



NOTICE OF A CALLED MEETING OF THE
PLANNING AND ENVIRONMENTAL COMMITTEE
OF THE CITY OF SUNSET VALLEY, TEXAS
WEDNESDAY MAY 19th, 2021
6:00 P.M. - 8:00 P.M.

***Due to concerns regarding COVID-19, all meetings will be held virtually.
Please register by following this link:***

Registration URL: <https://attendee.gototraining.com/r/4898984423694589442>
Training ID: 633-906-780

You may also call into the meeting by calling:

Long Distance: +1 (510) 365-3331
Access Code: 554-959-030

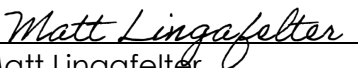
Notice is hereby given that the Planning and Environmental Committee of the City of Sunset Valley, Texas will hold a called meeting on Wednesday May 19th, at 6:00 P.M. via GoToTraining at which time the following items will be discussed, to-wit:

1. Call to Order
2. Citizen Comments
3. Presentation by staff on impervious cover and discussion on an impervious cover workshop to develop code changes regarding Chapter 4 of the Land Development Code.
 - i. Action Sought: Staff will provide a presentation on impervious cover. The Committee will begin discussion of code changes regarding watershed regulations at the June 3rd meeting.
 - ii. Action Approved:
 - iii. Next Meeting Steps:
 - iv. Adoption:
 - v. Supporting Documents:
4. Discussion and possible recommendation regarding 2021-2022 budget requests.
 - i. Action Sought: Committee will discuss possible budget requests for the 2021-2022 budget year including suspended programs, services, projects, and conservation rebates.
 - ii. Action Approved:
 - iii. Next Meeting Steps:
 - iv. Adoption:
 - v. Supporting Documents: Rebate Programs

5. Adjourn

A quorum of the City Council may attend the meeting, however, no official action by the City Council shall be taken.

I certify that the above notice of meeting was posted at City Hall, 3205 Jones Road, Sunset Valley, Texas, on the 14th day of May 2021 at 6:00 PM.


Matt Lingafelter
City Secretary

The City of Sunset Valley is committed to the compliance with the American with Disabilities Act. Reasonable modifications and equal access to communications will be provided upon request.

COMMITTEE MEETING DATE: MAY 19TH, 2021



PLANNING AND ENVIRONMENTAL COMMITTEE AGENDA ITEM

STAFF PREPARER/CONTACT INFORMATION: Carolyn Meredith
cmeredith@sunsetvalley.org

SUBJECT: PUBLIC WORKS AND ENVIRONMENTAL SERVICES

DESCRIPTION: Presentation by staff on impervious cover and discussion on an impervious cover workshop to develop code changes regarding Chapter 4 of the Land Development Code.

BACKGROUND: The City will be embarking on updates to the comprehensive plan as well as code revisions. One of the cornerstones of development in Sunset Valley relates to impervious cover. This presentation will lay a foundation for understanding what impervious cover is, why it is important, and how Sunset Valley addresses impervious cover in the land development code. The presentation will also look toward the future and begin to build the committee's knowledge of watershed-based zoning and code regulations and how the City can adopt new code that protects the environment while allowing for conscientious development.

It is proposed that the committee conduct an impervious cover workshop at their next meeting regarding single family residential impervious cover regulations to address the following questions:

- Residential Impervious Cover Regulations
 - What is Exempt?
 - What is not exempt?
- Impervious Cover Percentages
 - Critical vs. Transition vs. Uplands
 - Administrative Approval
- Mitigation requirements
 - Use of restrictive covenants.

APPLICABLE CODE SECTIONS: Watershed Regulations

STAFF RECOMMENDATION: N/A

SUPPORTING MATERIALS PROVIDED: POWERPOINT PRESENTATION



IMPERVIOUS COVER

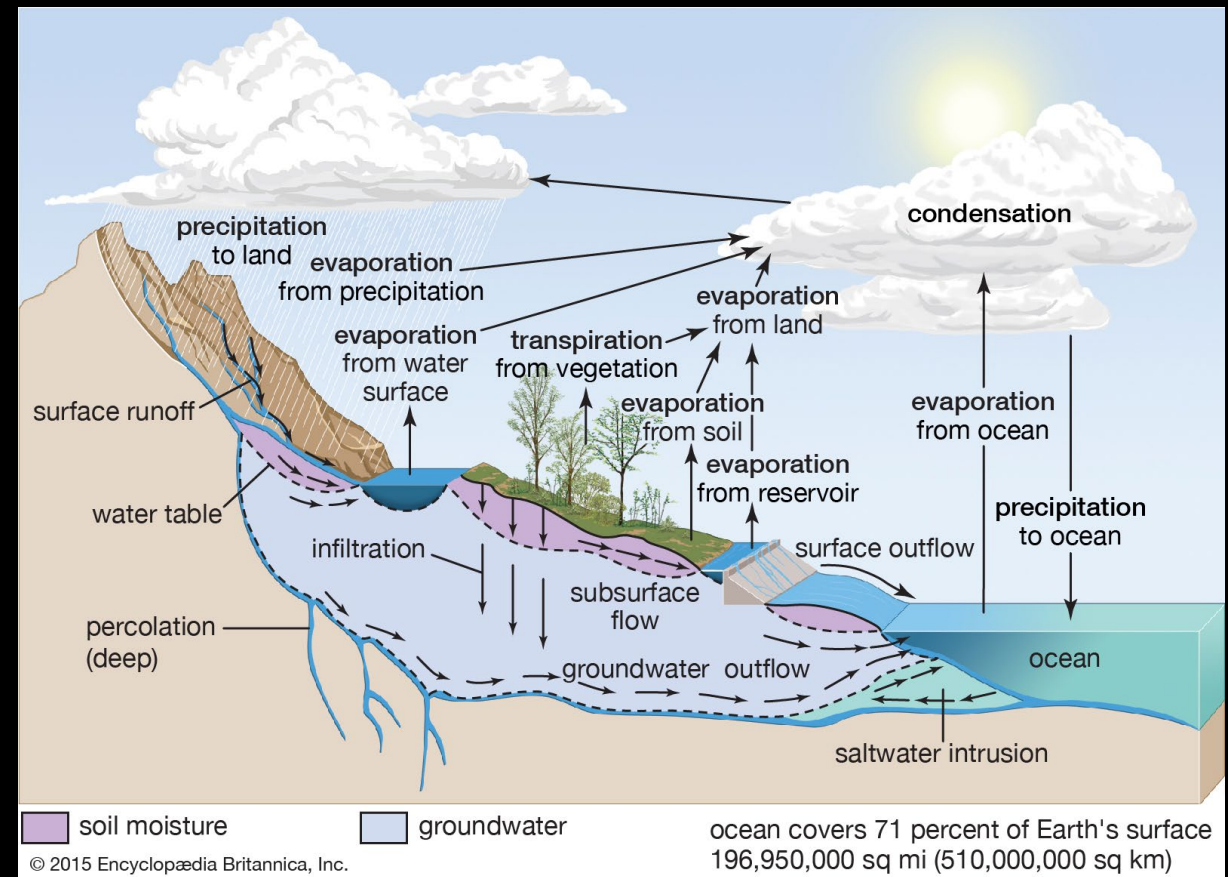
Watershed Development Primer

WHAT IS IMPERVIOUS COVER?

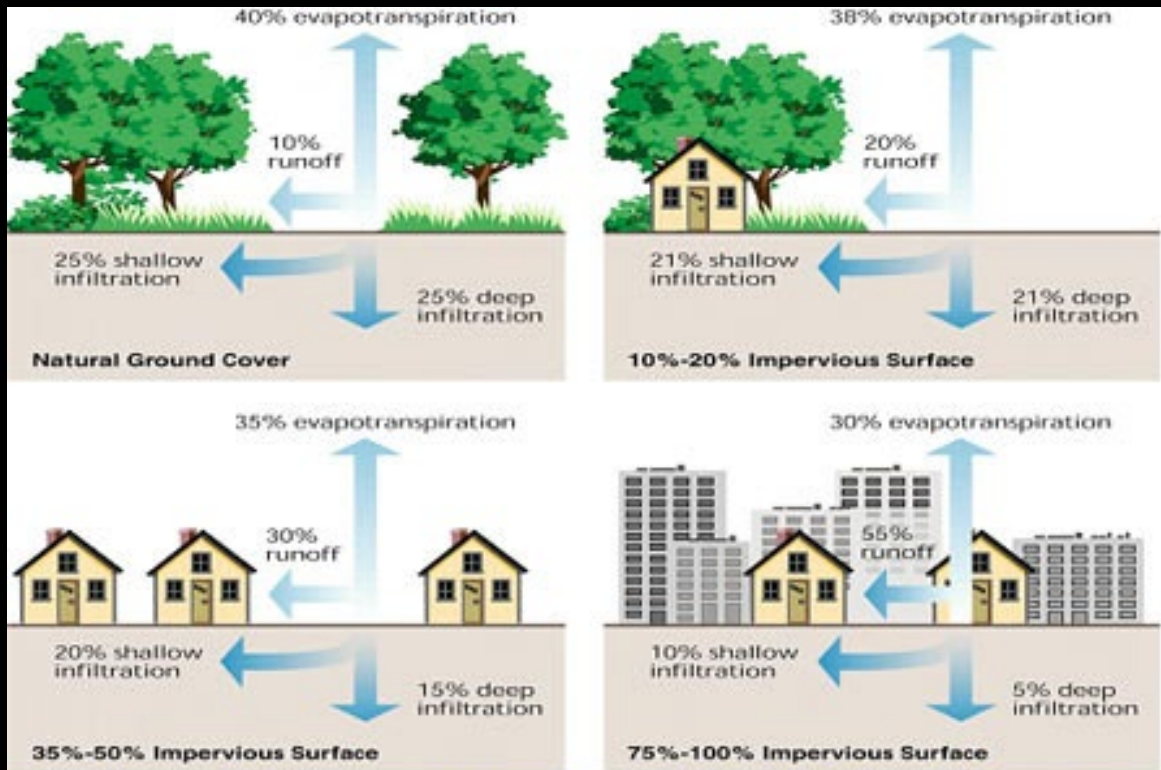
- Chapter 1 of Sunset Valley Land Development Code Definition:
 - "Impervious Cover": Roads, parking areas, buildings and other impermeable construction covering the natural land surface; this shall include, but not be limited to, all streets and pavement within a subdivision; See Section 4.301 for inclusions, exclusions, and exemptions from impervious cover calculations.

WHAT IS SO IMPORTANT ABOUT IMPERVIOUS COVER?

- Impervious cover is basically any surface that interferes with the relationship between rainfall and the natural land surface and vegetation. Impervious cover is generally something that is man-made that changes the natural cycle of water infiltrating the ground to be absorbed by plants or entering the aquifer.



EFFECTS OF IMPERVIOUS COVER



As impervious cover increases runoff increases and infiltration decreases.

The runoff from impervious cover also contains higher levels of sediments and chemicals than the runoff from natural ground cover.

Development increases the volume and rate of runoff from a site, and reduces groundwater recharge and evapotranspiration.

EFFECTS OF IMPERVIOUS COVER

- Increases in impervious cover
 - Increase Water Quantity
 - Hydrological Impacts
 - Physical Impacts
 - Degrade Water Quality
 - Biological Impacts
 - WQ Impacts

Hydrologic, Physical, Water Quality, and Biological Impacts Associated with IC (ENSR, USEPA, 2005)

Hydrologic Impacts

- Increased runoff volume (flooding)
- Increased peak flow rates
- Increased bankfull flow
- Decreased baseflow

Physical Impacts

- Modified sediment transport
- Channel enlargement
- Channel incision
- Stream embeddedness
- Loss of large woody debris
- Changes in pool/riffle structure
- Loss of riparian cover
- Reduced channel sinuosity
- Warmer in-stream temperatures

Biological Impacts

- Reduced aquatic insect diversity
- Reduced fish diversity
- Reduced amphibian diversity
- Reduced wetland plant diversity

Water Quality Impacts

- Increased sediment concentrations
- Increased nutrient concentrations
- Increased trace metal concentrations
- Increased hydrocarbon concentrations
- Increased bacteria and pathogens
- Increased organic carbon concentrations
- Increased MTBE concentrations
- Increased pesticide concentrations
- Increased deicer concentrations

The Need to Reduce Impervious Cover to Prevent Flooding and Protect Water Quality

HOW DOES SUNSET VALLEY MITIGATE THE EFFECTS OF IMPERVIOUS COVER CURRENTLY?

- Impervious cover limits
- Stormwater Controls/Water Quality Controls
- Land Preservation and Management
- Education



IMPERVIOUS COVER REGULATIONS

- 18% limit in Uplands Zone-established in 2003 for the entire City.
- 14% limit in Transition Zone with conditions for single family residential
 - No fill
 - Does not impede surface water runoff, increase flooding downstream
 - Mitigation Measures-Filter strip or rain garden
 - No hazardous materials
 - 75 feet from the critical water quality zone.
 - Possible path to 18% in this area.
- Water Quality Transition Zone considered development free for other zoning categories.
- Critical Water Quality Zone is considered development free.

WHAT COUNTS AS IMPERVIOUS COVER IN SUNSET VALLEY?

- Chapter 4.301(b) (1)
- Impervious cover and calculations thereof shall include, but shall not be limited the following:
 - (A) Alleys, streets, and any kind of pavement driveways, and parking areas used for vehicular purposes. For roadways or streets located within the boundaries of a proposed subdivision, the area to be included in an impervious cover calculation will be based on roadways widths of up to and including twenty-four feet (24'). Requirements for sizing water quality controls or detention facilities for runoff from such roadways are not affected by this provision.
 - (B) Buildings, concrete, and other impermeable construction covering the natural land surface.
 - (C) Roadways or streets located adjacent to a development area shall be included in the calculation of impervious cover as described in the City of Austin Environmental Criteria Manual, as amended, except that this provision does not apply to those roadways that either already have Water Quality Controls in place or Water Quality Controls have been previously approved for construction by the City Council and construction of such controls timely occurs as approved before the earlier of expiration of the permit or one year after the issuance of the subject watershed development permit.
 - (D) Site area used for the storage of scrap, auto, and metal salvage.

WHAT IS EXEMPTED?

- SINGLE FAMILY RESIDENTIAL

- (A) Water surface area of a swimming pool, hot tub, wading pond, fountain, bird bath, fish pond, and other similar city-approved structure.
- (B) Uncovered decks meeting the following standards:
 - (i) The deck must be constructed on piers or posts to allow for the unabated flow or passage of water underneath the deck;
 - (ii) The deck floor must be constructed of slatted material that provides for a minimum of ¼-inch drainage spaces between the slats; and
 - (iii) The deck must be constructed over pervious cover.
- (C) Up to 350 square feet of City-Approved rainwater harvesting systems whose sole purpose is for the collection, treatment, and/or storage of rainwater for on-site use. (Amended 5-20-2014)
- (D) Walkways and uncovered patios used for landscaping and pedestrian use only that are placed on pervious material and allow for the unobstructed passage of water between or through the material used in the construction thereof, as permitted pursuant to regulations adopted by the Director of Public Works for pervious structures.

WHAT IS “EXCLUDED” BUT CANNOT TAKE PROPERTIES ABOVE 18%?

- Single Family property located in transition zone and uplands
 - Up to 350 square feet of pedestrian sidewalk or walkway that is
 - (i) not greater than 3.5 feet in width;
 - (ii) connects to the primary single-family residential structure, and
 - (iii) has a minimum of 1 foot of pervious cover on each side.
 - Up to 350 square feet of covered decks or gazebos meeting the following specifications:
 - a. The deck or gazebo must be constructed on piers or posts to allow for the substantially unobstructed flow or passage of water underneath the deck or gazebo;
 - b. The deck or gazebo floor must be constructed of slatted material that provides for a minimum of ¼-inch drainage spaces between the slats;
 - c. The deck or gazebo must be constructed over pervious cover; and
 - d. Each wall of the deck or gazebo, excluding those sides of the structure adjoining a primary single-family residential structure, does not exceed 20-percent of the area measured from the top of the overhead cover to the top of the floor.
 - Up to 350 square feet and a maximum width of eighteen inches (18") of coping, if any, on: a swimming pool, hot tub, wading pond, fountain, bird bath, fish pond, and other similar city approved structures.
 - Up to 350 square feet of solar or wind power structures and facilities used for the primary purpose of providing on-site energy. (5) Up to 350 square feet of an accessory building that is elevated to allow for the substantially unobstructed flow or passage of water over pervious cover underneath. Nothing in this subsection shall exempt a lot or accessory structure from the requirements of Chapter 2 of the Land Development Code, including but not limited to the limitations on the number of structures allowed per lot.

PROBLEMS WITH CURRENT MITIGATION STRATEGIES

- Patchwork impervious cover standards
 - Variances
- Does not recognize new technology and approaches
 - On-site reuse
 - Green infrastructure
 - Green infrastructure is an approach to water management that protects, restores, or mimics the natural water cycle. Green infrastructure is effective, economical, and enhances community safety and quality of life. (American Rivers)
 - Smart Growth
 - Smart growth is an approach to development that encourages a mix of building types and uses, diverse housing and transportation options, development within existing neighborhoods, and community engagement. (Smart Growth America)
- Site conditions

WATERSHED VARIANCE REQUESTS 2014-2019

- 2014-2019
 - Approximately 46 variances requested to Chapter 4 of the Land Development Code
 - 33 Residential Requests
 - 13 Commercial
 - Residential Variances
 - 3.6% Request for Over 18%
 - 32.1% to build a house
 - 64.3% Other improvements (pools, sidewalk, driveway, guest house, accessory structure)
 - 36.7% Critical Water Quality Zone
 - 57.3% Water Quality Transition Zone/
Buffer to the Critical Water Quality Zone



RESIDENTIAL PROPERTY DEVELOPMENT

Uplands

	Square Feet
Site Area	43,330
House	2397
Front Porch	63
Screened Porch	543
Driveway	3132
Sidewalk	60
Accessory Building	856
AC Pad	12
Total	7063
% Impervious Cover	16.30

16.3% impervious cover

736 square feet remaining to reach 18%

Transition Zone

	Square Feet
Site Area	43,560
House	2581
Driveway	2919
Accessory Building	597
Total	6097
% Impervious Cover	14.00

Dedicated 11,770 vegetated filter strip

With exception of exempted items all other items must go to council for a variance

Critical Water Quality Zone, Buffer to the CWQZ, Transition Zone

	Square Feet
Site Area	87058
House	2931
Front Porch	559
Garage	1598
Side Patio	141
AC Pads	9
Water Tanks	200
Screened Patio	232
Covered Breezeway	357
Garage Patio	260
Driveway	2282
Total	8569
% Impervious Cover	9.84

24,365 vegetative filter strip and CWQZ dedicated as natural buffer.

Sunset Valley Villas-Uplands

	Square Feet
Site Area	8175
House	2882
Front Porch	291
Garage	420
Driveway	349
Total	3942
% Impervious Cover	48.22

WQ Controls provided by development.

COMMERCIAL/GUI IMPERVIOUS COVER TOTALS

Property Name	ADDRESS	LOT (ACRES)	TOTAL IMPERVIOUS COVER	% IMPERVIOUS COVER	APPLICABLE CODE
Market fair	5400 BRODIE LN	22.223	939449	97.05%	1985 Watershed*
Market fair Home Goods	5400 BRODIE LN	2.884	119329	94.99%	1985 Watershed*
Academy	5400 BRODIE LN	8.124	353881	100.00%	1985 Watershed*
Luby's	5200 BRODIE LN	1.050	45705	99.93%	1985 Watershed*
Pier 1	W 4965 U S HY 290	1.000	34000	78.05%	1985 Watershed*
Home Depot	5602 BRODIE LN	18.914	450422	54.67%	1996 Land Development Code
Wendy's	W 4961 U S HY 290	1.030	20854	46.48%	1996 Land Development Code
SSV Village	5601 BRODIE LN	43.310	1887455	50.08%	1996 Land Development Code
La Madeleine	5493 BRODIE LN	2.617	55259	48.47%	1996 Land Development Code
					1996 Land Development Code, 49.73% impervious cover for entire development including development transfers
BJ's	5207 BRODIE LN	1.280	50168	89.90%	
Red Robin	5601 BRODIE LN 1600	1.979	52602	61.02%	1996 Land Development Code
Schlotzsky's	5601 BRODIE LN 1700	1.034	16226	36.02%	1996 Land Development Code
Kohl's	W 4805 U S HY 290	12.195	278069	52.35%	1996 Land Development Code
Holiday Inn	W 4892 U S HY 290	3.820	80850	48.59%	1996 Land Development Code
					1996 Land Development Code, 49.73% impervious cover for entire development including development transfers
Verizon	5207 BRODIE LN	2.658	38886	33.60%	
					1996 Land Development Code, 49.73% impervious cover for entire development including development transfers
Homestead Shopping Center/Brodie Event Center	5207 BRODIE LN	22.713	644736	65.17%	
					1985 Watershed Originally, Variance in 2021 for 56.6% including developmental transfers
Cane Russo	S 4715 LAMAR BLVD	3.936	54685	56.60%	
Burger Center	3200 JONES ROAD	57.292	1917175	76.80%	Built prior to existing codes, has received variances for renovations.
					Built prior to existing codes, has received variances for renovations under current regulations.
SSV Elementary	3000 JONES ROAD	9.49	154509	37.40%	
					Originally Built under 1996 LDC, Variance received under 2003 Watershed Regulations
Longhorn	4809 HWY 290 W	2.318	40452	40%	
ATS	4910 HWY 290 W	2	15640	17.95%	2003 Watershed Regulations
Brodie Barn	6218 Brodie Lane	1.682	22713	31.20%	2003 Watershed Regulations
City Facilities	3205 Jones Road	11.784	91127	17.75%	2003 Watershed Regulations

*Totals as listed in GIS Database

WATER QUALITY CONTROLS AND MITIGATION

- Stormwater Controls

- Commercial Development

- Retention Reirrigation Non degradation (green)
 - Alternative to non-degradation-yellow.
 - Blue does not meet non-degradation standards

- Recent Subdivisions

- Villas
 - Meadows

Pond Location	Sedimentation/Filtration	Partial Sedimentation/ Filtration	Biofiltration or Bioretention	Retention/ Re-Irrigation	Wet Pond/ Bioretention	Wet Pond/ Retention/ Re-irrigation	Engineered Solution	Vegetative Filter Strip
SV Elementary	X							
Athletic Center	X							
Bus Barn			X					
4715 South Lamar		X						
Marketfair #1	X							
Marketfair #2	X							
Marketfair #3	X							
Holiday Inn	X							
Grand Reserve		X						
Village #1				X				
Village #2				X				
Homestead					X			
Homestead					X			
Homestead					X			
Kohls		X						
Home Depot		X						
La Madeleine			X					
Enviroplan								X
Lovegrass				X				
Curley Mesquite				X				
Villas	X							
ERW				X				
City Facilities						X	X	
ATS	X							
BARN				X				



FUTURE PLANNING

Conservation Or Watershed Based Regulations

WATERSHED PROTECTION PLANNING

- Conservation Land Planning
 - Watershed Based Zoning Categories
 - This technique is the foundation of a land use planning process using subwatershed boundaries as the basis for future land use decisions. Watershed based zoning involves defining existing watershed conditions, measuring current and potential future impervious cover, classifying subwatersheds based on the amount of future imperviousness, and most importantly modifying master plans and zoning to shift the locations and density of future development to the appropriate subwatershed management categories.
 - Performance Based Zoning
- Open Space and Land Conservation
- Riparian Buffers
- Site Design
- Erosion and Sedimentation Control
- Stormwater Management Design
- Non-Stormwater Discharges
- Education

CONSERVATION/WATERSHED BASED ZONING



City of Austin Watershed Protection Ordinance Regulations Summary Table

Effective: October 28, 2013

Red Text = Change from Previous Requirements

REGULATORY CATEGORY	ZONE	DESIRED DEVELOPMENT ZONE			DRINKING WATER PROTECTION ZONE		
		Urban	Suburban City Limits	Suburban N. Edwards / ETJ	Water Supply Suburban	Water Supply Rural	Barton Springs Zone
Impervious Cover (IC)	Calculation Basis	Gross Site Area	Gross Site Area	Gross Site Area	Net Site Area	Net Site Area	Net Site Area
	Transfers Allowed	No	Yes	Yes	Yes	Yes	No
	Uplands: Max Pct IC	Max Pct	Max Pct	Max Pct	Max Pct	Max Density	Max Pct
			Std / w Transfer	Std / w Transfer	Std / w Transfer	Std / w Transfer	[No Transfers]
	Single-Family Res. (Lot > 5750 ft²)	No Watershed IC Limit: Zoning Limits only	50% / 60%	45% / 50%	30% / 40%	1 unit per 2 ac.	
	Single-Family Res. (Lot < 5750 ft²)		55% / 60%	55% / 60%	40% / 55%	/ 1 unit per 1 ac.*	
	Multi-Family Residential Max Pct		60% / 70%	60% / 65%	40% / 55%	20% / 25%	
	Commercial Max Pct		80% / 90%	65% / 70%			
							* Min lot ¼-acre; ½-acre with transfers; Clustering: 1 unit/ac max; 2 units/ac w transfer
	WQ Transition Zone: Max Pct IC (outside floodplain)	Not Applicable	Not Applicable	Not Applicable	18%	1 SF unit / 3 acres	1 SF unit / 3 acres None over recharge
Critical WQ Zone: Max Pct IC	None (except road crossings)	None (except limited road crossings)	None (except limited road crossings)	None (except limited road crossings)	None (except limited road crossings)	None (except limited road crossings)	
Critical Environmental Feature (CEF) Max Pct IC	None within 150 to 300 ft radius	None within 150 to 300 ft radius	None within 150 to 300 ft radius	None within 150 to 300 ft radius	None within 150 to 300 ft radius	None within 150 to 300 ft radius	
Waterway Classifications	Minor		64 – 320 acres	64 – 320 acres	64 – 320 acres	64 – 320 acres	64 – 320 acres
	Intermediate	64 acres	320 – 640 acres	320 – 640 acres	320 – 640 acres	320 – 640 acres	320 – 640 acres
	Major		over 640 acres	over 640 acres	over 640 acres	over 640 acres	over 640 acres
	Notes	Urban creeks not classified					
Waterway Setbacks	Critical Water Quality Zone						
	Minor	50 – 400 ft.	100 ft.	100 ft.	50 – 100 ft.	50 – 100 ft.	50 – 100 ft.
	Intermediate		200 ft.	200 ft.	100 – 200 ft.	100 – 200 ft.	100 – 200 ft.
	Major		300 ft.	300 ft.	200 – 400 ft.	200 – 400 ft.	200 – 400 ft. (Barton mainstem 400 ft.)
	Notes	Between min and max width, coincides with the 100-year fully-developed floodplain	"Buffer averaging" allows sites to reduce width of buffers by up to one-half if the overall amount protected remains the same			Between min and max width, coincides with the 100-year fully-developed floodplain	
	Water Quality Transition Zone						
	Minor	Not Required			100 ft.	100 ft.	100 ft.
	Intermediate				200 ft.	200 ft.	200 ft.
	Major				300 ft.	300 ft.	300 ft.
	Variances from Buffers	Administrative under certain conditions	Must apply for Land Use Commission variance			Must apply for Land Use Commission variance.	
Water Quality Controls	Treatment Standard	Sedimentation/ Filtration	Sedimentation/ Filtration	Sedimentation/ Filtration	Sedimentation/ Filtration	Sedimentation/ Filtration	Non-Degradation
	When Required	All new/redeveloped if IC > 8,000 sq. ft.	All new/redeveloped if IC > 8,000 sq. ft.	All new/redeveloped if IC > 8,000 sq. ft.	All new/redeveloped if IC > 8,000 sq. ft.; all IC in WQTZ	All new/redeveloped if IC > 8,000 sq. ft.; all IC in WQTZ	All development
	Allowed in Creek Buffer	CWQZ = Yes per ECM WQTZ = N/A	CWQZ = Yes per ECM WQTZ = N/A	CWQZ = Yes per ECM WQTZ = N/A	CWQZ = No WQTZ = Yes per ECM	CWQZ = No WQTZ = Yes per ECM	CWQZ = No WQTZ = Yes per ECM
	Alternative Strategies Allowed	Yes	Yes	Yes	Yes	Yes	No
	Optional Payment-in-Lieu	Yes	No	No	No	No	No

SAMPLES WATERSHED ZONING

Pulaski County
Person County

NEXT STEPS

- Impervious Cover Workshop
 - June 3rd
 - Residential Impervious Cover Regulations
 - What is Exempt?
 - What is not exempt?
 - Impervious Cover Percentages
 - Critical vs. Transition vs. Uplands
 - Administrative Approval
 - Mitigation requirements
 - Use of restrictive covenants.
- Impervious Cover Workshop Commercial Areas

QUESTIONS

- What additional information does the committee need in order to begin this conversation?

COMMITTEE MEETING DATE: MAY 19TH, 2021



PLANNING AND ENVIRONMENTAL COMMITTEE

AGENDA ITEM #4

STAFF PREPARER/CONTACT INFORMATION: Carolyn Meredith
cmeredith@sunsetvalley.org

SUBJECT: PUBLIC WORKS AND ENVIRONMENTAL SERVICES

DESCRIPTION: Discussion and possible recommendation regarding 2021-2022 budget requests.

BACKGROUND: In 2020, the committee reviewed and ranked various projects and services. The Committee will review those items and make recommendations to the Budget and Finance Committee and City Council regarding these programs. Committee will discuss possible budget requests for the 2021-2022 budget year including suspended programs and services, projects, and conservation rebates.

At the committee meeting on May 10th, 2021 the committee recommended the following programs/service to be included in 2021/2022:

Program/Service	Recommendation
Mulch Delivery	Return program with fee for delivery
Adopt A Tree	Return program using a similar process that was used in April 2021.
Wildfire Preparedness Outreach	Develop educational program for Wildfire preparedness using volunteers and available resources
Electronics/HHW recycling	Determine if Sunset Valley residents are eligible for the Austin/Travis County program. Develop interlocal agreement.
Curbside Brush Chipping	Return to monthly brush chipping and develop educational component. Possible use of a different vendor for curbside services.
Community Garden	Possible increase in community garden. Codify relationship between the City and the organization that runs the garden.
Summer Youth Program	Return program to full funding.
Spring Cleaning Month	Fund program.
Trailer Usage	Allow with fee.

The committee also discussed the following projects:

Parks and Open Space Master Plan \$50,000

Land Development Code Revisions \$50,000

The committee will finalize any further recommendations to programs/services and projects as well as recommendations to the rebate programs.

APPLICABLE CODE SECTIONS:

STAFF RECOMMENDATION: N/A

SUPPORTING MATERIALS PROVIDED: REBATE PROGRAM INFORMATION

Category	Program	Description	Goal	Method of Measure	Total Cost	Max / Household	Status of Funding in the Current Fiscal Year	Committee Member Recommendation
Energy Conservation	Solar Conservation	In an effort to reduce demands on conventional fossil fuel based energy sources, the City of Sunset Valley is offering a solar energy conservation program to homeowners. Solar energy systems create clean energy with no emissions. Using solar energy to generate 1 kilowatt of power is equivalent to planting 50 trees.	Reduce demand on the energy grid. Improve air quality.	kWh saved	\$10,000 for Energy Conservation	\$3,000.00	Available	
Energy Conservation	HVAC - Air Conditioner	Heating and air conditioning use more energy than any other household activity. Newer systems are 40% more efficient than older systems. The City of Sunset Valley is offering a rebate for the cost to replace an existing air conditioning system or the purchase of an energy star window unit air conditioner.	Reduce demand on the energy grid. Improve air quality.	kWh saved	\$10,000 for Energy Conservation Rebates Vary: Split System Air Conditioners Residential—Five Ton Systems & Less \$180-\$600. Package Unit Air Conditioners Residential-Five-Ton Systems and Less \$300-\$480. Window Units Air Conditioners or Heat Pumps \$50.	\$600.00	Available	
Energy Conservation	Refrigerator	Newer model refrigerators are two to three times more energy efficient than models manufactured before 1993. Refrigerators are the most energy demanding appliances in our homes. To encourage energy efficiency the City of Sunset Valley is offering a rebate of \$100.00 toward the purchase of a new energy star refrigerator. Energy star refrigerators are at least 20% more efficient than federal standards.	Reduce demand on the energy grid. Improve air quality.	kWh saved	\$10,000 for Energy Conservation	\$100.00	Available	

Category	Program	Description	Goal	Method of Measure	Total Cost	Max / Household	Status of Funding in the Current Fiscal Year	Committee Member Recommendation
Energy Conservation	Weatherization	The goal of the weatherization rebate program is to make existing homes more energy efficient. Weatherization is one of the most cost effective ways to conserve energy. The City is offering a variety of rebates from basic weatherization to providing additional insulation.	Reduce demand on the energy grid. Improve air quality.	kWh saved	\$10,000 for Energy Conservation Audit-\$0.12 per square foot up to \$300.00 Additional Insulation-\$0.25 per square foot up to \$625.00 Solar Screening/Solar Shading/Film- \$1.00 per square foot up to \$100.00 Duct Replacement/Wrapping- \$1.00 per linear foot up to \$100.00 Low E Windows-\$5 per square foot up to \$300.00 Wi-Fi enabled thermostat-40% of cost up to 100	\$1,425.00	Available	
Energy Conservation/Water Conservation	Tankless Water Heater	As more and more homes integrate green technologies, homeowners are discovering the benefits of tankless water heaters. Unlike storage tank water heaters, tankless water heaters only heat water when needed, which conserves energy. Tankless water heaters can reduce energy demand for heating water by 40%. Tankless water heaters can also save water by providing on demand hot water. In an effort to decrease energy and water demands the City of Sunset Valley is offering a rebate.	Reduce demand on the energy grid. Improve air quality.	kWh and GPY saved	\$10,000 for Energy Conservation Cost is split between Water and Energy- Appliances \$5000, Water \$ 26,000 \$250.00 - Energy Conservation \$250.00-Water Conservation	\$500.00	Not Available	
Pollution Reduction	Light Pollution	Light pollution is exposure to excessive and inappropriate artificial light. Sunset Valley is a dark sky community encouraging lighting to face down. This type of lighting helps reduce urban sky glow, light trespass, glare, and clutter. The International Dark Sky association has developed a seal of approval for lights that reduce In order to reduce light pollution. This program aides residents in replacing outdoor lighting with lights that are dark sky certified.	Reduce sky glow and glare	Up light and Glare reduction	Pollution Reduction Rebates and Programs- \$1500 50% of the cost up to \$75.00	\$75.00	Available	

Category	Program	Description	Goal	Method of Measure	Total Cost	Max / Household	Status of Funding in the Current Fiscal Year	Committee Member Recommendation
Pollution Reduction	Lawn Equipment	According to the Environmental Protection Agency, over 5% of urban air pollution results from gasoline-powered lawn and garden equipment. The goal of this program is to provide an incentive towards the purchase and use of electric and propane lawn equipment.	Improve air quality	CO2 Emissions	Pollution Reduction Rebates and Programs- \$1500 50% of the purchase price of an electric or propane lawnmower, up to \$200.00. 50% of the purchase price of electric or propane string trimmers and leaf blowers up to \$100.00.	\$300.00	Available	
Pollution Reduction	Home Composting	The goal of the home composting rebate program is to reduce the amount of organic matter that enters the waste stream.	Reduce Landfill Disposal	Solid Waste Reduction	Pollution Reduction Rebates and Programs- \$3000 75% of the cost up to \$100	\$100.00	Available	
Water Conservation	Low Water Use Rebate	Residential households who use less than 3,000 gallons per month are eligible for this rebate. The base rates for water is covered by the City.	Reduce current and future water demands	GPY saved	Water Conservation Rebates and Programs-\$10,000 Approximately \$15 a month	180 per year	Available	
Water Conservation	Washing Machine	New High Efficient Washing Machines.	Reduce current and future water demands	GPY saved	Water Conservation Rebates and Programs-\$10,000 \$ 500	\$500.00	Available	
Water Conservation	Toilet	Dual Flush and/or 1.28g or less High Efficiency Toilets	Reduce current and future water demands	GPY saved	Water Conservation Rebates and Programs-\$10,000 \$225	\$675.00	Available	

Category	Program	Description	Goal	Method of Measure	Total Cost	Max / Household	Status of Funding in the Current Fiscal Year	Committee Member Recommendation
Water Conservation	Water Conservation Landscaping	<p>Up to 60% of residential water use may be used outdoors. Turf grasses require a lot of water and generally need more than once a week watering to be healthy. This program has three components:</p> <ol style="list-style-type: none"> 1) Converting turf areas to native planting beds. 2) Converting turf to non irrigated areas such as gravel or mulch. 3) Converting St. Augustine lawns to native turf. 	Reduce current and future water demands	GPY saved	<p>Water Conservation Rebates and Programs-\$10,000 Lawn to Native Beds- \$20.00 per 100 square feet up to \$500.00 with a minimum 500 square feet. Lawn to Non-Irrigated Areas- \$30.00 per 100 square feet up to \$600.00 with a minimum 500 square feet. Native Grass- \$10 per 100 square feet up to \$500.00 with a minimum 500 square feet.</p>	No Maximum	Available	
Water Conservation	Rainwater Harvesting	<p>In an effort to encourage water conservation the City of Sunset Valley is offering a financial incentive to homeowners that install large rainwater harvesting systems (greater than 300 gallons). The system must be capable of capturing the first inch of rain for the first 1000 square feet of roof catchment area and half an inch of the second 1000 square feet of roof catchment area. In general 0.6 gallons per square foot of roof per inch of rain can be collected from your roof catchment area. For example a house with 2,000 square feet of roof catchment area would need to have storage facility for approximately 900 gallons of water.</p>	Reduce current and future water demands	GPY saved	<p>Water Conservation Rebates and Programs-\$10,000 First \$500.00 - 100% Above \$500.00 - 50% up to \$3000.00</p>	\$3,500.00	Available	

Category	Program	Description	Goal	Method of Measure	Total Cost	Max / Household	Status of Funding in the Current Fiscal Year	Committee Member Recommendation
Water Conservation	Irrigation Upgrades	The goal of this program is to conserve water by upgrading existing irrigation systems to reduce waste.	Reduce current and future water demands	GPY saved	Water Conservation Rebates and Programs-\$10,000 Rain or Soil Moisture Sensor-Up to \$50 Pressure Regulating Valve-Up to \$100 Pressure Regulating Components- Up to \$100 Conversion from Spray to Multi Stream-\$4 per nozzle up to \$100 Capping a station-Up to \$50 per station Conversion to Drip Irrigation- Up to \$50 per station.	No Maximum	Available	
Reimbursement Program	Library Card	This program allows the City to reimburse each household the \$120 fee that the City of Austin charges for a library card.			\$2,500.00		Available	