

Curry's Fork Technical Committee

Meeting Notes

July 22nd, 2009 9:30 – 11:30 am
Oldham County Fiscal Court Building

- I. **Introduction and Welcome** (Paul Maron)
- II. **Wastewater Improvements** (Rob Nichols)
 - Veolia reviewed plans for the improvement of the existing infrastructure. An estimated \$1.6 million dollars is budgeted for immediate repairs. The top five priority projects are the elimination of the Green Valley, Buckner, Ash Avenue, Willow Creek and Orchard Grass treatment plants.
- III. **Stormwater Management** (Tim Tyree)
 - The MS4 program utilizes best management practices to meet EPA's six permit criteria; **education and public participation, illicit discharge; construction and post construction runoff, and good housekeeping / pollution prevention.** Flyers and facts sheets are handed out during public events along with news articles in both the Courier-Journal and Oldham Era newspapers as well as the local government channel on cable television to inform the public on water quality issues. The storm water infrastructure is being mapped and inventoried to create maintenance schedules for needed repairs.
- IV. **Outreach/Communication** (Beth Stuber and Andrea Rogers)
 - Roundtable is planned for Sept 24, 2009 at the John Black Center. The target audience is anyone who works, lives and plays in Curry's Fork. A postcard invitation is to be sent to all residents inside the watershed boundaries. Flyers and posters will be distributed throughout the community at the Library, Fiscal Courthouse, and YMCA.
 - The website has been designed and constructed. Throughout the life of the project the website will be enhanced with grant activities and projects.
- V. **Waste Management and Recycling Programs** (Linda Fountain)
 - The waste management and recycle programs provide Oldham County numerous ways to dispose of their waste responsibly. Highlights of the program include an After-Christmas two day drop off for electronics and computers, regular e-recycling days, and household hazardous waste collection days.
- VI. **County Ordinances affecting the Watershed** (Louis Allen)

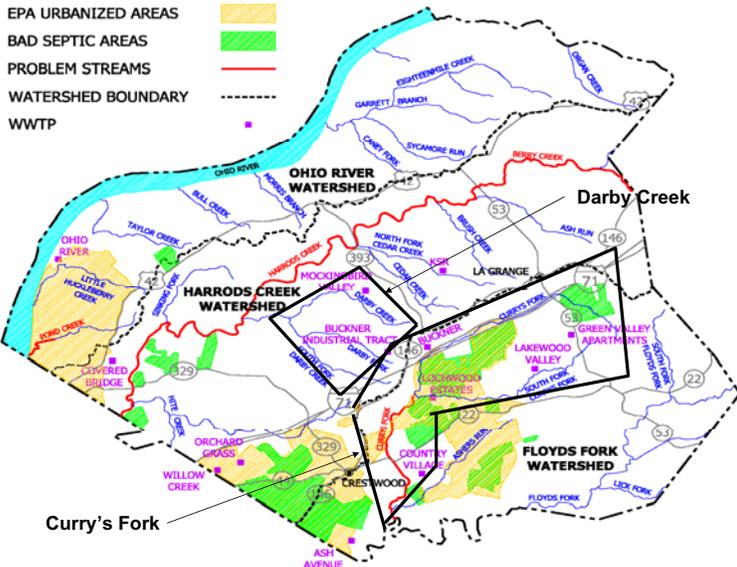
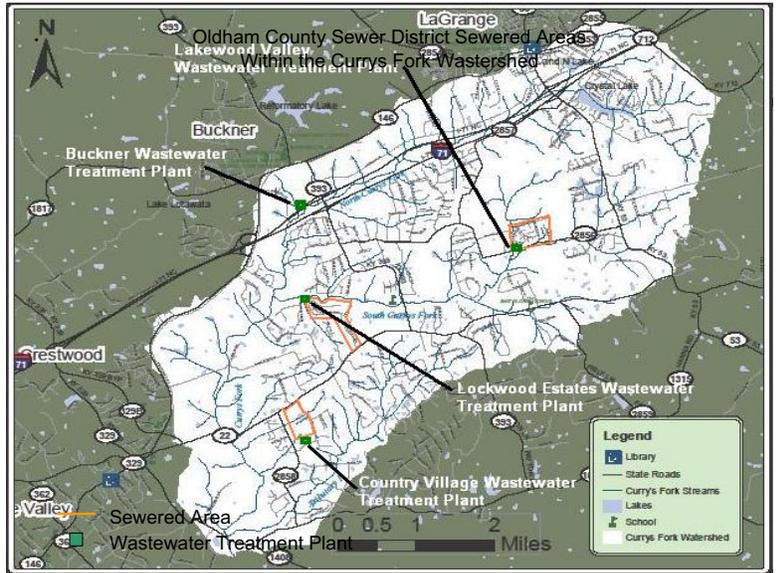
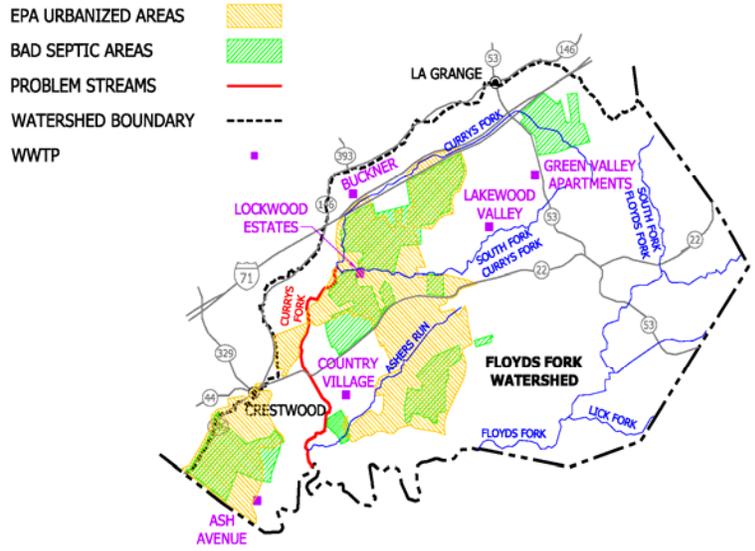
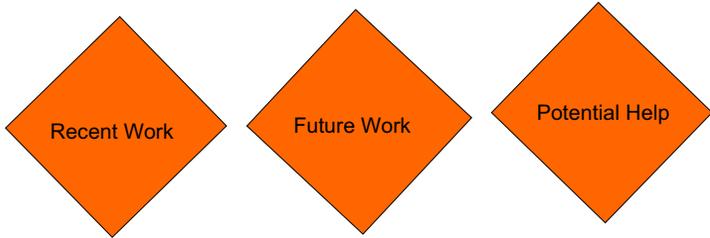
- Wastewater Capacity Ordinance stipulates all new subdivisions complete a request form and if necessary mitigate capacity constraints.
- Flood Plain Ordinance. In 2007, the base flood elevation was raised by 2'. If the development is greater than 50 lots or greater than 5 acre plots, the Developer must establish flood elevations. A flood study is needed in Curry's Fork. Oldham County has a no disturb zone 25' from top of bank.
- Impervious surface. The maximum impervious in a commercial zone is 60%. If greater than 60%, the county can offer incentives for rain gardens, pervious concrete, etc. to offset the difference.



**OLDHAM COUNTY
SEWER DISTRICT**
KENTUCKY

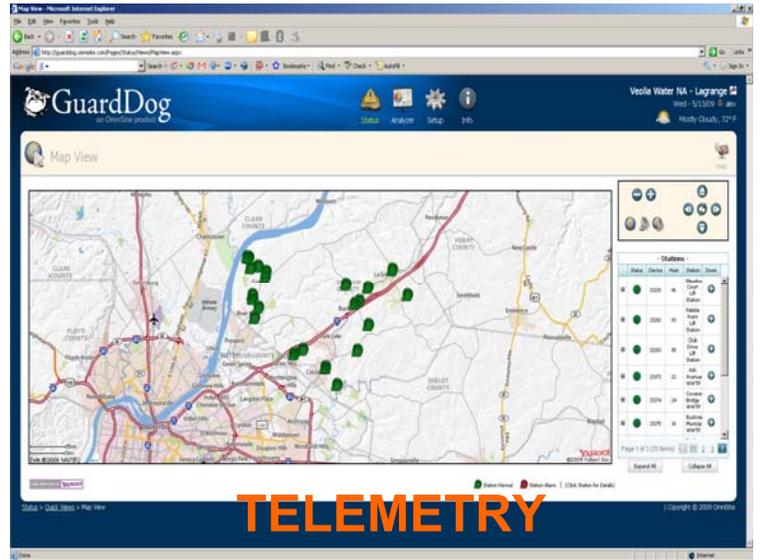
UNDER CONSTRUCTION

Topics

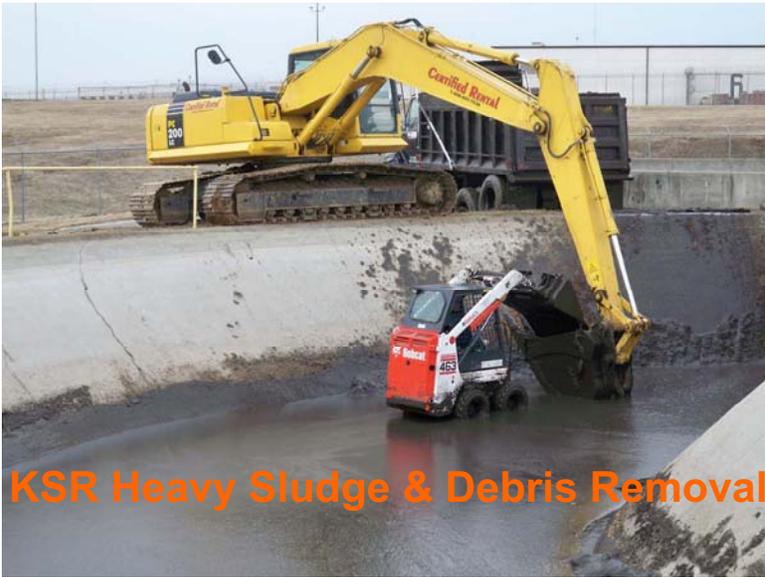




**Stopping Odors
Orchard Grass Air Line Replacement**



TELEMETRY



KSR Heavy Sludge & Debris Removal



** Surcharged = backfilled but not overflowing through cover



Willow Creek Lagoon Dredging

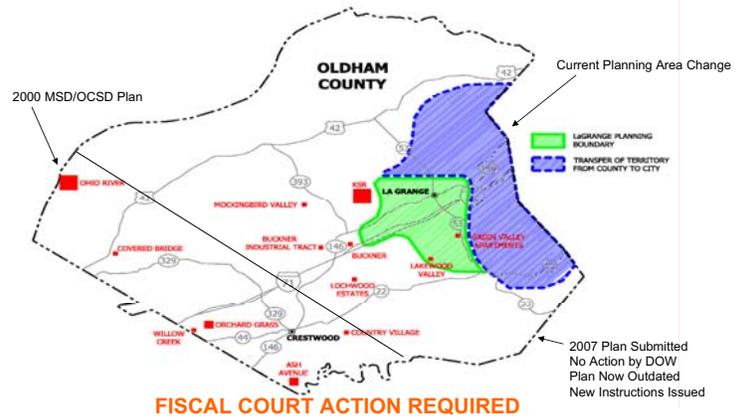


Letting 25,000 GPD of Near By Creek Enter System

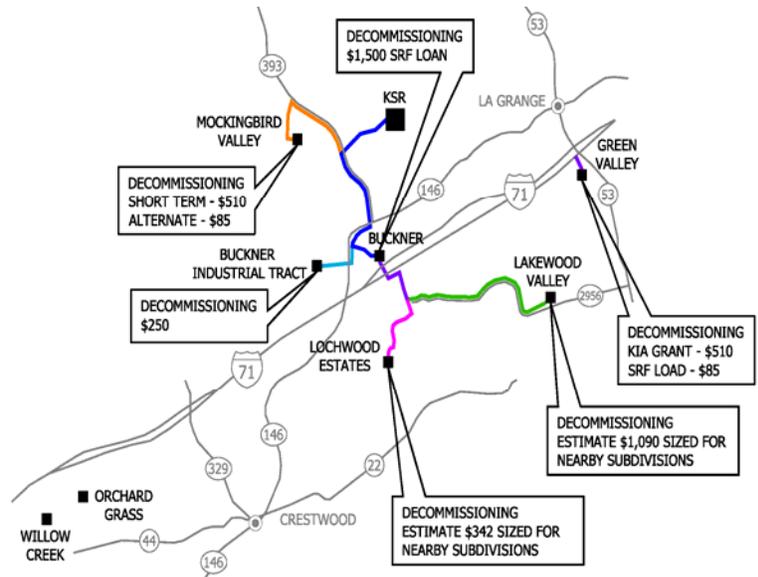
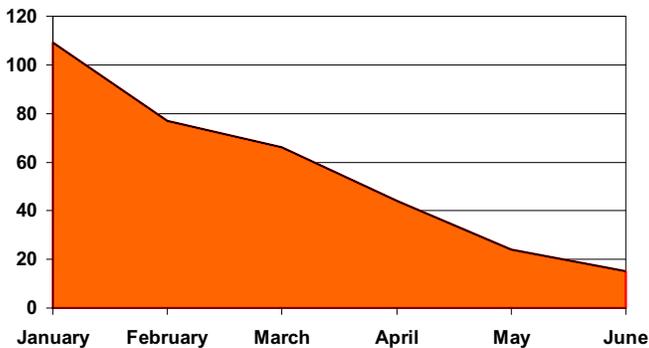
Infiltration and Inflow Hunt



Green Valley Decommissioning Territory Change Required



Violations Going Down



Sewer Use Ordinance

- EPA and DOW Required Document
- Regulates Customer Use of Sewer
 - Service Connection Points
 - Type of Waste to Discharge
- Determines Who Has to Use Sewer

FISCAL COURT ACTION REQUIRED

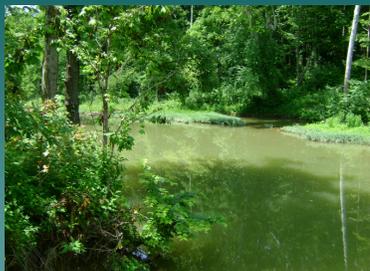
Suggestions

- Research & ID Problems - # Failing Septic Tanks in Which Neighborhood
- 60% Say No Relationship Between Septic & Stream Quality – Education Needed
 - Newspaper, Direct Mail & Meetings
- Economy Makes Solutions Difficult
- Clear Cost of Solution to Determine How to Sell
 - Extend Sewers to Eliminate Septic Tanks
 - Preliminary Cost Estimates & Funding Options
 - Project Rates and Gauge Customer Buy In
 - Alternative Septic Management Options to Improve Existing Septic Performance
 - Management Plan Escalating from Permitting to Monitoring to Total Control

Summary

- District Improving Compliance in Study Areas
- Future Plans Remove Plants from Study Areas
- Resolving Septic Issues Requires Study & Financial Projection

OLDHAM COUNTY STORM WATER MANAGEMENT DISTRICT



MS4 STORM WATER PROGRAM

MS4 PROGRAM REQUIREMENTS

Minimum Requirements

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection & Elimination

MS4 PROGRAM REQUIREMENTS

Minimum Requirements (continued)

4. Construction Site Storm Water Runoff Control
5. Post-Construction Storm Water Management in New Development and Redevelopment
6. Pollution Prevention/Good Housekeeping for Municipal Operations

MS4 STORM WATER PROGRAM

Public Education and Outreach

Website development

Develop Brochures and Fact Sheets – distribute during events and at government and business offices.

Utilize government television channel to promote storm water awareness and upcoming events.

Utilize newspaper and media to help spread the word.

MS4 STORM WATER PROGRAM

Public Involvement and Participation

Electronic Recycling Drop Off – Distribute flyers to citizens dropping off electronic items for recycling.

Rain Garden Seminars – coordinate with other agencies, and contractors to put on or assist with their programs highlighting the rain garden programs.

Rain Barrel Workshops – Develop a build your own rain barrel workshop.

MS4 STORM WATER PROGRAM

Public Involvement and Participation

Mark storm drains **"NO DUMPING – DRAINS TO STREAM"**

Develop and coordinate with school and other civic programs to develop educational opportunities for young people to get involved with programs i.e. Classes, cleanups, opportunities to explore environmental careers.

Set up and distribute educational information at home and garden shows, festivals and other community events.

MS4 STORM WATER PROGRAM

Public Involvement and Participation

Coordinate with other departments and agencies on cleanup projects throughout the community – Ohio River Sweep, stream and roadside litter cleanups.

MS4 STORM WATER PROGRAM

Illicit Discharge Detection & Elimination

Develop and implement an illicit discharge detection and elimination program.

Utilizing GIS and GPS technologies develop a storm sewer system map, showing the location of all outfalls and the names and locations of the waterways.

Through an existing ordinance, a prohibit on non-storm water discharges into the MS4 and appropriate enforcement procedures and actions.

Education of public employees, businesses, and the general public about the hazards associated with illegal discharges and improper disposal of waste.

MS4 STORM WATER PROGRAM

Illicit Discharge Detection & Elimination

Develop commercial business inspection program.

Established 565-1010 as the "HOT LINE" to report illicit discharges or dumping of wastes into the storm water systems.

MS4 STORM WATER PROGRAM

Construction Site Storm Water Runoff Control

Existing ordinance requiring the implementation of proper erosion and sediment controls, and controls for other wastes, on construction sites.

Site plan review of construction plans that consider potential water quality impacts to include standard and specifications.

Site inspection and enforcement of control measures.

MS4 STORM WATER PROGRAM

Construction Site Storm Water Runoff Control

Develop and establish procedures for service request monitoring system for inspection staff.

Develop tracking of development to include construction, inspection, compliance and enforcement on projects.

Develop education or certification program for developers and contractors to ensure that their staff understands effective erosion control protection on the job site.

Develop a BMP Award to highlight developers how are on track and maintaining their properties.

MS4 STORM WATER PROGRAM

Post-Construction Storm Water Management in New Development and Redevelopment

Utilize existing Post-Construction Ordinance to address post-construction runoff from new development or redevelopment projects.

Develop and implement programs using structural and non-structural BMP's to improve water quality.

Establish appropriate long-term maintenance and operation of the BMP's.

MS4 STORM WATER PROGRAM

Pollution Prevention/Good Housekeeping for Municipal Operations

Develop infrastructure inventory (from GIS data) and setup a maintenance schedule to address needed repair or replacement.

Develop and implement an operation and maintenance program with the ultimate goal of reducing or preventing pollutant runoff from municipal operations into the storm sewer system.

MS4 STORM WATER PROGRAM

Pollution Prevention/Good Housekeeping for Municipal Operations

Develop and implement a training program for road and operations staff, parks and maintenance staff. Targeting good housekeeping and pollution reduction/prevention techniques focusing on fleet, equipment and building maintenance, parks and open space maintenance, new construction or land disturbances, storm water infrastructure maintenance.

MS4 STORM WATER PROGRAM

MS4 Program Review

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection & Elimination
4. Construction Site Storm Water Runoff Control
5. Post-Construction Storm Water Management in New Development and Redevelopment
6. Pollution Prevention/Good Housekeeping for Municipal Operations

Wastewater Treatment Capacity Ordinance

- Major Element: Adequate Wastewater Treatment Capacity shall be considered during the approval process for new developments
 - PART ONE: An amendment to the Oldham County Zoning Ordinance
 - PART TWO: An amendment to the Oldham County Subdivision Regulations

Wastewater Treatment Capacity Ordinance

- Section 1: Purpose
- Section 2: Wastewater Treatment Facility and Capacity Consideration
- Section 3: Wastewater Treatment Capacity Defined
- Section 4: Criteria
- Section 5: Mitigation

Section 1: Purpose

- To ensure that, to the maximum extent practical, approval of new developments will be granted only when it can reasonable be expected that adequate wastewater treatment capacity will be available to accommodate new developments.

Section 3: Wastewater Treatment Capacity Defined

- Wastewater treat capacity shall be quantified (Wastewater Treatment Plant Capacity Information Form).
- Average Daily Flows:
 - Existing (24 months weighted average)
 - Approved
 - Proposed
- Calculating wastewater flow generated by an approved or proposed development: 400 gallons per day per housing unit or a number established by the applicable sanitary sewer service provider and approved by the Planning and Zoning Commission.

Section 4: Criteria

- Under sanction or has a sanction action pending
- Notice of Violation
- Combined Existing, Approved, and Proposed Average Daily Flow exceeds 100%

Section 5: Mitigation

- Under Sanction: Sanction does not apply to the proposed project
- Exceeds 100% capacity:
 - Plans and funding are in place
 - Preliminary approval by DOW (wasteload allocation)
 - Construction of a new facility or improvement to an existing facility will be completed within 2 years of approval or shall correspond with phasing schedule.
 - New or increased capacity will be sufficient

Floodplain Ordinance

- Special Flood Hazard Areas (September 20, 2006)
- Residential Construction (lowest floor 2 feet above the Base Flood Elevation)
- VEGETATIVE BUFFER STRIPS in the floodplain (25 feet from bank)
- New Subdivision proposals within Floodplain must establish BFE and identify flood hazard areas (greater than 50 lots or 5 acres, whichever is less)

Subdivision Regulations

- Protects steep slopes (over 20 percent) of at least 5,000 square feet
- 100 yr floodplain
- Areas of poor soils
- Commission may require a comprehensive and detailed environmental analysis study prepared by qualified professionals.