

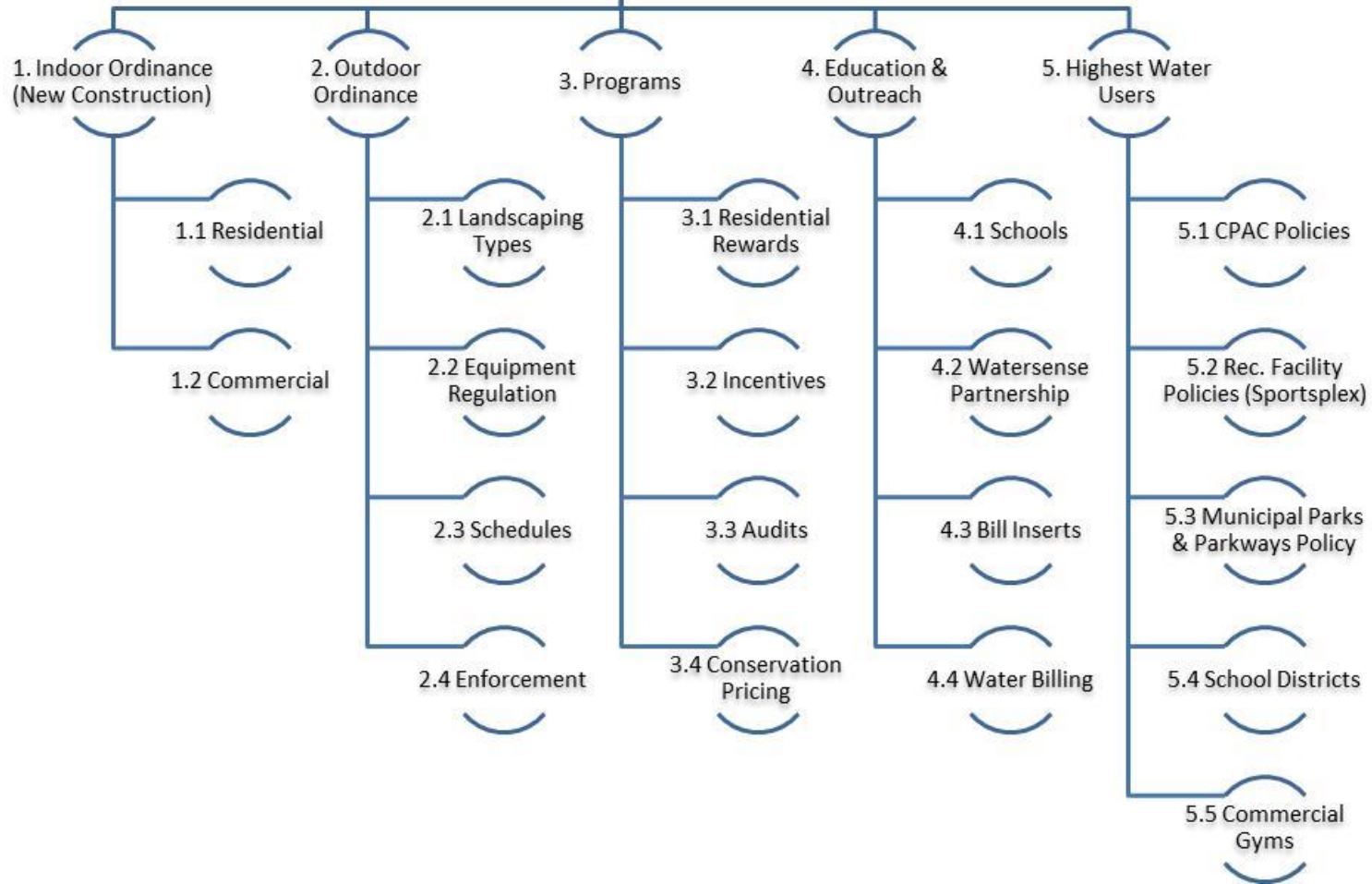
Water Conservation Strategy

PROJECT BREAKDOWN

DRAFT

July 10, 2013

Water Conservation Strategy Breakdown



1. Indoor Ordinance (New Construction)

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1.1 Residential		Notes	
Toilet	1.6 gpf		
Gravity Tank Toilet	1.28 gpf		
Electro-Hydraulic Toilet	1.28 gpf		
Pressure Assist Tank Toilet	1.28 gpf		
Flushometer Valve Activated Toilet	1.6 gpf		
Faucets	2.2 gpm (60 psi)		
Kitchen Faucets	2.2 gpm (60 psi)		
Lavatory Faucets	1.5 gpm (60 psi)		
Showerheads	2.0 gpm (80 psi)		
Dishwashers	Energy Star		
Clothes Washers	Energy Star		
1.2 Commercial			Notes
Toilet	1.6 gpf		
Gravity Tank Toilet	1.28 gpf		
Electro-Hydraulic Toilet	1.28 gpf		
Pressure Assist Tank Toilet	1.28 gpf		
Flushometer Valve Activated Toilet	1.6 gpf		
Faucets	2.2 gpm (60 psi)		
Kitchen Faucets	2.2 gpm (60 psi)		
Lavatory Faucets	1.5 gpm (60 psi)		
Showerheads	2.0 gpm (80 psi)		
Urinals (High Efficiency)	0.5 gpf		
Self-Closing & Manual Faucets	.5 gpm (60 psi)		
Metering Faucets	.25 gpc		
Drinking Fountains	Self-Closing		
Car Wash and Laundry Facilities	Equipped w/ water recycling systems		
Pre-Rinse Spray Valves (Restaurants)	1.6 gpm (60 psi) or 1.3 gpm (30 psi)		
Ice Machines	US EPA Program for Commercial Ice Machines		

2. Outdoor Ordinance

<i>2. Outdoor Ordinance</i>		
2.1 Landscaping Types		Notes
Turf Area and Location	Encourage the limit of high water use plants to 40% of landscape area	
Native Planting	Encourage use of native landscaping (60%)	
Soil Depth	Minimum 6 inch depth	
Mulch	Cover exposed soil with 2-3 inches of mulch	
2.2 Equipment Regulation		Notes
Rain-Sensing Shut off Valves	New irrigation systems must have rain-sensing shut off valves	
Hardscape Prohibition	Sprinkler heads must not spray onto or over any hardscape areas	
Narrow Strips of Land	Less than 6 feet wide shall be irrigated by drip or micro irrigation	
Sprinkler Head Valves	Specified breakaway pressure rating at irrigation heads to prevent low head drainage and puddles	
Irrigate Any Time, Any Day	Using micro-spray, bubbler, soaker, hand-held w/ automatic shut-off; using non-potable water from recycled water; using discharge water from a dependent cooling system	
2.3 Schedules		Notes
Irrigation Days	Odd/Even Wed./Sat. Thurs./Sunday	
Irrigation Schedules	April - Oct. 6pm-10am	
2.4 Enforcement		Notes
Variances	Turf and high water use plants allowed for developed landscape areas of less than 1,000 SF; waive requirements with compelling evidence to meet landscaping needs	
Water Waste	Complaint/Observation/Inspection, Notice of Violation letter, Hearing, Fee Assessment	

3. Programs

3. Programs

3.1 Residential Rewards Program

		Notes
Program Update	Link to Fix a Leak Week, World Water Day, National Drinking Water Week	
Commercial Rewards Program	Adopt similar program to RRP for commercial	
School Program	Leak detection and school ground planting activities	

3.2 Incentives

		Notes
High Water Users	Provide incentives to high water users to lower water use	
Water Efficiency Rebates	For fixtures, equipment, kits etc.	

3.3 Audits

		Notes
Public Sector Audits	Conduct audits on public customers through partnerships and water teams	
Pre-Qualify Consultants	To conduct audits and make water efficiency recommendations	
Performance Contracting	Use incentives and payback periods for water efficiency upgrades	

3.4 Conservation Pricing

		Notes
Rate Structure Review	Continue water conserving pricing and ensure the rate structure reflects current water usage patterns. Perform rate structure review.	

4. Education & Outreach

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4.1 Schools

Leak Detection

Leak detection awareness programs

Low Water Use Plantings

Knowledge for low water use plantings to students

4.2 Watersense Partnerships

Village Partner

Partner with EPA for materials to assist education and outreach efforts

Rebate Program

Operate rebates through Watersense

4.3 Bill Inserts

CMAP Bill Insert Program

Participate in CMAPs program to deliver conservation tips, strategies, ideas etc. to customers

4.4 Water Billing

Water Bill Revision

Revise water bill layouts and display useful water use information to help customers gauge usage and do best practices.

Notes

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5. Highest Water Users

<i>5. Highest Water Users</i>		
5.1 CPAC Policies		Notes
Weekly Detection	Conduct detection exercise to monitor water use	
Plumbing Retrofits	Showerheads, faucets, toilets etc.	
Sustainable Landscaping	Use low water intensive plant materials w/ interpretive signs	
Educational Locker Room Signage	Include water use signs for better water practices in public restrooms and locker rooms	
5.2 Rec. Facility Policies		Notes
Quarterly Leak Detection	Conduct detection exercise to monitor water use	
Plumbing Retrofits	Showerheads, faucets, toilets etc.	
Sustainable Landscaping	Use low water intensive plant materials w/ interpretive signs	
Educational Locker Room Signage	Include water use signs for better water practices in public restrooms and locker rooms	
5.3 Municipal Parks & Parkway Policy		Notes
Sustainable Landscaping	Use low water intensive plant materials w/ interpretive signs	
Efficient Irrigation	Use efficient systems and schedules to water municipal parks and parkways	
5.4 School Districts		Notes
Sustainable Landscaping	Use low water intensive plant materials w/ interpretive signs	
Plumbing Retrofits	Showerheads, faucets, toilets etc.	
Educational Signage	In bathrooms, showers, select areas around pools etc.	
5.5 Commercial Gyms		Notes
Plumbing Retrofits	Showerheads, faucets, toilets etc.	
Educational Signage	In bathrooms, showers, select areas around pools etc.	

