,000	\$130,000	\$85,000	\$530,000
Public Works	Vehicle Replacement Program	\$561,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,761,000
Public Works	Equipment Replacement Program	\$235.000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,035,000
Public Works	HVAC R&R Program	\$100,000	\$95,000	\$95,000	\$75,000	\$75,000	\$440,000
Public Works	Roofing Systems R&R	\$170,000	\$160,000	\$160,000	\$160,000	\$100,000	\$750,000
Public Works	Sidewalk Repair & Maintenance	\$310,000	\$50,000	\$50,000	\$50,000	\$50,000	\$510,000
Public Works	Traffic Calming	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
Public Works	Street Pavement Overlay R&R	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
Public Works	Fire Alarm & Sprinkler System	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Total Public Works	The Alaim & Opinical Oystem	\$1,651,000		\$1,080,000			\$5,871,000
TOTAL GENERAL FUND		\$2,372,700	\$1,258,400	\$1,180,000	\$1,190,000	\$1,085,000	\$7,086,100
Fire Rescue	Apparatus Replacement Program	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$1,625,000
TOTAL FIRE RESCUE PROGRAM	Л	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$1,625,000
Public Works		\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
Public Works		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Community Development		\$80,000	\$93,400	\$0	\$0	\$0	\$173,400
Community Development		\$511,700	\$0	\$0	\$0	\$0	\$511,700
TOTAL PUBLIC WORKS STORM	WATER FUND	\$766,700	\$268,400	\$175,000	\$175,000	\$175,000	\$1,560,100
Utilities & CIAC	12" Force Main, 82nd St & University	\$400,000	\$0	\$0	\$0	\$0	\$400,000
Utilities R & R	Water Treatment Plant Well Upgrade	\$80,000	\$80,000	\$80,000	\$80,000	\$0	\$320,000
Utilities R & R	Clearwell Structural Rehabilitation at WTP	\$440,000	\$0	\$0	\$0	\$0	\$440,000
Utilities R & R	Filter Media Replacement	\$500,000	\$0	\$0	\$0	\$0	\$500,000
Utilities R & R	Sewer Main Rehabilitation I&I	\$500,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,700,000
Utilities R & R	East Master WW Pumping Station Rehab	\$250,000	\$0	\$0	\$0	\$0	\$250,000
Utilities R & R	Tamarac West System Rehab	\$240,000	\$240,000	\$240,000	\$240,000	\$240,000	\$1,200,000
Utilities R & R	Upgrade of WW Pump Stations 43 & 53	\$75,000	\$0	\$0	\$0	\$0	\$75,000
Utilities & CIAC	University Drive Water Main Upgrade	\$100,000	\$500,000	\$500,000	\$0	\$0	\$1,100,000
Utilities R & R	Rehabilitation of Lime Slakers at WTP	\$165,000	\$0	4000,000	Ų.	\$0	\$165,000
Utilities R & R	Replace Hurricane Shutters & Windows at WTP	\$0	\$100,000			\$0	\$100,000
Utilities R & R	Rehab/Recondition Water Treatment Facility	\$0	\$400,000			\$0	\$400,000
Utilities R & R	Upgrade of WW Pump Stations 11/18B/39	\$0	\$200,000			\$0	\$200,000
Utilities R & R	Upgrade of WW Pump Stations 2E/6/30A	\$0	\$175,000			\$0	\$175,000
Utilities & CIAC	Water System Master Plan (Study)	\$0	\$250,000			\$0	\$250,000
Utilities & CIAC	Wastewater Master Plan (Study)	\$0	\$0	\$250,000		\$0	\$250,000
Utilities R & R	Upgrade of WW Pump Stations 15A & 15C	\$0	\$0	\$200,000		\$0	\$200,000
Utilities R & R	Lime Sludge Concentration Project (Study)	\$0	\$0	\$100,000	\$1,500,000	\$0	\$1,600,000
Utilities R & R	Shaker Village Water Systems Upgrade	\$0	\$0	\$630,000	\$930,000	\$0	\$1,560,000
Utilities R & R	McNab Force Main, 92nd Ave/Nob Hill Rd.	\$0	\$0		\$250,000	\$0	\$250,000
Utilities & CIAC	MIEX Pretreatment System	\$0	\$0		\$100,000	\$0	\$100,000
Utilities R & R	Mechanical Upgrade WW Pump Stations 1,1E, & 19	\$0	\$0		\$250,000	\$0	\$250,000
Utilities R & R	Relocate Pump Station 15B	\$0	\$0		\$250,000	\$0	\$250,000
Utilities R & R	Relocate Backyard Water Mains - Tamarac East	\$0	\$0		\$500,000	\$500,000	\$1,000,000
Utilities R & R	Upgrade of WW Pump Stations 5, 5E, 15D	\$0	\$0			\$250,000	\$250,000
Utilities & CIAC	Emergency Generator Replacement & Fuel at WTP	\$0	\$0			\$950,000	\$950,000
Community Development	Main Street Infrastructure Improvements	511700	\$0			\$0	\$511,700
Community Development	Geographic Information Systems (GIS)	80000	\$93,400	\$0	\$0	\$0	\$173,400
TOTAL UTILITIES FUND	2229.25.110 1110.1110.110110 (010)	\$3,341,700	\$2,338,400	\$2,300,000	\$4,400,000		
TOTAL CAPITAL IMPROVEMENT	T DDO IECTS (EV2007 2014)	\$6 Q06 400	\$4,190,200	<b>¢3 080 000</b>	\$6 000 000	¢3 935 000	\$24 804 200
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Schedule 1A - Transportation Improvements

Project	Description	Estimated Cost	Type <u>*</u>	Target Year (s)
1.) Hiatus Road - Commercial Blvd. to McNab Rd.	New 4-lane divided road	\$1,100,000*	PN	<del>1999-2000</del>
2.) Street and Median Improvement Program	<del>Various improvements</del>	\$13,700,000 **	PN	<del>2001-2003</del>
3.) Citywide Sidewalk Program	<del>Various improvements</del>	<del>\$1,066,000</del>	PN	<del>2000-2002</del>
<del>Total Cost</del>		\$15,866,000		

<sup>\*</sup>City portion of total \$2.93 million cost.

Schedule 1B - Sewer System Improvements

<del>Project</del>	Description	Estimated Cost	Type *	Target Year (s)
1.) Infiltration & Inflow Program	Correct   &   systemwide as needed.	<del>\$ 1,808,000</del>	R	1999-2001
2.) Gravity Sewer System	Repair and equipment.	480,500	R	<del>2000-2001</del>
3.) Force Mains	Installation and relocation.	1,910,000	R	1999-2001
4.) Pump Stations	Installation and rehabilitation.	2,015,000	R	1999-2001
5.) Pump Stations	Electrical rehabilitation.	<del>295,000</del>	PN	1999-2002
6.) TUE Line Extension	Extend sewer lines to septic tank areas	453,000	<del>ED</del>	<del>2000-2001</del>
7.) Pump Stations	Mechanical rehabilitation.	540,000	PN	<del>2001-2003</del>
8.) Tamarac Commerce Park	Wastewater installation.	500,000	PN	<del>2000-2001</del>

<sup>\*\*</sup>This funding level reflects five (5) years of a total seven (7) year program.

<del>Project</del>	<del>Description</del>	Estimated Cost	Type *	<del>Target Year (s)</del>
<del>Total Cost</del>		\$8,001,500		

# Schedule 1C - Potable Water System Improvements

Project	Description	Estimated Cost	Type *	Target Year (s)
1.) Water Treatment Plant	Various projects for repair, maintenance and upgrade.	<del>\$ 955,000</del>	R	<del>2000-2002</del>
2.) Telemetry System	<del>Upgrade.</del>	1,470,000	R	<del>2000-2001</del>
3.) Water Plant	Install 2 MG storage tank.	2,500,000	R	2002-2003
4.) Water Projects	Transmission and distribution.	1,960,200	PN	1999-2001
5.) Water Mains	Replacement projects.	<del>567,800</del>	R	1999-2001
6.) Water Meters	Replacement.	<del>567,800</del>	R	2000-2002
7.) Tamarac Commerce Park	Water system installation.	365,500	PN	2000-2001
Total Capital Cost		\$8,386,300		

Schedule 1D - Park and Recreation Improvements

Project	Description	Estimated Cost	Type *	Target Year (s)
1.) Recreation Center Addition	Construct additional space.	<del>\$105,000</del>	PN	<del>1999-2000</del>
2.) Southgate Blvd. Linear Park	Construct 5' wide bicycle path.	<del>\$350,000</del>	PN	1999-2000
3.) Land Acquisition	Acquire via donation and/or purchase 32 acres for future park facilities.	\$3,200,000	PN	<del>2001-2003</del>
4.) Caporella Park	Construct restroom, replace bridge and improve	\$200,000	PN	1999-2000

Project	Description	Estimated Cost	Type *	Target Year (s)
	<del>picnic areas.</del>			
5.) New Senior Center	Construct 25,000 sq. ft. center with nutrition site, education programs, entertainment facilities and meeting rooms.	<del>\$2,600,000</del>	PN	<del>2000-2001</del>
6.) Veterans Park	Placement of Veterans Memorial	<del>\$50,000</del>	PN	1999-2000
Total Cost		\$6,505,000		

Schedule 1E - Stormwater Management Improvements

<del>schedule 1L - Stornwater Management Improvements</del>				
<del>Project</del>	<del>Description</del>	Estimated Cost	Type *	<del>Target Year (s)</del>
1.) NW 22 Av.	Commercial area drainage improvements.	<del>\$164,500</del>	EÐ	1999-2000
2.) Pumping Stations C-14	Rehabilitate 3 pump stations.	<del>\$380,000</del>	R	<del>2000-2001</del>
3.) Pump Station NW 44 St.	Construct water control pumping station.	<del>\$93,000</del>	<del>ED</del>	<del>2002-2003</del>
4.) Dewatering Facility	Construct dewatering facility for Jet-Vac trucks.	<del>\$33,000</del>	PN	1999-2000
5.) Geographic Information System.	Document all existing stormwater facilities.	<del>\$253,200</del>	<del>ED</del>	1999-2001
Total Cost		<del>\$923,700</del>		

<sup>\*</sup> ED - Existing Deficiency

PN - Projected Need

R - Replacement

Water Supply Plan Related Comprehensive Plan Amendments
VII. INTERGOVERNMENTAL COORDINATION ELEMENT VOLUME I: GOALS, OBJECTIVES & POLICIES
City of Tamarac

# VII. INTERGOVERNMENTAL COORDINATION ELEMENT

# **GOAL**

The City of Tamarac will coordinate with all appropriate agencies and units of government in order to successfully implement its Comprehensive Plan, to ensure that land development decisions made by the City are consistent with the plans of adjacent municipalities and applicable governmental entities, and to assist in the implementation of the plans of other units of government.

# Objective 1

The City will continue and improve coordination activities among government agencies with planning and impact assessment duties affecting the City; with other units of local government providing services but not having regulatory authority over the use of land, and with the comprehensive plans of adjacent municipalities, the county, and other appropriate state, regional, and local agencies.

- Upon completion of Comprehensive Plan updates and amendments, the City shall transmit the Plan to appropriate agencies within 60 days.
- Attendance and participation of City staff at appropriate meetings and workshops.
- Policy 1.1 The City will continue to work at the staff level with the following agencies: the Broward County School Board (through interlocal agreement); the South Florida Water Management District (SFWMD); the South Florida Regional Planning Council (SFRPC); Broward County and its agencies; the Department of Community Affairs (DCA); agencies of the State of Florida and adjacent municipalities.
- Policy 1.2 The City will transmit the Comprehensive Plan to all adjoining municipalities, to the Broward County Planning Council (BCPC) as the county certifying agency, to the Broward County School Board, to the South Florida Regional Planning Council (SFRPC), to the South Florida Water Management District (SFWMD), and to the Department of Community Affairs (DCA), which is the state's land planning agency, as provided in the State law for review and comment (as amended this language formerly included in Objective1).
- Policy 1.3 The City will improve communication and coordination between the office of the Mayor, City departments, Florida Power and Light (FPL), Broward County Water and Wastewater Services, the City of Fort Lauderdale Water Services, and other utilities which site utilities facilities and lines in Tamarac. This coordination will be done in order to provide improved service, demonstrate service needs, and to minimize

negative land use and environmental impacts from utilities facilities siting and location. These efforts will include the exchange of information including population and housing projections, <u>service demands</u>, and formal and informal review of proposed plans of service and site plans.

- Policy 1.4 The City, through the Public Works, <u>Utilities</u> and Community Development Departments, will improve communication and coordination with the South Florida Water Management District (SFWMD). This coordination will be achieved by the exchange of information and technical assistance with regard to development of a local water supply facilities work plan, water conservation and drainage. Joint use by the City and the South Florida Water Management District (SFWMD) of District property for recreational as well as drainage purposes will also be sought.
- Policy 1.5 The Community Development Department will submit information on proposed land use amendments, rezonings, annexations, and traffic improvements in a timely manner, both formally and informally, to the appropriate local government agencies of adjacent units of government including the School Board, Broward County, State agencies and cities.
- Policy 1.6 The City will annually review the plans of the Broward County School Board, the South Florida Water Management District (SFWMD), Broward County Metropolitan Planning Organization (MPO), and the Florida Department of Transportation (FDOT) to identify impacts to or conflicts with the City's Comprehensive Plan. The City will provide written comments identifying these impacts or conflicts and coordinate as necessary with the appropriate officials of the respective agency to address the conflicts or impacts, and/or consider amendment of the City's Comprehensive Plan to maintain consistency.
- Policy 1.7 The Tamarac Public Works Department and <u>Utilities Department</u> will continue to participate in countywide planning for sanitary sewers, solid waste, potable water, water management, and drainage at coordinating committee meetings and special workshops.
- Policy 1.8 The City will improve communication and coordination with all agencies of county\_and local municipal government, regional, state, and federal agencies whose plans and programs affect or are affected by those of the City of Tamarac. These improvements will include exchanging information, sharing proposed plans, technical assistance, and participating in formulation of regional implementation programs including transportation, drainage, water supply and conservation, sanitary sewers and solid waste management.

- Policy 1.9 In the event of any conflict between the City of Tamarac and other units or agencies of government regarding the Future Land Use Plan, amendments to it, or other Comprehensive Plan issues or their implementation, the City will seek first a negotiated settlement between the parties. In the event the conflict cannot be resolved directly between the units of local government, the City will use the South Florida Regional Planning Council's informal mediation process as provided by state law.
- Policy 1.10 The City will ensure that the development review process provides for full disclosure and assessment of any potential development proposal impacts on adjoining jurisdictions, and identified regional or state resources or facilities. In addition, all affected entities will be notified of application development proposals and hearings, and measures will be required to ensure mitigation of any adverse impacts and compatibility of proposed development with the development patterns of neighboring cities, and identified regional and state resources and facilities.
- Policy 1.11 The City will continue to both provide review and comment to and seek review and comment from other appropriate units of government on all development proposals, proposed plan amendments, proposed rezoning, annexation, and other matters which affect or may be affected by the plans of the City of Tamarac. Particular attention will be given to coordination in the development and adoption of levels of service (LOS) standards for public facilities with state, regional, and local agencies with monitoring, operational, or maintenance responsibilities for public facilities in Tamarac(as amended this language formerly included in Objective1).
- **Policy 1.12** The City of Tamarac will promote coordination with adjacent municipalities regarding large redevelopment projects, to monitor synchronous projects, and to evaluate how such projects may be made mutually beneficial.
- **Policy 1.13** The City, Broward County, adjacent municipalities, and other appropriate agencies will coordinate to identify any joint planning areas for the purposes of annexation, municipal incorporation and joint infrastructure service areas.
- Policy 1.14 The City will coordinate road and transit improvements in Tamarac through City representation on the Metropolitan Planning Organization (MPO) Board and the Technical Coordinating Committee (TCC).
- Policy 1.15 The City will coordinate with the South Florida Water Management District (SFWMD) to ensure that the City's plans, requirements and

- related actions are consistent with the Lower East Coast Regional Water Supply Plan.
- Policy 1.16 The City will continue to coordinate with the Broward County Environmental Protection Department (EDP) as necessary to comply with the requirements of the Broward County Joint Municipal National Pollutant Discharge Elimination System (NPDES) Permit.
- Policy 1.17 The City will coordinate with local housing agencies, the South Florida Regional Planning Council (SFPRC), and appropriate State housing organizations to identify housing needs and strategies for housing attainment and affordability.
- Policy 1.18 The City will monitor the progress of the South Florida Regional Planning Council (SFRPC) and Broward County in creating a regional affordable housing policy and, when complete, evaluate how the regional strategy could be supported by the City of Tamarac.
- Policy 1.19 The City will coordinate with the U.S. Department of Housing and Urban Development (HUD) in the administration of the City's Community Development Block Grant (CDBG) program and/or other programs, which may benefit the City.
- Policy 1.20 The City will use the State Housing Initiatives Partnership (SHIP) program allocations to help maintain existing housing stock by providing financial assistance for minor home repairs, and provide opportunities for home ownership through home purchase loans as available through the City's Local Housing Assistance Program (LHAP).
- **Policy 1.21** The City will participate in coordination efforts with Broward County municipalities, Broward County, FDOT, and other appropriate federal, state, regional, and county transportation agencies to ensure, to the greatest extent feasible, roadways maintain their respective levels of service.
- Policy 1.22 The City will continue to coordinate with appropriate local, county, state, regional, and federal agencies to create a common and cohesive vision for the redevelopment of State Road 7 (aka 441).
- Policy 1.23 The City shall support agencies which supply potable water to the City in the development of alternative water supply sources as recommended by the SFWMD in its Lower East Coast Water Supply Work Plan 2005-2006 Update.

The City will communicate and coordinate with the Broward County School Board to implement, update, and/or ensure the continuance of interlocal agreements and joint use agreements, and to ensure the adoption of the Public School Facilities Element.

- The City will sign the appropriate interlocal agreements within the state mandated timeframes.
- City staff participation and attendance to meetings, workgroups, and committees regarding public school concurrency, siting, and joint use.
- The City will adopt the Public School Facilities Element by February 1, 2008.
- **Policy 2.1** The City and School Board should, at a minimum, address the following in the agreements:
  - 1. School concurrency;
  - 2. Student enrollment and population projections;
  - 3. Coordination of population projections;
  - 4. Assessment and upgrading of school infrastructure;
  - 5. Selection of appropriate school sites and site plan review;
  - 6. Comprehensive plan amendments, rezonings, development approvals;
  - 7. Traffic impacts;
  - 8. Periodic review of the educational facilities impact fee ordinance to ensure that capital costs associated with the development of public school capacity are identified appropriately;
  - 9. Joint meetings between the City of Tamarac and the School Board to discuss and formulate policies and recommendations regarding school planning;
  - 10. Coordination and sharing of information;
  - 11. Representation from the School Board at the City's public meetings that address residential projects and affect school capacity issues; and
  - 12. Dispute resolution process.
- Policy 2.2 The City will work at the staff level with the School Board to successfully implement and continue the joint use agreements of facilities at Tamarac Elementary School and Tamarac Park, as well as explore other opportunities for additional joint use agreements (formerly Policy 1.2 amended).
- Policy 2.3 The City will coordinate with Broward County and the School Board to develop and adopt the Public School Facilities Element (PSFE) by the February 1, 2008 deadline. The PSFE should address the following:

- 1. Updating of the public school interlocal agreement;
- 2. School concurrency, including a concurrency management system and concurrency service areas;
- 3. Level of service standards for maximum permissible school utilization rates relative to capacity;
- 4. A financially feasible Public School Capital Facilities Program; and
- 5. Proportionate-share mitigation methodology and options.

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IV. INFRASTRUCTURE ELEMENT VOLUME I: GOALS, OBJECTIVES & POLICIES	
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# IV. INFRASTRUCTURE

### **GOAL**

The City will provide, or cause to be provided, and maintain essential public facilities serving all areas of the City and meeting all public health and safety standards for the following: the collection, transmission and treatment of sanitary sewage; the drainage of surface water; potable water supply, treatment, and transmission; the collection and disposal of solid waste including hazardous wastes, and for recharge of the natural groundwater aquifer.

## Objective 1

The City will correct existing facility deficiencies, maintain adequate levels-of-service, and provide for future growth. According to the schedule established in the Capital Improvement Element, all significant deficiencies will be corrected and provisions made for adequate public facilities to serve existing development and development for which permits have been issued.

- Each facility has been assigned a specific and measurable Level of Service (LOS) Standard. Population projections and LOS standards are used in combination to determine if any facility deficiencies are likely to exist in the five and ten year planning horizon. Any facility deficiencies identified which require capital improvements are addressed in a Capital Improvements Schedule contained in the Capital Improvement Element (CIE). The CIE is updated annually and sent to the State Planning Agency along with a citywide Capital Improvement Plan to demonstrate the financial feasibility of the CIE.
- Policy 1.1 Through its concurrency management system, as adopted in its Land Development Code, the City will monitor the growth of population, building permits and certificates of occupancy, and available capacities. The concurrency management system identifies the specific procedures for measuring facility capacity and for evaluating service availability against demand.
- **Policy 1.2** The City of Tamarac shall use the following LOS standards:
  - 1. SANITARY SEWER
    - Western Service Area (Broward County Wastewater Treatment Facilities)
       124 gallons per capita per day.

 Eastern Service Area (Fort Lauderdale Wastewater Treatment Facilities)
 131 gallons per capita per day.

#### SOLID WASTE

- Broward County Disposal Facilities (BIC Landfill and Resource Recovery Facility)
   8.9 pounds per capita per day.
- Tamarac Collection (Contractual Service Providers)
   All solid waste collection provided by City contracted service providers.

#### DRAINAGE

- FEMA criteria for minimum floor elevation and protection of floodplains;
- Standards as established by the Broward County Department of Natural Resources, South Florida Water Management District, Broward County Water Management Division, and the City of Tamarac for off-site discharge, on-site retention, and best management practices for pollutant discharge; and
- Ten (10) year storm will produce a headwater no higher than four (4) inches above the lowest catch basin rim in parking lots or two (2) inches below the edge of pavement in subdivisions.

#### 4. POTABLE WATER

- Western Service Area (Tamarac Water Treatment Plant)
   125 113 gallons per capita per day.
- Eastern Service Area (Fort Lauderdale Water Treatment Plants)
   80 73 gallons per capita per day.
- BCU Service Area (Broward County Water Treatment Plants)
   131 gallons per capita per day.
- Policy 1.3

  Provide the facilities listed in the adopted Schedule of Capital Improvements in the Capital Improvements Element within the period indicated by including them the projects in the five-year Capital Program and as appropriate in the annual Capital Budget.

  The City shall ensure that all city funded projects included in the schedule of capital improvements are also included in the City's five-

<u>year Capital Improvement Program and annual capital budget if appropriate.</u>

- Policy 1.4 All improvements for repair or replacement of facilities to correct existing deficiencies shall be consistent with the adopted level of service (LOS) standards for those facilities.
- Policy 1.5 All improvements for expansion or increase in capacity of facilities to meet demand shall be consistent with the adopted level of service (LOS) standards for those facilities.
- Policy 1.6 The City will continue to require that developers provide basic water distribution and wastewater collection systems and drainage to serve their development prior to issuance of a Certificate of Occupancy—as well as—and provide a fair share of the capital costs of major system improvements necessary to serve development.
- Policy 1.7 Prior to approving a building permit or its functional equivalent, the City shall consult with the applicable water supplier to determine whether adequate water supplies to serve the new development will be available no later than the anticipated date of issuance of a certificate of occupancy or its functional equivalent.

#### Policy 1.7

- Policy 1.8 The City will continue to collect the stormwater utility fee, enforce the Development Standards and Criteria and other code requirements pertaining to drainage. Development orders may be issued only if facilities and services are available to meet the adopted level of service standards concurrent with the impacts of development, as required by SS. 163.3202(2)(g), F.S.
- Policy 1.8 The Public Works, Utilities, and Community Development Departments shall compile and prepare updated information on facility demand, capacity, and reserve capacity as development orders or permits are issued. Annual summaries of capacity, demand, and reserve capacity for each facility and service area shall be presented to the City Commission.

# Objective 2

The City of Tamarac will ensure that capacity is available at all shared facilities by coordinating with other local governments and appropriate government agencies.

#### Monitoring and Evaluation:

• At least once a year, the City shall review all <u>infrastructure related</u> interlocal agreements to ensure that all entities are in compliances with the terms of the agreement and that the agreements is are up-to-date.

- **Policy 2.1** All interlocal agreements will always be <u>kept</u> current and upheld according to the terms specified in the agreement.
- Policy 2.2 The City will cooperate and coordinate with Broward County, adjoining municipalities, the South Florida Water Management District, and any other units or agencies of government with planning, management, maintenance, or monitoring responsibilities for sanitary sewers, solid waste including hazardous waste, potable water, or drainage and in the extension of or increase in capacity of facilities to meet future needs.
- Policy 2.3 The City hereby adopts by reference the City of Tamarac's 10-Year Water Supply Facilities Work Plan, 2008, and the capital improvement projects contained therein.
- Policy 2.4 The City hereby adopts by reference the Fort Lauderdale Water Supply Facilities Work Plan, 2008, and the capital improvement projects contained therein.
- Policy 2.5 The City hereby adopts by reference the Broward County 10-Year Water Supply Facilities Work Plan, 2007, and the capital improvement projects contained therein.
- Policy 2.6 The City hereby adopts by reference the South Florida Water Management District's Lower East Coast Water Supply Plan, 2005-2006 Update.

The City will maximize the use of existing facilities, and will take appropriate actions to maximize the use and extend the useful life of existing public facilities in order to reduce capital expenditures, conserve public financial resources, and maintain the level of service of existing facilities.

- The City shall monitor and evaluate the condition and use of each facility as it is appropriate.
- **Policy 3.1** The City will regularly monitor the operation and effectiveness of all elements of the system for which it is responsible, <u>and repair</u>, upgrade <u>and maintain existing public facilities</u> it as necessary.
- **Policy 3.2** The City will continue to fund capital improvements needed to maintain the level of service for all facilities.

**Policy 3.3** The City will initiate or continue maintenance and repair operations on existing public facilities.

# Policy 3.4

Policy 3.3

The City will continue inspection, video sealing program of to inspect sanitary sewer mains and repair or replacement of faulty mains in order to prevent increased infiltration and inflow of stormwater and debris or reduce infiltration into the gravity collection system, for the purposes of reducing cost to the City and users and extend the present level of service for sanitary sewers.

# Objective 4

The City will continue to ensure, through development review at the time a <u>of</u> site plan approval, that adequate facility capacity is available, or will be available when needed, to serve development.

#### Monitoring and Evaluation:

The City shall periodically monitor its concurrency management system to make sure that it is current and accurate. Further, the City shall review its capital improvement schedule to ensure that capacity expansions will be available to served new development when appropriate.

- **Policy 4.1** The City will continue to ensure, through development review at the time a of site plan approval, that adequate facility capacity is available, or will be available when needed, to serve development.
- Policy 4.2
- Policy 4.1 The City will maintain a five-year schedule of capital improvement needs for public all infrastructure related facilities to be updated and adopted annually in conformance as consistent with the Capital Improvements Element of this Plan.
- Policy 4.3
- <u>Policy 4.2</u> The City shall issue no development permit or order which <u>will</u> results in a reduction of the level of service for the affected public facilities below the level of service provided for and adopted in this Comprehensive Plan.
- Policy 4.4
- Policy 4.3 The City will continually monitor federal, State and local grant programs for infrastructure planning, design and construction funding which Tamarac could utilize to build necessary public facilities.
- Policy 4.4 The City will update its 10-Year Water Supply Facilities Work Plan within 18 months after any update to South Florida Water Management District's Lower East Coast Water Supply Plan as required by state law.

# Objective 5

The City shall take appropriate steps to ensure the conservation and protection of both the quality and quantity of the City's potable water resources for present and future residents of the City through <u>water use</u> conservation, <u>the in the use of water</u>, protection of wells currently in use by the City for residential, commercial, <del>and</del> industrial, and emergency purposes, and their cones of influence; and protection and expansion of <u>the</u> natural groundwater recharge area within urban development.

#### Monitoring and Evaluation:

The City shall evaluate its conservation programs on an annual basis to ensure that they are effective.

- Policy 5.1 The City will continue to require, in wellfield protection areas as part of development review or other permitting including Occupational Licensing, disclosure by all business and industry of materials, processes, and waste byproducts which may be introduced into the environment and which may be potentially harmful to life and health or interfere with the effective treatment and disposal of waterborne wastes. Substances which cannot be effectively managed or treated within acceptable public health and environmental standards, or safely and legally disposed of by the business or industry as certified by the disposal agency, will be prohibited.
- Policy 5.2 The City will continue to participate in the enforcement of the Broward County Wellfield Protection Ordinance and will prohibit through zoning, and site design and other review and permitting procedures, uses and activities which potentially threaten water quality.
- Policy 5.3 The City will continue to monitor its water production and distributive systems to ensure minimum water loss and the maintenance of acceptable ratios of raw water pumped in to water treated and distributed.
- Policy 5.4 The City will continue to monitor and enforce ordinances requiring water conserving fixtures in new construction and major renovation, and will maintain other policies directed toward water conservation such as pressure reduction in the potable water distribution system.
- Policy 5.5 The City will maintain its landscape ordinance and landscape irrigation systems ordinance which requires that a minimum of 50% water conserving native plant material be used in all landscape plans.
- **Policy 5.6** In the interest of protecting surface waters from pollutants carried by storm runoff and increasing infiltration and recharge of the groundwater aquifer, the City will continue to require in its development regulations a minimum percentage of pervious surface area, and promote the

- development of stormwater retention systems which contribute to recharge of the ground water aquifer.
- Policy 5.7 The City will support the SFWMD, the Lower East Coast Water Supply Plan, its conservation initiatives, and other relevant jurisdictions' water reuse projects and the implementation of new regulations or programs designed to increase the volume of reclaimed water used.
- Policy 5.8 The City shall continue to coordinate future water planning and conservation efforts with the City of Fort Lauderdale, Broward County, and the South Florida Water Management District.
- <u>Policy 5.9</u> The City shall continue to support and improve programs that promote water conservation in a cost-effective manner.

The City will continue to maintain the public waterways, lakes, and canals within its jurisdiction now and in the future, and cooperate with the SFWMD in the maintenance maintaining the and function of the public canal system and the water quality of the primary drainage system under its jurisdiction.

- The City will monitor its Code, administrative policies and programs concerning stormwater retention, and the extension and maintenance of the waterway system under its jurisdiction.
- **Policy 6.1** The City will prevent actions which would reduce the quality of water in its waterways below Class III.
- **Policy 6.2** The City will maintain and update as necessary its stormwater utility fee ordinance which provides for the extension, restoration, and maintenance of the City's waterway drainage system.
- Policy 6.3 The City will continue to enforce, as a part of this Land Development Code, requirements regulating land clearance and site grading activity in order to control non-point source pollution and filtration of the Ceity's stormwater retention areas and waterways.

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# V. CONSERVATION ELEMENT

#### **GOAL**

Conserve, protect, and appropriately manage the City's natural resources.

# Objective 1

The City will monitor and maintain its codes and ordinances, especially those dealing with platting, site planning, and subdivision design for the impact of their enforcement on the physical environment and to ensure that maximum practical protection is afforded thereby to the principal elements of the environment.

#### Monitoring and Evaluation:

- Record of enforcement of applicable City codes and ordinances.
- Policy 1.1 During the planning period, the Community Development, <u>Utilities</u> and the Public Works Departments will review the land development regulations to identify any ways in which the codes require actions which are not sensitive to the environment and ways in which actions to protect the environment can be improved. This analysis will result in appropriate amendments to the Codes during the planning period.

## **Objective 2**

The City will maintain and update (as necessary) its administrative procedures, especially those dealing with water supply and use, to ensure that optimum conservation of the ground water resource is achieved in concert with Broward County, the South Florida Water Management District (SFWMD), and other local government agencies.

- Maintain and update applicable administrative procedures.
- Policy 2.1 The Utilities, Building and Public Works Departments will review codes and procedures to identify ways to increase water conservation and ways in which the codes and procedures might be inhibiting water conservation. The analysis will result, during the planning period, in appropriate amendments to the codes and procedures.
- Policy 2.2 The City shall utilize measures such as those outlined in the SFWMD's Model Water Shortage Ordinance, and the Florida Department of Environmental Protection's (DPEP FDEP) Florida Water Conservation Initiative to address water usage so that a reduction in the per capita use of water is realized.

- Policy 2.3 The City shall enforce lawn irrigation restrictions established by SFWMD and Broward County as updated. The City should consider adoption of an ordinance limiting lawn irrigation to morning and evening hours.
- Policy 2.4 The City will continue to prohibit through land use, zoning, and site design and other review and permitting procedures, uses and activities which potentially threaten water quality.
- Policy 2.5 The City shall consider the adoption of an ordinance that will encourage water conservation initiatives as recommended by Broward County such as, Naturescape Irrigation, Naturescape Broward and Know the Flow, the SFWMD, the Florida Department of Environmental Protection and the City's Utilities Department to reduce the average daily water consumption in the City.

The City of Tamarac will act to improve air quality in Tamarac during the planning period by continuing to participate with the Broward County Department of Natural Resource Protection (DNRP) Environmental Protection Department (EPD) in regional air quality monitoring.

Monitoring and Evaluation:

- Maintain permit records reviewed by the Broward County Environmental Protection Department (EPD).
- Policy 3.1 The City will increase by 10 percent its enforcement of its anti-burning ordinance, especially in conjunction with construction activities and the disposal by incineration of hazardous waste through its Code Enforcement Department during the planning period.
- Policy 3.2 The City will continue to have plats reviewed by the Broward County Department of Natural Resource Protection (DNRP) Environmental Protection Department (EPD) to determine whether all air quality standards, including ozone, are being met by plats and proposed DRIs.

# Objective 4

The City will continue to enforce its noise ordinance during the planning period through the Community Development Department.

- Record of enforcement of the City noise ordinance.
- **Policy 4.1** The City will review its development regulations, especially those concerning site planning, to ensure that suitable separation and buffers

between living areas and nonresidential structures and arterial streets are required. Revisions to codes will consider such other noise reducing measures in site design such as earth berms, walls, and landscaping.

Policy 4.2 The City will also evaluate the impact of noise caused by nonresidential traffic on residential neighborhoods and will consider site plan or traffic control measures which will reduce the number of residential streets on which trucks are permitted to travel.

#### Objective 5

The City will continue to maintain the public waterways, lakes, and canals in Tamarac now and in the future and will cooperate with South Florida Water Management District (SFWMD) in the maintenance of water quality of the primary drainage system.

### Monitoring and Evaluation:

- Conduct frequent sampling and monitoring of surface waters based upon local, regional and state regulations.
- Policy 5.1 The City Public Works Department will continue to monitor and maintain, during the planning period, the Code, its administrative procedures, and its implementation programs for stormwater retention, extension, and maintenance of the waterway system under its jurisdiction to ensure adequate stormwater management and to prevent, through appropriate ordinances, actions which would reduce the quality of water in its waterways to below Class III. All development in the city must be consistent with the applicable SFWMD rules and regulations for maintenance and enhancement of surface water quality.
- **Policy 5.2** The City will maintain the stormwater utility fee ordinance which provides for the extension, restoration, and maintenance of the City's waterway drainage system.
- **Policy 5.3** The City will continue to enforce its ordinance regulating land clearance and site grading activity to control non-point source pollution and filtration of the City's waterways.
- Policy 5.4 The City will continue to enforce existing Land Development Code provisions for extended use of semi-pervious paving materials within parking areas and emergency internal circulation ways in order to reduce the quantity of contaminants reaching the surface drainage system.

# Objective 6

The City will continue to protect native vegetation through compliance with, and enforcement of, Broward County regulations concerning Local Areas of Particular

Concern (LAPC), Environmentally Sensitive Lands (ESL), Upland Tree Resources (UTR) and Natural Resource Areas (NRA) designated by the Broward County Commission.

- Annual recordation of development permits issued in the LAPCs, ESLs, and NRAs.
- **Policy 6.1** The City will require approval of a site development plan prior to commencement of site clearance and grading activities.
- Policy 6.2 In order to reduce the amount of water drawn from the aquifer for irrigation of ornamental landscaping, the City should strengthen the current landscape ordinance (Section 11-7(a) (8)) to provide for a minimum of 35 percent native plant material in landscape plans until 2010 when a minimum of 50 percent will be required.
- Policy 6.3 The City will implement its adopted landscape ordinance to provide that a minimum of 20 percent of plant material used in required landscaping shall provide habitats for native wildlife and birds.
- Policy 6.4 The City will protect native vegetative communities from destruction by development activities by implementing the requirements of the County's Local Areas of Particular Concern (LAPC) environmental legislation. The Community Development Department will during the planning period review its site plan and landscape plan requirements to identify additional means of protecting native vegetative communities, such as: no more than 30 percent of the native vegetation on a site may be destroyed during the development process; applicant shall relocate native vegetation to other locations on the site plan during the development process and will ensure that it is protected and maintained.
- Policy 6.5 Tamarac will protect and conserve wetlands and the natural functions of wetlands, and direct future land uses which are incompatible with the conservation and protection of wetlands away from identified wetland areas.
- **Policy 6.6** The City shall continue to protect native vegetation through code enforcement of Broward County's Tree Preservation Ordinance.
- Policy 6.7 The City should incorporate provisions into the land development regulations which preserve existing wetlands. The preservation of existing wetlands shall serve as a proactive approach to lessen the need for wetlands mitigation steps.

- **Policy 6.8** Tamarac shall maximize the use of native plants in City landscaping projects to provide and improve urban habitat and connectivity for native species.
- **Policy 6.9** The City should shall increase the tree canopy through streetscape and free-tree programs throughout City parks and facilities.
- Policy 6.10 Property owners should be educated about the environmental benefits of landscaping with drought-tolerant, native plants known as Xeriscaping. The City shall support the efforts of property owners to do so.
- Policy 6.11 The City shall continue to require water conserving fixtures for new construction, enforce adopted Xeriscaping standards, and other water conservation methods as recommended by Broward County, the SFWMD, the Department of Environmental Protection, and other relevant jurisdictions.

The City shall conserve and protect the quantity and quality of the City's water resources by requiring the protection of wells currently in use by the City for residential, commercial, industrial, and emergency purposes; their cones of influence and future wells and wellfields.

- Documentation of monitoring program of City wellhead protection areas.
- Policy 7.1 The City will continue to enforce the Broward County Wellfield Protection Ordinance and will prohibit through zoning, site planning, and occupational licensing, uses and activities which threaten water quality.
- Policy 7.2 The City will continue to monitor its water production and distribution systems to ensure a minimum of water loss and to maintain acceptable ratios (raw water pumped: water treated and distributed).
- **Policy 7.3** The City will continue to monitor and enforce ordinances requiring water conserving fixtures in new construction and major renovation.
- Policy 7.4 The City will provide in its development regulations for increasing the amount of pervious surface included in site plans. Methods to be considered include the use of partially pervious paving materials such as turf blocks in employee parking areas and fire lanes; and the development of stormwater retention systems which recharge the groundwater aquifer rather than channel stormwater to surface waters.

- Policy 7.5 The City will continue to participate in the adopted SFWMD Emergency Water Conservation Plan and Program and in the Water Shortage Plan during periods of drought as declared by the District.
- <u>Policy 7.6</u> The City shall continue to actively support the SFWMD in the implementation of programs that are designed to conserve water.

The City will continue to include consideration of wildlife, soils and other natural features of the land as part of the site plan and development review process.

- Ensure site plan and development review performed by proper departments and/or agencies.
- Policy 8.1 The City includes in its development review requirements a provision for <a href="the">the</a> restriction of development activities which adversely affect the survival of endangered and threatened wildlife. These requirements rely on Broward County EPD programs to help restrict development in certain wildlife habitats and mitigate usage of environmentally-sensitive lands.
- Policy 8.2 The City will continue to cooperate with adjacent cities and the county in order to conserve unique vegetative communities. The mechanism is the mutual review of zoning and land use plan amendments proposed for areas adjacent to municipal boundaries.
- Policy 8.3 The City's Land Development Code will continue to include a procedure for the preservation or mitigation of environmentally sensitive lands should any be identified during the platting or site plan processes. Developers will be required to identify any environmentally sensitive sites, as defined in the Broward County Land Use Plan and by the Broward County EPD as Local Areas of Particular Concern (LAPC) and/or Environmentally Sensitive Land (ESL).
- Policy 8.4 By 2010, the ordinance providing for occupational licensing shall be amended to provide for consequences should license holder mismanage any hazardous wastes on the licensed area or which would emanate from the licensed area.
- Policy 8.5 The City shall reduce the volume of solid waste requiring disposal by an additional five percent by the year 2010. Ordinances which address the packaging of products sold in Tamarac will be among those considered by the City for implementing this requirement.

- Policy 8.6 The City shall encourage residents to participate in the Broward County Waste and Recycling Services Department's Household Hazardous Waste (HHW) Program in an effort to prevent the improper disposal of hazardous materials.
- **Policy 8.7** The City will provide for the conservation and protection of the natural functions of existing soils, wildlife habitats, rivers, lakes, floodplains, wetlands, freshwater shores, and marine habitats.