6th Annual Home Owners Association Meeting
February 27, 2014

presented by the
Leawood Sustainability Advisory Board

Mission Statement
To lead, motivate, and collaborate with Leawood citizens to increase recycling, encourage conservation, and promote ‘green’ mobility options in the City of Leawood.
Welcome!
Mayor Peggy Dunn
SUSTAINABILITY ADVISORY BOARD

“Our mission is to lead, motivate, and collaborate with Leawood citizens to increase recycling, encourage conservation, and promote ‘green’ mobility options in the City of Leawood.”

The Green Citizen Initiative Task Force became a permanent committee in 2010.

YOUR GREEN TEAM ...

- 9 Task Force Members - alternating 2 year terms
- 1 Honorary Member and 2 Council Members
Introducing your ‘Green Team’
Leawood Sustainability Advisory Board

Debra Filla, Chair
Council Member
Ward 1

Julie Cain, Vice Chair
Council Member
Ward 4

Martha Conradt
• PR, Newsletter
• Website, Media

Mike Gillaspie
• Energy Conservation

Alicia Jennings
• Safe Routes
• Bike/Walk to School

Gareth Matthews
• School Outreach
• Energy Conservation

Jim Potter
• Recycling

Mike Schaadt
• Stream Team

Scott Pashia
• Education

Chris Schultz
• Project Manager
• Marketing, Promoting

Bob Pierson
• Waste Management
• Recycling

Kevin Jeffries, Honorary Member
• President & CEO,
  Leawood Chamber of Commerce

Staff Liaisons
• Chris Claxton, Director of Parks & Recreation
• Brian Anderson, Parks Superintendent
• Marica Putman, Adm. Graphics Tech
How Low Can You Go?

To lower the use of water, gasoline and electricity, and reduce trash to the landfill?
• 5:00  HOA Round Table - Emerald Ash Borer
• 5:30  Check-in ~ Bar Opens ~ Visit Vendor Tables
• 6:00  Buffet Opens
• 6:15  Welcome
       Mayor Dunn
       Sustainability ~ What’s It All About?  Debra Filla
       Recycling

       Green Mobility
       Bike/Pedestrian Master Plan  Brian Anderson
       Parks & Recreation Master Plan  Chris Claxton
       135th Street Corridor Study  Richard Coleman

       Conservation
       Justice Center Efficiency  Jim Stearman
       Residential/HOA Energy Audits  Mary English
       Lights/Curbs/Sidewalks/Streets  Joe Johnson
       Water  Julie Cain

• 7:20  Raffle Drawing/Prize Awards/Wrap Up
        Chris Schultz & Julie Cain
        Visit Booths/Tables
INTEREST CARD AND RAFFLE

Leawood Sustainability Advisory Board

6th Annual Home Owners Associations Meeting

Interest Card

Please share your contact information so you can receive information and updates on occasion from the Sustainability Advisory Board and assist us in keeping accurate records.

Name ____________________________________________________________

Address __________________________________________________________

Phone  □ Home  □ Cell  □ Work ________________________________

HOA ____________________________________________________________

Phone  □ Home  □ Cell  □ Work ________________________________

HOA Position ____________________________________________________

Email ____________________________________________________________

May we share your information with other HOA officers? □ Yes  □ No

Please let us know what topics are of interest to you. Rank these topics, with 1 being the topic you would be most interested in hearing about at next year’s annual meeting.

Recycling:        _____ Recycling/Waste Management/Hazardous Waste

Conservation:     _____ Stream Team _____ Trees _____ Rain Gardens & Rain Barrels

Green Mobility:   _____ Bike/Walk to School, Walking School Bus

                      _____ Complete Streets (safe access for all - pedestrians & bicyclists)

_____ Sustainability (Green) Education

_____ Other ______________________________________________________
HOA MAP
SUSTAINABILITY ~
WHAT’S IT ALL ABOUT?
The approximate date human resource demands exceed nature’s budget – fell on August 20.

In less than nine months, we used more natural resources than what it takes the planet 12 months to produce.

By 2050, the global population is expected to reach 9 billion!
The Ecological Footprint

MEASURES
how fast we consume resources and generate waste

- Energy
- Settlement
- Timber & paper
- Food & fibre
- Seafood

COMPARED TO
how fast nature can absorb our waste and generate new resources.

- Carbon Footprint
- Built-up land
- Forest
- Cropland & pasture
- Fisheries

Global Footprint Network®
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Study foresees further aquifer depletion

BY ROXANA HEGERMAN
The Associated Press

If Kansas farmers keep irrigating crops at present levels, an estimated 69 percent of the water in the High Plains Aquifer system will be depleted within 50 years, according to a study released Monday.

The High Plains system, a collection of smaller aquifers, supplies 30 percent of the nation’s irrigated groundwater and extends beneath parts of eight states in the Great Plains. The latest study focused on a big part of the High Plains system, the Ogallala Aquifer underneath Kansas.

The report by researchers at Kansas State University was published in the scientific journal “Proceedings of the National Academy of Sciences of the United States of America.”

The report noted that only 3 percent of its water had been tapped in 1960 — before farmers began putting in huge irrigation systems in western Kansas. An estimated 30 percent of the aquifer had been depleted by 2010, the study said, forecasting an additional 39 percent of the aquifer’s water will be gone by 2060.

“Society has an opportunity now to make changes with tremendous implications for future sustainability and livability,” the study concluded. “The time to act will soon be past.”

Irrigators are pumping more water than is naturally recharging. The aquifer’s natural recharge accounts for just 15 percent of the amount of water now being pumped out of it.

Once the water in the aquifer is gone, the study projects it will take between 500 and 1,300 years to refill. But it also outlined several scenarios whereby irrigators could cut back on pumping and possibly extend its usable life to 2110.

David R. Steward, a Kansas State University professor of civil engineering and co-author of the study, said researchers put forth those scenarios not to advocate any particular policy but to give people an understanding of what the implications could be for the present and the future of corn and cattle production in the region.

“The motivation for the study — what we really wrote the paper for — was the family farmer who wants to be able to pass his or her land on to their grandchildren and have their grandchildren have the same capacity, the same abilities for successful agriculture that they do,” Steward said.

West-central Kansas has had the biggest depletions to date, but even the largest water stores in southwest and northwest Kansas are forecast to have pumping capacity limits within 20 years, given current trends.

Jim Butler, chief of the geohydrology section of the Kansas Geological Survey, said he had not seen the 4-year study, which was funded by the National Science Foundation, the U.S. Department of Agriculture and Kansas State University’s Rural Transportation Institute. But Butler said the findings were consistent in a general sense with past work his agency has done.

Both Steward and Butler lauded a promising pilot program enacted earlier this year in northwest Kansas’ Sheridan County aimed at prolonging the life of the aquifer. The Northwest Kansas Groundwater Management District No. 4 instituted a mandatory water management program that limited pumping for the next five years. Irrigators who pump more face fines and a suspension of their water use for two years.

Ogallala Aquifer depleted 30% by 2010 and forecasted to be 69% depleted by 2060!
Buildings in the U.S. consume 42% of total energy and 72% of electricity.

Buildings in the U.S. use more energy than any country, except China.

-Rocky Mountain Institute
Replacement Options for Incandescent (A-lamps)

1. **Halogen Incandescent** - similar to standard A-lamps, a bit more efficient, slightly more expensive, lasting 1-2 yrs.

2. **Compact Fluorescent Lighting (CFLs)** - more efficient and longer lasting. Better quality but still contain mercury.

3. **LEDs** - a lot more efficient ~ using 75% less energy than incandescent lighting and a longer lasting ~ 25,000 hrs, or 22 yrs based on average household. LEDs are the future.

Match lamps and controls for best results!

Visit our lighting display!
1. Give Up Bottled Water
2. Switch to more efficient lighting
3. Wash your laundry in cold water
4. Use a programmable thermostat
5. Cut your gasoline use ~ walk or ride your bike

I think the world is going to be saved by millions of small things.

~ Pete Seeger
School Sustainability Awards

Corinth signs and traffic cones for Spring & Fall Walking School Bus program

Prairie Star recycling bins

Cure of Ars recycling "bottles" for recycling bottles

Mission Trail composting bins to supply compost to school garden
RECYCLING

DEBRA FILLA
SAB Chair, Council Member Ward 1
Leawood will be the 1st city in Johnson County to achieve 100% household participation in curbside recycling.
Municipal Solid Waste Generation, Recovery and Disposal in Johnson County, KS

Pounds Per Person Per day

Year

2005 2008 2012

trash recycling yard waste

Reduced amount sent to landfills
Increased amount recycled
Doubled amount of yard waste composted

JoCo recycling & yard waste diversion = reduced landfill

30% reduction by 2012

...statistics provided by Julie Davis, Environmental Program Manager
JoCo Health & Environment
Recycling in the Parks

5 TONS in the first year - 2009
7 TONS collected 2013

Other Parks & Recreation that now recycle are:
Blue Valley Recreation, Lenexa, and Shawnee
Recycling Extravaganza
October 2013 Event - By the Numbers

983 customers
62,000 pounds of electronics
39,500 pounds of paper shredded
2 box trucks of building materials (ReStore)
1,200 lbs of electronics of fabrics & notions
600 pairs of shoes
134 bicycles
8,900 lbs of housewares, clothing, & furniture (Goodwill)
620 fluorescent tubes
760 pounds of medications
1,100 lbs of durable medical equipment
Flatbed trailer, wheelbarrows, rakes, clippers, etc.

More Extravaganzas to come this spring and fall!
Coming this Spring!

2014 Recycling Extravaganza May 3rd

Recycling Extravaganza

Saturday, May 3rd, 2014 • 8:00 am - 2:00 pm
Parking lot of the vacant retail on the NE corner of 95th and Metcalf • Overland Park, KS

Confidential documents will be destroyed onsite by ProShred Security.
Suggested donation for this service is $5 for a standard file box.
A charge of $10 for tube type TVs and CRT monitors only. For 10 or more computers, contact Surplus Exchange at 816.472.0444 to schedule a pickup at your location.

ACCEPTED ITEMS:

Working/Non-Working Electronics
• computers, radios, stereos, CD players, small electronics, flat panel TVs and monitors, printers and cell phones, etc. (no charge)
• tube TVs and CRT monitors ($10 each)

ProShred Security
• confidential papers for shredding
• paper clips and staples are OK - no loose leaf binders
• donations suggested

Heartland Habitat for Humanity, ReStore
• new and usable building materials, hardware, fixtures, appliances

Goodwill Industries
• clothing, housewares, small appliances, furniture, toys, and many other items

Fabric Recycles
• unused fabric and notions
• unusual lengths, sizes of fabric and trims, notions, machines

Revolve
• bicycles and bike accessories (e.g. helmets, racks, and tools) - working and non-working for repair and reuse or recycling

Shoe Kansas City
• gently used shoes of all kinds

Coalition for Independence
• durable medical equipment (wheelchairs, hospital beds, walkers, shower chairs, etc.)

Greater Kansas City Community Gardens
• shovels, spades, garden forks, cultivators, garden hoes, rakes (no leaf rakes), garden hand tools, any strange misc. garden tool, wheel barrows, watering wands, and water heads
• no chemicals or hoses

Rehabilitation Institute
• books (hardcover and soft), magazines, and newspapers

Unleashed Pet Rescue
• crates, kennels, dog beds, sheets, towels, dog toys, tie outs
• scoopable cat litter, cat towers, cat toys
• bags of dry dog food (OK if open), cans of cat and dog food

Miscellaneous
• eyeglasses, sunglasses, hearing aids

Please visit the Overland Park website http://opkansas.org for more information or contact Jim Twigg at 913.895.6273 or via email: jim.twigg@opkansas.org.
2014 DATES – June 7th & September 20th

LARGE ITEM RECYCULATION DAY

Saturday, June 7, 2014
Somerset to 95th Street (Leawood Residents)

Help that couch, oven or other furniture or appliance find a new home and avoid ending up in the landfill!

Here’s how:
• Put eligible items out no earlier than Friday, June 6. Do not leave anything out that you do not want taken, i.e., bikes, grills, toys, lawn mowers, etc.
• If inclement weather is forecasted, please cover items with plastic or hold for a future date.
• Eligible items that are not recirculated will be picked up by Town & Country Disposal, in cooperation with the City of Leawood, starting at noon on Sunday, June 8.
• This event is for items that can be reused/recycled. It is NOT a trash pick-up day. Any non-eligible items placed curbside will not be picked up and will be subject to fines per code violation.

If there are any issues following the pick-up date, report them by Wednesday, June 11, to Brian Anderson, Parks Superintendent: 913.339.6700 x 190 or briana@leawood.org.
If you are not able to participate on this date and would like to donate items in good condition, please contact Heartland Habitat ReStore at 913.648.6001.

~ ELIGIBLE ITEMS ~

<table>
<thead>
<tr>
<th>Furniture (excluding mattresses)</th>
<th>Large &amp; Small Appliances</th>
<th>Stereo Equipment &amp; Electronics without Monitors</th>
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ITEMS NOT ELIGIBLE
• All Liquids and Hazardous Wastes*
• All Electronics with Monitors (TVs, Computers, etc.)
• Clothes
• Tires, Automotive Parts

* Please call Johnson County Hazardous Waste at 913.715.6900 to arrange disposal of these items.

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reuse. reduce. recycle. growing green together
SUSTAINABILITY ADVISORY BOARD

LARGE ITEM RECYCULATION DAY

Saturday, September 20, 2014
95th Street to I-435 (Leawood Residents)

Help that couch, oven or other furniture or appliance find a new home and avoid ending up in the landfill!

Here’s how:
• Put eligible items out no earlier than Friday, September 19. Do not leave anything out that you do not want taken, i.e., bikes, grills, toys, lawn mowers, etc.
• If inclement weather is forecasted, please cover items with plastic or hold for a future date.
• Eligible items that are not recirculated will be picked up by Town & Country Disposal, in cooperation with the City of Leawood, starting at noon on Sunday, September 21.
• This event is for items that can be reused/recycled. It is NOT a trash pick-up day. Any non-eligible items placed curbside will not be picked up and will be subject to fines per code violation.

If there are any issues following the pick-up date, report them by Wednesday, September 24, to Brian Anderson, Parks Superintendent: 913.339.6700 x 190 or briana@leawood.org.
If you are not able to participate on this date and would like to donate items in good condition, please contact Heartland Habitat ReStore at 913.648.6001.

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SUSTAINABILITY ADVISORY BOARD
You don’t have to wait for Large Item Pickup Days
To donate your new & used Building Materials, Hardware, Appliances, Furniture and more

Call (913) 648-6001
Monday thru Friday
9:00 to 5:00

to arrange a pickup.

www.heartlandhabitat.org
GREEN MOBILITY

Bike-Ped Master Plan

BRIAN ANDERSON
Leawood Parks Superintendent
WHAT WILL THE BIKE-PED MASTER PLAN DO?

- Create more “complete streets”.

**Complete Streets:**
- Are for everyone – walkers, cyclists, elderly, children *and motorists*.
- Make it easy to cross the street, walk to shops, and bicycle to work.
- Slows traffic down or increases traffic flow where needed.

- Recommend a cycling network to guide users to their destinations safely and efficiently.
- Inventory our existing sidewalk system with a focus on ‘walkability’ and safe intersections.
WHY DO THIS?

- Provide Transportation Options
- Improve Safety
- Lessen Congestion
- Promote Health
TRANSPORTATION OPTIONS

There is **HUGE** Potential for ALL Trips:

- 39% Are less than 3 miles
- 17% Are less than 1 mile
- 47% of these trips are driven
IMPROVE SAFETY

- More than 40% of pedestrian deaths occurred where no crosswalk was available.

- You are more likely to be killed walking than driving a car.

- National surveys show that cyclists use infrastructure when it’s provided.
10% - 14% of morning traffic is school trips

- 6 Schools Celebrated International Walk/Bike to School Day in 2013
  - Brookwood Elementary - 349 students out of 369 participated
  - Corinth Elementary - 250 students
  - Cure of Ars - 302 students
  - Leawood Middle - 158 students
  - Mission Trail - 120 students
  - Nativity - 98 students

School officials saw a significant decrease in traffic!
The average person loses 13 lbs in year 1 when commuting via bike, 3X per week.

Cycling 3 hrs/week can reduce risk of heart attack or stroke by 50%.

Adolescents who bike are 48% less likely to be overweight as adults.
WHERE ARE WE IN THE PROCESS

- Formed a Citizen Steering Committee.
- RDG Planning & Design consultants engaged.
- Held 3 design studios for public input.
- Created an online survey at activeleawood.com for citizen feedback.
- Biked every city street to determine the best biking streets & trails.
- Inventoried and rated our sidewalks & trails making note of needed maintenance, ‘gaps’ in connectivity and ADA compliance.
Walkability Score ~ for Pedestrians

Convenience to services

source: walkscore.com
Conditions

Example Snapshot
Between Roe and Mission Street
From 127th to 135th Street

North
Overall
Network Concept ~ for our cyclists

Detailed Network Subareas
Signage

Identifying Wayfinders

- TO Ranchmart
- TO Ironwood Park
- TO Nall Avenue
- TO Indian Creek Tr

Directional Blades

- 🚴 Nall Ave 0.5
- 🚴 Tomahawk Crk Tr 2.5
- 🚴 City Hall 1.0
- 🚴 City Park 1.5
- 🚴 119th St 3.0
- 🚴 Gezer Park 1.0

System Mark

- 🔄 L

Traffic Advisories

- 🚴 Bicycle Warning
LEAWOOD BICYCLE & PEDESTRIAN MASTER PLAN

VISIT OUR BOOTH !!!
GREEN MOBILITY

Parks & Recreation Master Plan

CHRIS CLAXTON
Leawood Director of Parks & Recreation
Revised Master Plan
Parks & Recreation

- Last plan was completed in 1991 – Population 20,615
  Population Today 32,000

- To be proactive in determining how to best meet the future needs of its residents through potential enhancements to existing parks, and the development of newly acquired land, as well as land owned by the city that could be repurposed.

- Phase I – Analysis of existing Parks, Trails, and Greenway *(type, condition, etc.)*
- Phase II – Review findings of Phase I to determine potential projects.
- Phase III – Prioritize projects and consider financing options.

The Master Plan will coordinate findings in the Bike/Pedestrian Plan so that there is cohesion between initiatives that relate to Green Mobility.
GREEN MOBILITY

Creating Sustainable Places
135th Street Corridor Study

RICHARD COLEMAN
Leawood Director of Community Development
VIBRANT places provide easy access to jobs and services; offer housing, recreation, shopping and transportation choices; foster connections between neighbors and social engagement; and promote access to arts and culture. Vibrant places make efficient use of public and private assets and resources and are attractive to residents and businesses, not just today and tomorrow, but over the long haul.

CONNECTED places are linked by corridors that provide transportation choices, accommodating walking, biking and public transportation as well as the automobile. These corridors attract development and help connect residents to jobs and services.

GREEN places create real economic, social and environmental value for residents, businesses and communities. The conservation, restoration and addition of important green places creates a positive impact on our natural world while creating places that promote healthy lifestyles and healthy residents.
135th Street Community Plan

Map showing the area bounded by Nall Avenue, Roe Avenue, Mission Road, 135th Street, 133rd Street, and State Line Road.
COMMUNITY ENGAGEMENT

- mindmixer Web Page
- Media Articles
- Public Meetings
  - August 22, 2013
  - September 18, 2013
  - October 18, 2013
- Talking with people, one-on-one.
N O D E S  – N O T  S T R I P  C E N T E R S

Figure 5.3: The Nodal Model

Access is Key
This approach helps direct a development by identifying locations for intense development that can be accessed by all modes of transportation in the future.

Retail Follows Retail
By concentrating development (and density) in nodes (rather than dispersed project by project across the corridor), we increase the odds of success.

Walkability Drives Success
By clustering retail in key locations (at or near major intersections) we can create “park once” districts where someone can easily reach a wide variety of services.

Only Park Once
Providing a worry-free environment for visitors is important to the success of the node. The strategic placement of parking allows people to park once and spend the rest of their time walking around the node and activating the district.

Form Pleases the Eye
At the end of the day, a better urban form creates aesthetically pleasing areas within the community. Gradual transitions from a variety of building heights and well-defined streetscapes provide that form.

Nodes are built surrounding the intersection of two “Destination Streets.” These streets are highly accessible by all modes of transportation, provide on-street parking for drivers, are adjacent to local bike and transit routes, and provide wide, highly amenitized sidewalks for pedestrians.

Each node in the 13th Street community should be a mixed-use district with a focus on retail, dining, and entertainment. These types of uses build activity in the nodes, spurring interest in these areas as places to live and stimulating adjacent developments.

Nodes are walkable districts with high-quality landscaping, significant tree canopy, wide sidewalks, and plenty of seating areas for pedestrians to meet, rest, or watch the action take place in the community. The clustering of retail, entertainment, and dining in these areas creates a variety of options for residents and visitors to engage in activity.

The nodal model provides options for both parking structures and on-street parking to allow visitors to park once and enjoy their day in the district. By placing parking structures in and near the central core of the development, vertical efficiency will be maximized.

A gradual transition of building heights, high-quality materials and landscape, and tree-lined streets combine to create a visually pleasing and engaging environment for drivers, bikers, transit riders and pedestrians in the district.
STREETSCAPES

- **Destination Streets.** Commercial streets with hardscape.
  
  Example: Ash Street in Park Place.

- **Active Pedestrian Streets.** These streets would typically have a median, two lanes each direction and wide sidewalks.

- **Neighborhood Streets.** These streets typically have two lanes and serve primary residential neighborhoods.
TRANSITIONAL DEVELOPMENT
CONSERVATION

Justice Center Efficiency

Residential/HOA Energy Audits

Lights/Curbs/Sidewalks/Streets

Water
INCREASED INSULATION

ROOF: 24 (min.)

WALLS: 22 (min.)
EMERGENCY GENERATORS
Sustainable

Capable of being continued with minimal long-term effect on the environment

GEOTHERMAL SYSTEM
EFFICIENT LIGHTING AND CONTROLS
- Runoff from parking filtered:
  1. Rain Gardens
  2. Detention Basin
  3. Underground Filters
- Increased percolation
- Landscaped natural environment
CONSERVATION
Residential/HOA Energy Audits

MARY ENGLISH
President
Small Step Energy Solutions, LLC
Converting Your House ... into A Home

How Residential Energy Assessments Lead to Increasing Comfort and Peace of Mind
The way a house “lives and breathes”
Testing for Leaks
Example:

Bonus Rooms Over Garages:

Common Issues:

- No blocking between “attic” space over garage and conditioned space.

- R19 batt in a cavity that should get an R30.
DIY: Rim Joist
Energy Retrofit:

- Air leakage (comfort, affordability, health).
- Insulation (comfort, affordability).
- Ductwork (comfort, health, affordability)
- HVAC (affordability, health- Test, test, test!).

To a Lesser Extent:
  - Windows and Doors. (comfort, durability)
CONSERVATION

Lights!
Streets and Curbs!
Sidewalks!

JOE JOHNSON
Leawood Director of Public Works
Purchased street lights from KCP&L resulting in annual savings of about $300,000!

Pilot project plan to evaluate LED streetlights.
- 114th Street between 115th and Tomahawk Creek Parkway.
- Evaluate savings at year end.
- Based on savings from the pilot, and costs, a replacement plan will be created.

Improvements to 143rd street in 2015 will include the installation of LED streetlights.
STREETS

- **2014 STREET PROGRAMS**
  - Residential Re-Construction Program
  - Residential Mill and Overlay Program
  - Arterial Mill and Overlay Program
  - Curb Replacement Program

- **143rd STREET WIDENING – NALL TO WINDSOR**
  - Improving to 4-lane undivided street.
  - Will include sidewalks on the south side, pedestrian path on the north side and bike lanes on the road.
  - Improvements to begin in 2015 and finish in 2016.
Last year, a 4 year, $20 million curb replacement program began.

Why? The rock used to make concrete was not durable.

In the past the City “spot repaired” the curbs.
   - The problem - year-after-year fixing the curbs in the same area, or waiting until streets were overlaid.
   - The result - reduced number of streets overlaid.

This 4 year curb replacement program will allow the city to proactively replace all curbs.
   - The result - more cost efficiency by doing long stretches vs. jumping around fixing isolated areas.

New curb life ~ 70 plus years!
SIDEWALKS

- Per Ordinance: Sidewalk maintenance is the responsibility of the abutting property owner.

- The City maintains a list of addresses from residents calling in for repairs.

- Sidewalk repairs are based on funding & work schedules.

- The City has the following priority for repairing sidewalks:
  - Adjacent to City Property
  - Adjacent to a storm sewer structure or over a culvert
  - All other locations

- In 2013 - City contracted removal of tripping hazards by cutting the sidewalk edge with a saw, leaving a smooth appearance that meets ADA requirements. This continues in 2014 allowing more sidewalks to be addressed.
CONSERVATION

Water!

JULIE CAIN
Co-chair SAB, Council Member Ward 4
Inlets lead to our creeks and streams.

They are NOT for anything other than stormwater.

NO: grass clippings
    leaves
    crabapples
    dog waste ...
    or Jayhawks!

PLEASE help keep our Blue River Watershed as clean as possible. We are ALL connected.
STREET SWEEPING PROGRAM

- Swept over 3,500 miles of curbs collecting over 1,025 tons of debris off the street.

- Collected 238 cubic yards of leaves that were recycled for compost through a local landscape company.

- Televised over 30,900 feet of storm sewer and inspected 108 outfalls for illicit discharges.
SAVING WATER IN THE PARKS

Reduce

- 14 irrigation systems, using rain sensors, weather stations and computer software to reduce evaporation losses.
- Separate irrigation zones between lawn and landscape plants for zone watering.

Reuse

- Irrigation water is pumped from Indian Creek to water fields vs. treated water.
- 140 million gallons of creek water has been used to water soccer fields and traffic islands saving $700,000.

Conserve

- Use solar power controllers vs. electric service.
- Rain gardens to capture and release water, providing a beautiful earthscape for visitors to enjoy.
Ironhorse Golf Course has achieved designation as a “Certified Audubon Cooperative Sanctuary” through the Audubon Cooperative Sanctuary Program for Golf Courses.

Ironhorse is the 9th golf course in Kansas and the 884th in the world to receive this designation.

To achieve certification, a course must demonstrate a high degree of environmental quality including:

- Environmental Planning
- Wildlife and Habitat Management
- Outreach Education
- Chemical Use Reduction and Safety
- Water Quality Management
- Water Conservation

Since Ironhorse opened in 1994, an average of 9 million gallons of water has been saved annually by using water from the Blue River and/or reclaiming effluent water from the JoCo Waste Water Plant!
BEST MANAGEMENT PRACTICES (BMP)

a.k.a. ‘Catch and Release’

Matching $$
up to $1,000

For HOAs, Commercial, Residential Rain Barrels and Rain Gardens

(Check Leawood Ordinances)
RAFFLE & WRAP UP

CHRIS SCHULTZ and JULIE CAIN
TOGETHER WE CAN DO MORE

Please help spread the word about these upcoming sustainability events to the members of your homeowners association.

KEY DATES

✓ **April 19** - Backyard Composting, 1:00-2:30 pm at the Prairie Oak Nature Center in Ironwoods Park, 14701 Mission Road. Fee $6/Resident Discounted Fee $5.

✓ **March 30** - Spring Tomahawk Trail Clean-Up, 2:00-5:00 pm at Tomahawk Park, 119th & Mission Road.

✓ **May 3** - Overland Park Recycling Extravaganza, 8:00 am-2:00 pm at 6800 W. 95th Street. Make plans to recycle just about anything you can, from electronics to books, shoes, bikes, building materials, and more.

✓ **May 7** - Walk/Bike to School Day.

✓ **June 7** - Large Item Recirculation Day for Leawood Residents from Somerset to 95th Street.

✓ **September 20** - Large Item Recirculation Day for Leawood Residents from 95th Street to I-435.

✓ **October 8** - International Walk/Bike to School Day.

**Sustainability Advisory Board Mission**
To lead, motivate and collaborate with Leawood citizens to increase recycling, encourage conservation and promote green mobility options in the City of Leawood.

**Learn More**
leawood.org/sustainability
THANK YOU FOR COMING
SURVEY TO FOLLOW
City of Leawood

Leawood Community Development

135th Street Corridor

Leawood Cultural Arts

The Leawood Foundation

Leawood Information Services

HOA Lookup/Update

Leawood Parks & Recreation

Rain Gardens & Urban Forestry

Bicycle Friendly Committee

Leawood Public Works

Good Energy Solutions, Inc.