

PHASE II STORMWATER MS4 GENERAL
PERMIT ANNUAL COMPLIANCE REPORT

ASHLAND/BOYD
COUNTY

•
2016 ANNUAL
COMPLIANCE
REPORT



Permitee: City of Ashland

Co-Permittees: City of Catlettsburg
Boyd County Fiscal Court

March 2017

Submittal by:

Mr. Marion Russell

mrussell@ashlandky.org

www.ashlandky.org

Director of Public Services 1700

Greenup Avenue

Ashland, KY 41105

Phone: 606/327-2007

KDOW AI#6690

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Public Works

Post Office Box 1839
Ashland, Kentucky 41105-1839

Phone: (606) 327-2007
Fax: (606) 327-2060

March 31, 2017

Ms. Abigail Rains, MS4 Coordinator
Kentucky Division of Water, KPDES Branch
200 Fair Oaks Lane
Frankfort, Kentucky 40601

**Re: Ashland/Boyd County 2016 Annual Compliance Report
General Permit No. KYG200002/AI#6690**

Dear Ms. Rains:

Transmitted herewith is our Phase II Stormwater 2016 Annual Compliance Report for Ashland, Catlettsburg and Boyd County (MS4 Group). We are pleased to submit this report for your review and comment.

In 2016 the MS4 Group continued to work together in carrying out various activities and best management practices to educate and involve the general public on storm water pollution prevention practices to improve and maintain water quality in our local streams and rivers. Through our partnerships and capital improvements Ashland, Boyd County, and Catlettsburg are improving water quality in our local streams and rivers.

The MS4 Group continued its partnership with UK Department of Horticulture - Boyd County Extension Office. Educational activities for the storm water program included storm water planning, rain barrel program, use of native plants in landscaping, lawn care issues and horticulture field day. These activities involved the participation of over 300 citizens.

In the fall of 2016 design was completed on the "Ashland 29th Street Storm Water Separation" project. This major capital improvement project will eliminate combined sewer overflows through the separation of storm and sanitary sewers facilities. Construction is scheduled to begin in spring 2017.

In 2017 we continue our SWAC meetings and ongoing partnerships to involve the public with various storm water quality initiatives. We remain committed to continuing and implementing activities with our existing resources as outlined in SWQMP for calendar year 2017.

Should you have any questions or need additional information please give me a call at 606/327-2007.

Sincerely,



Marion Russell
Director of Public Works/MS4 Coordinator

Encl: Report (disk and hard copy)

Copy: Nickie Smith, Boyd County Economic Development Director

Kentucky Division of Water

GENERAL PERMIT ANNUAL COMPLIANCE REPORT.

Phase II Stormwater MS4
Kentucky Division of Water

- NOTE:**
- In order to comply with KPDES sMS4 permits, annual reports must be submitted to the Kentucky Division of Water.
 - **Please type or print in ink.**
 - Please answer all questions **thoroughly** and return the form by the due date.
 - Return this form and any required addenda to the KDW MS4 Coordinator at the address listed in the box on the upper-right.
 - **Due April 15, 2017.**

For questions regarding this form, contact:

Abigail Rains
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water
300 Sower Boulevard, 3rd Floor
Frankfort, KY 40601
Phone: (502) 782-7044

REPORTING YEAR (Check one)
<input type="checkbox"/> 2015
<input type="checkbox"/> 2016
<input checked="" type="checkbox"/> 2017

PART A: GENERAL INFORMATION – MS4 OPERATOR

1. Report Completed By:	Marion Russell, City of Ashland <small>(MS4 Operator — i.e., name of permit holder)</small>											
2. Permit Number:	<table border="1" style="border-collapse: collapse; width: 100px;"> <tr><td style="text-align: center;">K</td><td style="text-align: center;">Y</td><td style="text-align: center;">G</td><td style="text-align: center;">2</td><td style="text-align: center;">0</td><td style="text-align: center;">0</td><td style="text-align: center;">0</td><td style="text-align: center;">0</td><td style="text-align: center;">2</td></tr> </table>	K	Y	G	2	0	0	0	0	2	AI # 6690	4. Population
K	Y	G	2	0	0	0	0	2				
			Urbanized Area —42,000 City of Ashland – 21,700									
5. Mailing Address:	P.O. Box 1839 Street Address: 1700 Greenup Avenue											
<input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Other	Of: Ashland, Kentucky	Zip: 41105-1839	County: Boyd									

PART B: GENERAL INFORMATION – CONTACT PERSON

6. Contact Person Name (please print):	Marion Russell
7. Contact Person Title:	Director of Public Works
8. Phone Number:	606-327-2007
9. Facsimile Number (if applicable):	606-327-2060
10. E-mail Address (if applicable):	mrussell@ashlandky.org

PART C: CONTROL MEASURE ACTIVITIES

11. For the following items, please provide a summary of control measure activities related to SMS4 performed during the previous year. List any updated measurable goals from the Stormwater Quality Management Plan (SWQMP), compliance activities, Best Management Practices (BMP) installed or initiated, and updated or developed regulatory mechanisms with effective dates.

A. Public Education and Outreach:

Describe your public education/outreach efforts during 2016:

1. KYTC Outreach Program

The City of Ashland developed a new website including under the Department of Public Works, the City's Phase II MS4 Storm Water Program. Information such as the history of the program, narrative of the six(6) minimum control measures, who to contact to get involved, and who to contact to report an illicit discharge. PDFs of the three storm water related ordinances (Erosion and Sediment Control, Illicit Discharge and Post-Construction), BMP Manual and previous compliance reports are provided on the website. Boyd County Fiscal Court continues to update and maintain their MS4 program activities on their website.

KYTC with our MS4 and partner communities utilize several approaches to public education. The most pronounced is a mass media play via radio and television. We also utilize a website tied in with the radio and television spots. KYTC in a combined effort with the MS4 communities manage the Adopt-A-Highway program. KYTC also utilizes our Kentucky Engineers Exposure Network (KEEN) to promote stormwater issues in community schools. During 2016 KYTC is conducting a Statewide Stormwater Survey. This survey is a follow-up to the survey conducted in 2008.

The KYTC Media Outreach Program (MOP), in conjunction with our partner MS4 communities, contracted with the Kentucky Broadcasters Association (KBA) to air a video spot and six audio spots in 2016. The 30 second spots have been aired statewide as a public education initiative to inform the general population about stormwater issues. The ads messages were developed after the statewide survey conducted in 2008 identified that half of the population is unaware that storm drains discharge directly to waters of the Commonwealth without treatment. The ads can be viewed on stormwater.ky.gov. The TV and radio plays combined totaled 83,359 plays statewide in 2015 for a total value of \$1,551,493.

KYTC initiated a committee of five MS4 representatives and the DOW representative in 2009 to work with our consultant, New West, to develop the ads. The members are Abby Rains – DOW, Suzie Bradley – Campbellsville, Randy Stambaugh – MSD, Vicki Brackett – Hardin County, Jamie Holtzapfel – SD1 and Jack Wright – Plum Springs Warren County Joint Storm Water Sewer Agency. A mix of general information and specific item ads were developed. The resulting work of the committee was the six audio spots and the one video spot. In 2012 the committee was called together again to develop a new TV advertisement for the stormwater program. The new ad began airing in December 2012. KBA distributes the ads to 230 stations in 132 communities. The KBA receives certified reports from the member stations verifying the number of times the spots are played. Since the inception of the Media Outreach Program there have been 526,781 plays for a total value of \$9,879,321.

The 2016 summary of ad play is as follows:

74,721 radio Spots with a value of \$1,129,745
8,638 television plays with a value of \$421,808
TV and radio plays combined totaled 83,359 plays statewide for a total value of \$1,551,493.

A new website URL was secured and a new website prepared to help launch the MOP and provide a statewide resource for the KYTC and our partner MS4 communities to promote stormwater issues. The website was designed to address both the public and those involved with the MS4 program either as a permitted community, construction contractor or KYTC. It provides basic information regarding what is stormwater and stormwater pollution, who to contact if more information is needed or a concern needs to be reported, and technical information for MS4 communities and contractors. The website had 474 visits in 2016 and 2466 page views.

Kentucky has participated in the International Adopt-A-Highway Program since 1988. The Commonwealth has one Statewide Adopt-A-Highway Coordinator in central office and 12 Adopt-A-Highway District Coordinators throughout the state. The Adopt-A-Highway program involves community groups to organize and pick up litter. The Transportation Cabinet participates in Adopt-A-Highway meetings as agreed upon by the Local Community and KYTC. There are 674 groups that manage 1,367 miles of roads throughout the state.

The Members of KYTC's KEEN organization held twenty-one presentations at schools and groups across the state. The presentations included the Enviroscape. Some of the locations were Lexington, Waddy, Frankfort, Glasgow, Bowling Green, Shelbyville, Walton, Cold Spring, Erlanger, Alexandria, Bellevue, Brooksville, Villa Hills, Morehead, Mount Sterling, Carlisle and Owingsville.

2. University of Kentucky Horticulture Extension Outreach Program

Ashland/Boyd County in a combined effort with the University of Kentucky's Horticulture Extension office has hosted several workshops and programs to aid in public participation and outreach.

PART C: CONTROL MEASURE ACTIVITIES

- Stormwater planning meeting – Conducted February 17th 2016 with 3 participants.
- Using Native Plants in the Landscape – This educational program about low maintenance plants demonstrated the importance of native vegetation and its benefits such as low water needs, attraction of wildlife, support of local ecology and no need of pesticides. This program was conducted March 1st, 2016 and received 22 participants.
- WSAZ Home and Garden Show – Participated in handing out informational packets at the February 2016 show. The show ran for 3 days with 12 volunteers handing out information to approximately 15,000 tri-state residents.
- Rain Barrel Workshop - A workshop offering participants the many uses of a rain barrel and the resources and information for making their own. The workshop was held on multiple dates in 2016 including February 27th with 113 participants, March 12th with 50 participants and April 14th with 13 participants.
- Tree Giveaway – This giveaway was co-hosted with Ashland Tree Board in April 2016
- Presentation on drought tolerant/flood tolerant plants – This educational event about plants best suited for rainwater runoff area applications such as rain gardens was conducted on February 20th, 2016 with 26 participants.
- Lawncare issues on clay soil – This program, focusing on means and methods of improved lawn care to reduce runoff and conserve soil and water resources was conducted on March 3rd, 2016 and had 12 participants.
- Horticultural Field Day – An educational session on a variety of horticulture production systems including: high tunnels, small fruits and grapes, biofuels, organic and conventional vegetable production and ornamental horticulture was conducted August 6th, 2016 with 105 present
- Water Sampling – Water sampling was performed on wells by the University of Kentucky on April 5th, 2016. Representatives from the geology department working through a grant program tested well water for chemicals and deposits in the well water. There were 6 present at this event.

3. Public Notice/Advertisements in the Daily Independent

- An article was run in Daily Independent on November 13th and 16th 2016 educating the public on the 2005 ordinances No. 82 and No. 168 prohibiting the disposal practices of rubbish and trash including leaves, grass cutting and other yard waste into the sewer system or any other public place within the city.
- An article was run in Daily Independent on April 20, 2016 describing the City's annual Arbor Day tree giveaway hosted by the Central Park tree board.
- With a circulation of 15,000 to 20,000 the advertisements and public notice runs provided an opportunity to reach 75,000 to 100,000 citizens. See Appendix A for advertisements and public notices.

4. Miscellaneous Activities

- Stormwater management program information provided to staff via emails from KDOW and EPA.
- The storm water management section under the Public Works Department on the Ashland and Boyd County website continues to be a source of information and outreach to the general public on the storm water management program.
- Spring and Fall Cleanup Program – This community and municipality collaborative program allowed citizens to make a visible difference in their community by cleaning-up dumped and washed-up trash.
- Ashland and Boyd County continue to upload current information on the Storm Water Quality Management Program on their websites. The website also includes hyperlinks to public education and participation articles, brochures and best management practices and other user friendly educational material for the citizens of Ashland and Boyd County. This easily accessible information is anticipated to help the community to understand and promote BMPs and to improve the water quality of streams and creeks in the watershed. Ordinances, SWQMP SMOP, Stormwater Quality BMP Manual and KYTC Erosion and Sediment Control Inspector's Guide are also included on the website.
- Water quality brochures – Educational brochures informing customers on the quality of their drinking water are distributed with water bills.
- NPDES Phase II Storm water pamphlets and fliers – Material informing the public of stormwater pollution and prevention is Distributed at the County Fair, Catlettsburg Labor Day Parade, Poage Landing Days, and other public events and civic groups.
- Boyd Co. High School Career Day – Ashland, Boyd County and Catlettsburg maintained its position in the public eye by reserving a booth at the Boyd County High School Career day, providing outreach displays and education to future generations.

PART C: CONTROL MEASURE ACTIVITIES

Are public education/outreach efforts targeted towards a pollutant of concern or local waterbody or a particular segment of the population?

- Public education and outreach is an integral component of stormwater management. We believe an informed public is essential to the success of protecting water resources, which is why we believe in both a broad as well as focused educational outreach. Ashland and Boyd County's education and outreach program not only focuses on educating city and municipal staff and officials but also the public. Ashland and Boyd County's continued partnership with KYTC and The University of Kentucky Horticulture Extension as well as their new innovative website allow them to reach each of these target sectors to provide a variety of education and resources that target pollutants of local concern. These targeted pollutants include trash & illegal burning, stormwater runoff, illicit discharges and commercial/industrial activities.

Describe how or why efforts in meeting the MCM requirements were successful:

- Because Ashland and Boyd County's public outreach education program is partnered with resources that are already focused towards their specific market sector, public outreach education programs were also able to be more focused and catered to these target audiences and reinforced through their own social relevant messages. Each of these public outreach programs, from radio and television to community tailored programs such as the plant a tree program and the spring and fall cleanup, in their own way promoted personal behavior changes that lead to a greater personal responsibility to protect the community and its water resources.

Please attach documentation of any public education/outreach activities held in 2016:

B. Public Involvement and Participation:

Describe any events or activities facilitated by or sponsored by the MS4 in 2016:

1. Stormwater Advisory Committee (SWAC)

The Ashland and Boyd County SWAC is made up of city and county staff, private practitioner, health department representative, general contractor and members of Ashland Community Technical College, FIVCO Area Development District and Chamber of Commerce.

Members (Jim Nichols, Alex Vanderpool, Trisha Leach, Nickie Smith, Lisha Branham, Tim Wallin, Pat Meads, Eddie Peterman, and Bill Halterman) of the SWAC met on February 8th, 2016 to discuss plans to complete the 2015 compliance report, ways in which they could strengthen their partnership and stormwater outreach with the University of Kentucky's Horticulture Extension, and there was discussion on the upcoming state issued permitting process.

2. University of Kentucky Horticulture Extension Outreach Program

Ashland/Boyd County in a combined effort with the University of Kentucky's Horticulture Extension office have hosted several workshops and programs to aid in public participation and outreach as described above in the Public Outreach and Education section. See Item #2 in the previous section on activities performed.

3. Ashland/Boyd County Training

Ashland and Boyd County staff attended some of the training events provided by the KY Horticulture Extension Outreach Program listed in Section A above.

Volunteers handed out informational brochures at the WSAZ Home and Garden Show in February 2016 to approximately 15,000 tri-state residents and participated in the Rainbarrel Workshop that had approx. 113 participants.

4. Ashland Pre-Treatment Program

This program informs the public of requirements for the use of the public sewer system in Ashland, SD No. 4 and Boyd County Sanitation District. Ashland also issues the commercial and industrial permits for use of the sewer system which defines limitation on allowable waste entering the sewer system. The City of Ashland provides water service to all three of our communities.

5. The Ohio River Sweep Program

This program that spans six states and 3,000 miles from Illinois to Pennsylvania was conducted on June 18th, 2016 in Catlettsburg and Ashland. The river sweep site was along Catlettsburg City Park, The Old Boat Landing in South Shore, the riverbank near Riverside Drive in Russell, the Worthington City Park and the Greenup City Park. Volunteers take pride in keeping waterways clean, for their own benefit as well as for the wildlife that depend on the river. The public understands how valuable a resource the Ohio River and its surrounding tributaries are. The FIVCO Area development District planned the cleanup. The river sweep is supported by all three governmental bodies. Many people volunteered, collecting several tons of trash.

Advertisement and Cleanup day photos for the Ohio River Sweep are provided in **Appendix B**.

PART C: CONTROL MEASURE ACTIVITIES

6. Kentucky PRIDE Organization

As members of Hal Rogers' Pride Organization Ashland and Boyd County will continue to draw upon this organization and become active in various environmental programs.

7. City of Ashland, Boyd County and Catlettsburg Cleanup Days

Each held cleanup days this past year with cost to haul waste to landfills paid by the local governments.

The Spring Cleanup was conducted on April 30th, May 1st & 2nd. Overall 19.75 tons of waste was collected, the City/County received \$133.68 for scrap metal and had a cleanup cost of \$64.19.

The Fall cleanup was conducted on October 2nd & 3rd. Waste collected included construction debris, household hazardous waste and electronic waste (TV's, computers, and phones). 32 tons of waste was collected, received \$120.40 for scrap metal and had a cleanup cost of \$0. Veolia-Haz-mat/E-Waste cost was \$13,830.38

Hazardous waste collected included: driveway sealer, oil, acids, batteries, paints, solvents, aerosols, bulbs, lamps, pesticides, fire extinguishers, cylinders, carbon dioxide cylinder, and propane tanks.

Cleanup day photos for the spring and fall events are provided in **Appendix B**.

8. The Ashland Tree Board Plant a Tree Outing

Ashland held its annual Arbor Day Plant A Tree Project on April 23rd, 2016 at Central Park. Several tree seedling species including but not limited to birch, persimmon, sassafras, dogwood, white and red pine and pecan were given away with the help of Ashland Community and Technical College (ACTC) students and volunteers from the Ashland Group Home. 5,400 trees from the Kentucky Department of Forestry's nursery in West Liberty were distributed at the annual giveaway. Thanks to ACTC's considerable efforts in tree conservation and restoration through the years, it was awarded "Tree Campus USA" this year. The City expends a substantial amount of funds on seedlings, trees, mulch, tree maintenance along streets and parks and labor each year. With these expenditures, Ashland is also able to maintain its certifications as "Tree City USA". More trees add green canopy and more infiltration and filtration to rain water, which improves the overall water quality in the local streams and rivers.

See **Appendix B** for Plant A Tree Project photos

9. Ashland Water Plant and Wastewater Plant Tours

Tours are made available upon request for civic groups, school classes, and members of the general public.

10. Charles and Betty Russell Walking Trail – Maintenance and Upkeep

Ashland, Catlettsburg and Boyd County take pride in the maintaining and cleaning the miles of walking trails.

The walking trail was opening in 2014 and consists of hiking trails along creeks and hills and construction of several trail heads. The Russell's donated 20 acres on a hill between Forest and Ashland avenues. Volunteers cleaned and prepared paths. The trails are an asset to the City which will promote more health related activities and provide an avenue for the public to appreciate the local streams and environment. The grand opening was conducted on October 16th, 2014.

See Civic Group presentation in **Appendix B**.

11. State Tire Recycle Program

The Waste Tire Collection Program was established in 1998 as part of the Energy and Environment Cabinet's (EEC) ongoing effort to rid Kentucky's landscape of waste tires. During a waste tire collection event, individuals can drop off their unwanted tires at a specific location within their county as no cost. The EEC contracts for the removal and delivery of the recovered tires to "beneficial end use" markets where they are recycled to become product such as tire-derived fuel or crumb rubber.

12. Public Recycling Bins

Ashland, Catlettsburg and Boyd County make recycling easy and attainable by offering recycling bins for residents to drop off recyclable materials.

PART C: CONTROL MEASURE ACTIVITIES

How can the public find information about the SWQMP?

The SWQMP is easily accessed on the new Ashland and Boyd County Department website in the Storm Water Management Program page under the Public Works Department. Many other resources are also available on this page as well as contact information (phone number and email address) for SWMP representatives for the City of Ashland, the City of Catlettsburg and Boyd County in case the public has any specific questions or concerns.

Describe how or why efforts in meeting the MCM requirements were successful:

Efforts in meeting MCM requirements were successful thanks to a multi-media outreach approach. Rather than focusing all of its efforts in one area such as brochures and pamphlets, Ashland, Boyd County and Catlettsburg extended their outreach program to also encompass hands-on personalized events with their community. These proactive events brought the community and community organizations such as the Ashland Community and Technical College together for a unified cause, heightening local pride and support. In addition to this, some of the outreach events hosted in 2016 were done from years before. The repeat of these events help to leverage the message at a lower cost. The addition of the Ashland and Boyd County website also improved outreach efforts by providing a robust center for stormwater information.

Please attach documentation of any public involvement/participation events held in 2016.

C. Illicit Discharge Detection and Elimination:

Did you have any reported/discovered illicit discharges for 2016? If so, describe the incident and the elimination.

There were some sanitary sewer back-ups. The discharges were sanitary sewer waste. Correction actions included chemical and mechanical cleaning of the main sewer lines and laterals from roots and full replacement of mains and laterals.

There was a report of dumping of grease into drain in April 2016. Ashland inspected the grease trap and drain and owners were informed that dumping of grease into drains is illicit. Owners were instructed to clean their grease trap. Drain in question continues to be monitored with no sign of repeat offenses since December 2016.

See **Appendix D** for summary of CSOs and SSOs

How can the public notify the MS4 of spills or illicit discharges?

Illicit discharges can be reported to the City of Ashland, Catlettsburg, and Boyd County by phone or email. The public can find this contact information on the new Ashland, Catlettsburg, Boyd County website on the Storm Water Management Program page under the Public Works department. The Public can find the information under the heading "How Do I Report an Illegal or Illicit Discharge?" as well as a description of what is considered an illicit discharge. The public can also find on this page a link to the adopted 2005 Illicit Discharge Elimination ordinance.

Do you have a written IDDE Plan in place?

Yes. An IDDE plan was adopted in February 2007 and provided in the 2010 Annual Report.

Illicit discharges that are detected are eliminated immediately. Sanitary sewer back-ups and overflows are corrected the same day or next day at the latest. The corrections include cleaning with jet vacuum, replacing the damaged pipe and snaking the lateral or pipe to clear debris.

See **Appendix D** for summary of wet weather and dry weather CSOs and SSOs.

Boyd County Sanitation District continues to eliminate septic tanks and on-site treatment systems with the construction of gravity sanitary sewers. Boyd County installed 2,200 lf of storm pipe and re-graded approx. 15-20 miles of ditch flow lines.

Strand Engineering is Ashland's consulting firm involved with the CSO program, which includes a Long Term Control Plan. Ashland is under a consent decree with Kentucky Division of Water and an administrative order from EPA Region 4. Boyd County does not have combined sewers and Catlettsburg is working with KDOW on their CSO concerns. Catlettsburg has placed warning signs at all CSO outfalls. A copy of Ashland's Consent Judgment Annual Report 2015 was submitted to Kentucky Division of Water in February 2016.

See **Appendix C** for updated LTCP Report.

Ashland, Catlettsburg and BCSD continue smoke and dye testing in the collection systems to detect breaks or illicit connections to the sanitary sewer.

Have you completed the mapping of major outfalls?

Ashland and Boyd County – Yes

PART C: CONTROL MEASURE ACTIVITIES

Have you dry-screened your major outfalls?

Ashland and Boyd County have completed dry screening major outfalls.

City of Catlettsburg - Ashland and Boyd County will continue to share information, templates, etc. to get them started.

The following provides a time table for the MS4 Group screening program:

- Ashland completed dry weather screening inspection of 204 outfalls in the summer and fall of 2014. Outfall IDs, photos, date of inspection, temperature and weather condition, description of outfall, size and shape, flow description, and water quality parameters such as floatables, turbidity, sedimentation, pH, water temperature, were obtained for outfall inspected and entered into the GIS database.
- In March of 2015 Ashland developed a Phase II Stormwater Monitoring Program and submitted to KDOW. A copy of the Phase II Stormwater Monitoring Program Report and the dry weather screening results and map are provided in Appendix E.
- Ashland – conducted baseline sampling of four creeks – Keys, Brubaker, Long Branch and Little Hoods. Grab samples were taken and analyzed for ammonia, nitrogen, chlorine, conductivity, turbidity, pH, surfactants, metals and e-coli in 2016 and will review and update SWMP submitted in 2015. Any illicit discharges detected by public notification or other departments (utilities) will be addressed immediately.

Describe how or why efforts in meeting the MCM requirements were successful:

Efforts in meeting the MCM have been made successful through the adoption of Illicit Discharge Ordinance 168, continued determination of Boyd County Sanitation District to eliminate septic tanks and on-site treatment systems, the adoption of the IDDE plan in 2007, and the commitment of Ashland, Catlettsburg, and Boyd County to immediately eliminate all illicit discharges that are detected. Ashland, Catlettsburg, and Boyd County are pro-active in meeting permit requirements through continued dye and smoke testing in areas of potential or problematic illicit connections and the use of mapping of major outfalls. The addition to the new Ashland, Catlettsburg, and Boyd County website also hopes to aid in meeting MCM requirements by providing the community a unified storm water management resource to aid in contacting their local MS4 of illicit discharges.

29th Street CSO Separation Project

In addition to the above efforts, a CSO separation project along 29th Street in the City of Ashland was designed in 2016 to re-direct storm water from the combined sewer system, which during heavy rainfall events, causes a CSO to the Ohio River. This CSO separation project install 6,900 lineal feet of 15-inch through 48-inch storm sewers and separate storm catch basins from the combined sewer and connect to the new storm sewer system. This project is estimated to reduce the overall flow to the combined sewer by 10 percent effectively eliminating CSOs and improving the water quality to receiving streams. Construction will begin in the Spring 2017 at a cost of \$2.9 million.

See appendix D for 29th Street CSO Project 'The Daily Independent' news article

Please attach documentation of any illicit discharge detection and eliminations resolved in 2016.

D. Construction Site Stormwater Run-off Control:

How can the public notify the MS4 of possible noncompliance at construction sites?

Possible noncompliance at construction sites can be reported to the City of Ashland, Catlettsburg, and Boyd County by phone or email. The public can find this contact information on the new Ashland, Catlettsburg, Boyd County website on the Storm Water Management Program page under the Public Works department. The Public can find the information under the heading "Who do I contact to become involved or obtain more information on Ashland, Catlettsburg and Boyd County SWMP?" The public can also find on this page, a description of Post-Construction Runoff Control and a link to the City of Ashland, Catlettsburg, and Boyd County's adopted Erosion and Sediment Control ordinance.

Do you give the developer/contractor a permit from you, the MS4, for land disturbances for one acre or larger, or smaller than one acre if part of a larger common plan of development or sale?

Yes

How many permits were issued by the MS4 in 2016?

Under the erosion and sediment control ordinance:

Boyd County issued 106 Level 1 through 3 permits; Ashland issued 23 Level 1 through 3 permits. Inspections are provided for all permits.

See appendix F for City of Ashland Permit List

PART C: CONTROL MEASURE ACTIVITIES

Does the MS4 or its designee perform plan reviews for land disturbances for one acre or larger, or smaller than one acre if part of a larger common plan of development or sale? Is there a standardized form that is used to review plans?

Yes

At what frequency are inspections occurring at active construction sites?

Typically before construction, after BMPs are installed and depending on the duration and magnitude of the project at least monthly, and at final completion. Boyd County conducted inspections every 7 days.

How many inspections in 2016 resulted in enforcement actions? Fines collected?

Ashland and Boyd County – Non-compliance items were addressed without issuing notice of violations and fines

Describe any training given to operators/contractors in 2016?

Storm water training – This training provided guidance and criteria for selection and design of stormwater best management practices (BMPs) for water quality. These water quality BMPs apply to public and private development and redevelopment projects within the City of Ashland and Boyd County. The overall goal of the training is protection of receiving waters of the Commonwealth of Kentucky including tributaries of the Little Sandy River with smaller areas that drain to the Big Sandy River and Ohio River directly.

Describe how or why efforts in meeting the MCM requirements were successful:

Efforts in meeting MCM requirements were made successful by insuring all land disturbance activities were permitted (KYR10 permit), as required by the 2005 Construction Site Stormwater Runoff Control (EPSC) ordinance. Proof of permit was insured by the required proof of receipt of the KYR10 permit. Efforts were also made more successful by having contractors, builders and developers trained in implement EPSC best management practices and preventing silt and sedimentation from leaving construction sites and entering the MS4 conveyance system, thereby preventing the build-up of sedimentation in streams and the conveyance system from construction activities.

Please attach documentation of any construction site stormwater runoff events or outreach occurring in 2016.

E. Post-construction Stormwater Management in New Development and Redevelopment:

Describe how the MS4 is implementing the post-construction stormwater management in new development or redevelopment requirements in your MS4; including the 80% stormwater treatment standard.

The Ashland/Boyd County Post-Construction Stormwater Management Ordinance adopted in 2010 requires water quality treatment for storm water runoff from an 80 percentile storm event. For Ashland and Boyd County an 80th percentile storm event is equivalent to a rainfall event of 0.80 inches.

The goal of the Ashland/Boyd County SWQMP is to have new developments treat the MEP runoff generated from the first 0.80 inches of rainfall by conveying the runoff through a water quality BMP.

Per the KYG20 Permit on Part Page II-9 - The permittee shall demonstrate compliance with the requirements for post-construction controls by summarizing the following in the annual report. A summary of the number and types of projects that the permittee reviewed for new and redevelopment considerations and the types of BMPs installed including green infrastructure and buffers.

Does the MS4 do follow-up inspections to review the efficacy of the installed BMPs for post-construction or permanent stormwater management for new development or redevelopment?

Boyd County – yes
Ashland Catlettsburg – no BMP facilities to inspect

PART C: CONTROL MEASURE ACTIVITIES

MS4 staff must be trained in the fundamentals of long-term stormwater-quality treatment management practices and in how to review such practices on construction plans and how to inspect practices for long-term protection, operation and maintenance. Please describe the training of staff in 2016.

Storm water training – This training provided guidance and criteria for selection and design of stormwater best management practices (BMPs) for water quality. These water quality BMPs apply to public and private development and redevelopment projects within the City of Ashland and Boyd County. The overall goal of the water quality BMP training is protection of receiving waters of the Commonwealth of Kentucky including tributaries of the Little Sandy River with smaller areas that drain to the Big Sandy River and Ohio River directly

Flood Plain training – Educated attendees on the basics of the state flood plain program and a general overview in order to avoid regulatory compliance issues.

Training for MS4 staff was provided utilizing Kentucky Stormwater Association, participating in EPA webinars, and conducting consultant and vendor workshops. Available funding will limit how training can be provided.

Describe how or why efforts in meeting the MCM requirements were successful:

Efforts in meeting the MCM requirements were successful from the Implementation of post-construction BMPs to reduce runoff peaks and volumes when new development projects occur. Also, all three communities are working to improve trash and leaf collection and provide special cleanup days. Ashland and Catlettsburg continued with their respective street sweeping programs with the City of Ashland continuing to use of the Elgin Whirlwind and two Tempco filtered street sweeper. City of Catlettsburg ran the street sweeper several times from April to October. The MS4 group continues to maintain ditches, culverts, and catch basins. See below:

Boyd County: Cleaned 15-20 miles of ditches, repaired 2000 lineal feet of shoulders.

Ashland: Vacuumed and jetted 22 catch basins, repaired 17 storm lines and 28 catch basins, planted trees in several locations.

Catlettsburg Street Department continues to inspect, repair and remove trash and debris along creeks, culverts, storm sewer and catch basin along 46 roadways maintained by the City.

29th Street CSO Separation Project

In addition to the above efforts, a CSO separation project along 29th Street in the City of Ashland was designed in 2016 to re-direct storm water from the combined sewer system, which during heavy rainfall events, causes a CSO to the Ohio River. This CSO separation project install 6,900 lineal feet of 15-inch through 48-inch storm sewers and separate storm catch basins from the combined sewer and connect to the new storm sewer system. This project is estimated to reduce the overall flow to the combined sewer by 10 percent effectively eliminating CSOs and improving the water quality to receiving streams. Construction will begin in the Spring 2017 at a cost of \$2.9 million.

See appendix D for 29th Street CSO Project 'The Daily Independent' news article

Please attach documentation of any post-construction site stormwater runoff events or outreach occurring in 2016.

F. Pollution Prevention and Good Housekeeping for Municipal Operations:

The permittee must develop and implement an Operation and Maintenance (O & M) program that includes a training component with the goal of preventing or reducing pollutant runoff from municipal operations. Please describe the progress the Pollution Prevention/Good Housekeeping Program has made in 2016.

As a MS4 Group we continue to review our ordinances that pertain to storm water BMPs, the Storm Water Quality Management Plan and the Storm Water BMP Manual. These documents are available to municipal operations staff and are reviewed regularly. We also take opportunities to participate in EPA webinars, when possible. In 2017 we plan to provide re-fresher training for the following areas:

- NPDES History and Program Requirements
- Ashland/Boyd County SWQMP
- Protecting Water Quality from Urban Runoff
- O&M Programs for Parks & Recreation, Fleet Maintenance, Streets, Public Works, Engineering, Code Enforcement
- Spill/Leak Prevention Measures
- Spill Response Procedures
- Spill Cleanup Procedures
- Reporting

Available funding will limit how training can be provided.

PART C: CONTROL MEASURE ACTIVITIES

Has a comprehensive assessment of the pollutant discharge potential for all municipally-owned facilities been conducted? If not, indicate a status and planned completion date.

Because of budget cutback Ashland was not able to develop a formal stormwater municipal operations plan for the Ashland Streets Division site and Central Garage/Solid Waste Division site in 2016. In 2017 staff may prepare the SMOP with guidance from our consultant.

Ashland had approximately 670 gallons of used motor oil and 66 gallons of coolant hauled away from the fleet garage.

Boyd County removed the following used fluids: motor oil, diesel fuel and cleaning solvent.

The Boyd County Road Department garage has an oil/grease separator to eliminate problem fluids from entering the drain. This separator also serves the wash bay area.

Ashland Solid Waste Division collected over 9,905 tons of solid waste from combined street sweeping operations and cleanup days. Collected 9,152.60 tons household garbage and trash.

Boyd County has a salt barn with a non-pervious pad to catch loose salt to be put back in the barn.

City of Ashland's bus garage facility has an oil/water separator and other devices to prevent polluted water and used fluids from entering the sanitary or storm sewer systems.

Boyd County installed 2,200 lf of storm pipe and re-graded approx. 15-20 miles of ditch flow lines.

Is the Operation and Maintenance Program/Plan formalized or written?

See above

Describe any training presented to city staff on pollution prevention/good housekeeping in 2016.

Storm water training – This training provided guidance and criteria for selection and design of stormwater best management practices (BMPs) for water quality. These water quality BMPs apply to public and private development and redevelopment projects within the City of Ashland and Boyd County. The overall goal of the water quality BMP manual is protection of receiving waters of the Commonwealth of Kentucky including tributaries of the Little Sandy River with smaller areas that drain to the Big Sandy River and Ohio River directly

Flood Plain training – Educated attendees on the basics of the state flood plain program and a general overview in order to avoid regulatory compliance issues.

Training for MS4 staff was provided utilizing Kentucky Stormwater Association, participating in EPA webinars, and conducting consultant and vendor workshops. Available funding will limit how training can be provided.

Describe how or why efforts in meeting the MCM requirements were successful

Success is measured by the metrics of waste and pollutants reduced or eliminated from entering the MS4 conveyance system. This translates into cleaner streams and staying off the 303(d) list.

PART C: CONTROL MEASURE ACTIVITIES

Please attach documentation of any pollution prevention/good housekeeping events or outreach occurring in 2016.

12. Provide any data regarding the following indicators (if applicable). Attach separate sheets as necessary, and indicate, as appropriate, the rationale behind not using a listed indicator.

- a) Number or percentage of citizens that aware of storm water quality issues

Through our public education and outreach program we estimate 95% of our citizens are aware of storm water quality issues.

- b) Number and description of meetings, training sessions, and events conducted in 2016 to involve citizens

Spring and Fall Cleanups, Ohio River Sweep, Tree Board Arborist Day, Public Meetings, Fiscal Court Meetings; Some of these meetings were in partnership with KY Pride.

- c) Number or percentage of citizens that participate in storm water quality improvement projects in 2016.

15% involved in the programs listed in Item b.)

- d) Number and location of storm drains marked in 2016.

City of Ashland started storm drain marking/stenciling in 2014

- e) Estimated linear feet or percentage of MS4 conveyances mapped in 2016.

Ashland and Boyd County – 95 to 100% of conveyance system is mapped

- f) Number and location of MS4 area outfalls mapped in 2016.

Approximately 340 outfalls and storm structure have been mapped in Ashland and Boyd County (see **Appendix F**)

- g) Number and location of MS4 area outfalls screened for illicit discharges in 2016.

Ashland did not conduct any dry weather screening in 2016. Boyd County is starting their screening program.

- h) Number and location of illicit discharges detected in 2016.

None other than SSOs (**See Appendix D**)

- i) Number and location of illicit discharges eliminated in 2016.

None, SSOs were eliminated.

- j) Number of, and amount of material collected from, hazardous household waste (HHW) collections in 2016.

Hazardous waste collected driveway sealer, oil, acids, batteries, paints, solvents, aerosol, bulbs, lamps, pesticides, fire extinguishers, carbon dioxide cylinder, and propane cylinders. Recycled 384.96 tons at a cost of \$16,529.64

- k) Number and location of citizen drop-off centers for automotive fluids in 2016.

Two auto parts stores take automobile fluids on a regular basis. Neither of the governmental bodies sponsors a permanent drop off facility.

- l) Number or percentage of citizens that participate in HHW collections in 2016.

Through the Fall and Spring Clean-up days and from Solid Waste, the City paid \$13,830 for hazardous material and e-waste haul off.

- m) Number of construction sites permitted for storm water quality in 2016.

Boyd County – 106; Ashland – 23

- n) Number of construction sites inspected in 2016.

All construction sites issued permits were inspected

- o) Number and type of enforcement actions taken against construction site operators in 2016.

Minor actions; Any deficiencies identified were addressed immediately by the developer/contractor/builder

- p) Number of public informational requests received related to construction sites in 2016. - None received

PART C: CONTROL MEASURE ACTIVITIES

- q) Number, type, and location of structural BMPs implemented in 2016. – 29th Street CSO Separation Project will begin construction in spring 2017.
- r) Number, type, and location of structural BMPs inspected in 2016. – None
- s) Number, type, and location of structural BMPs maintained, or improved in 2016. – None
- t) Type and location of nonstructural BMPs utilized in 2016.
Silt fences, rock check dams and construction entrances were utilized at construction sites.
- u) Estimated acreage or square footage of open space preserved and mapped in 2016.
Aerial images were developed in 2010; No open spaces were preserved through easement or likewise.
- v) Estimated acreage or square footage of mapped pervious and impervious surfaces in 2016. - None
- w) Number and location of retail gasoline outlets or municipal, state, federal, or institutional refueling areas with implemented BMPs
100% of all stations have some type of BMP in place that are regulated by other agencies.
- x) Number and location of entities that have containment for accidental releases
Not available; Marathon Petroleum and AK Steel have containment structures at the tank farm where fuel and chemicals are stored.
- y) Estimated acreage or square footage and location where pesticides, herbicides and fertilizers are applied by the entity
City of Ashland applies along sidewalks and roadways; Approximately 120 acres.
- z) Estimated linear feet or percentage and location of unvegetated swales and ditches that have an adequately sized vegetated filter strip. - None
- aa) Estimated linear feet or percentage and location of stormwater sewer cleaned or repaired in 2016.
Ashland – Vacuumed and jetted 22 catch basins, repaired 17 storm lines & 28 catch basins; Catlettsburg - cleaned structures along 43 streets; Boyd County – 2,200 lineal feet
- bb) Estimated linear feet or percentage and location of roadside shoulders and ditches stabilized in 2016.
Boyd County – 2000 lineal feet of roadside shoulders, 15-20 miles of ditch stabilization.
- cc) Number and location of storm water outfall areas remediated from scouring conditions in 2016. - None
- dd) Number and location of de-icing salt and sand storage areas covered or otherwise improved to minimize storm water exposure in 2016.
All storage areas are covered. Ashland – Street/Garage 21st and Greenup Street garage; Boyd County – Road Department; Catlettsburg – Road Dept Facility
- ee) Estimated amount, in tons, of salt and sand used for snow and ice control in 2016.
Approximately 1100 tons of road salt, and 1500 tons of slag 8s for salt mix.
- ff) Estimated amount of material collected from catch basin, trash rack, or other structural BMP cleaning in 2016. - 1,500 tons

PART C: CONTROL MEASURE ACTIVITIES

- gg) Estimated amount of material collected from street sweeping in 2016. - 9,905.95 including street trucks and cleanup days
- hh) Number or percentage and location of canine parks sited at least 150 feet away from a surface water body
Boyd County Dog Park/US 60 up on flat part of hill with vegetation around perimeter – runoff goes to Shopes Creek
- ii) Other

13. Stormwater Quality Management Plan

- a.) Have there been any changes to the urbanized area covered by the MS4? If yes, is this reflected by updates to the SWQMP?

There have been no changes

- b) Are there any proposed changes to the goals or BMPs in the SWQMP?

No. We are still implementing the BMPs outlined on our BMP manual.

14. Discuss any problems encountered during this period (include any BMP changes in response to problems encountered).

As in years past the biggest challenges facing the MS4 Group is lack of funding sources coupled with budget cutbacks in the general fund that limits the amount of resources that can be committed to the MS4 program. This limitation presents challenges in implementing post-construction BMPs activities identified in the Ashland and Boyd County SWQMP.

The MS4 Group will continue to look for ways to share resources with other MS4 Groups and KYTC and spend dollars cost effectively to provide existing water quality programs and develop new programs and activities. The MS4 Group will continue to utilize training materials and water quality information available from the EPA. Summer help from local high school and college students will be used where possible

PART D: MISCELLANEOUS INFORMATION

15. Identify any new funding source(s) for implementing this permit.

Ashland continues to use summer interns to assist with activities if possible.

There are no new funding sources available other than limited general funds. With the turndown in the local economy there will be less funding available to support this program.

16. Provide a summary of complaints received and the follow-up actions taken in reference to storm water quality issues.

No major complaints in 2016. A minor complaint was voiced but after follow-up investigation there was no issue. The below is a recap of this initial complaint that was invalid.

12-14-2016 – KY DECA Abandoned Mine Land Reclamation Project – Shadowlawn Drive and Powers Road

A concern was voiced by a resident who was concerned that storm drain installation would increase the volume and velocity of stormwater near their home. Abigail Rains, MS4 Coordinator was contacted. She believed that the storm drain installation was an attempt to get storm water out of the area so that it does not overwhelm the nearby sanitary sewer manhole, which in the past has overflowed to Keyes Creek. She contacted Lynne Brosius in case this would cause any SSO issues. Abandoned Mine Lands Reclamation Project. Bill Halterman with the City of Ashland Engineering Department went to the site and observed that the contractor had followed proper BMP procedures by installing silt fencing around fill areas and rip-rapped along ditches with seed and straw on the disturbed areas. This AML project will improve surface drainage and prevent future erosion in this area. No problems were observed. See attached incident report in Appendix F

17. Implementation status:

- a. Are the six minimum control measures being implemented within the compliance schedule and SWQMP timetables?

Yes No*

* If no, submit revised compliance schedule and SWQMP Timetables.

- b. Do you foresee any problems which may affect full implementation of all the measures?

Yes No*

* If yes, explain:

As mentioned last year, educating newly elected officials on the Phase II Storm Water Management Program and the importance of implementing all activities; Also, there has been a turnover in senior management at Ashland so education and buy-in from the new leadership will be critical for the success of our programs.

Obtaining funding to start new activities, especially under the illicit discharge detection and elimination program, and continuing to educate staff through attendance at EPA and KDOW sponsored workshops and seminars.

18. Do you have any impaired streams? If so, impaired for what pollutant?

Yes, 9 streams are listed on the 2014 Kentucky 303(d) List. These streams include: Big Sandy River 0 to 27.1, East Fork Little Sandy River 16.9 to 26.4, and 27.6 to 30.9, Ellingtons Bear Creek 0 to 1.5, Garner Creek 0 to 1.8, Hurricane Fork 0 to 2.2, Ice Dam Creek 0 to 2.7, Lockwood Creek 2.6 to 3.2, Paddle Creek 0.0 to 1.6, Williams Creek 0 to 2.9.

Impairments include: Biological Indicators of Nutrient/Eutrophication, Sedimentation, Specific Conductance, E. coli, Temperature, Nitrogen, TDS and Biological Indicators of Organic Enrichment.

19. TMDL – Do you have a TMDL in your MS4? For which stream segments? What is the impairment?

No. All streams are Category 5 – Water is impaired and requires a TMDL

20. What can the Division of Water do to assist you with program compliance?

The quarterly Storm Water Association conferences are a great opportunity to obtain training and share information about MS4s. Our limited funding however has required cut backs on the amount of staff/employees sent to the conferences. We would like to see the KDOW conduct some workshops in the Boyd-Greenup County area in 2017, to allow more staff/employee participation and training.

PART E: CERTIFICATION AND SIGNATURE

► The individual completing this report, listed in "PART A: GENERAL INFORMATION – MS4 OPERATOR" must sign the following certification statement:

"By signing this annual report, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

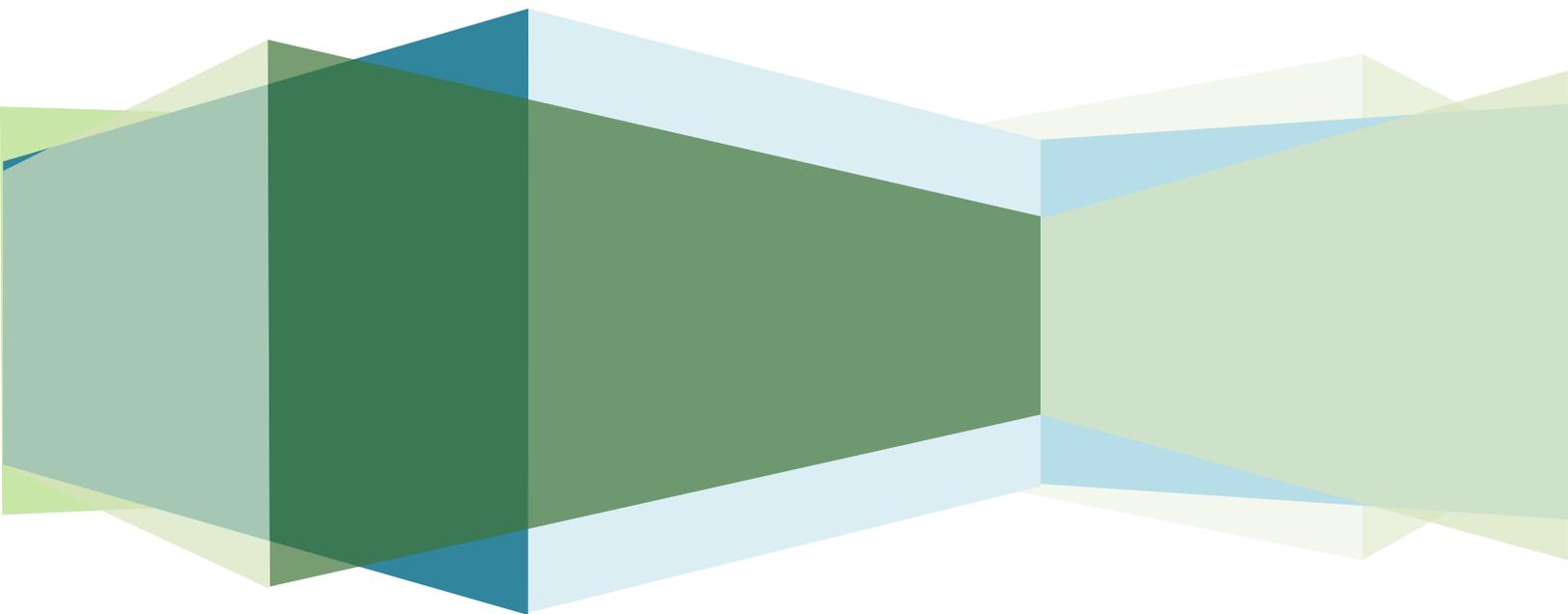
Type or Print Name: Marion Russell

Signature: 

Date: 3/31/17
(mm/dd/year)

Appendix "A"

- Public Notices
- Advertisements
- SWAC Meeting
Sign-in Sheet





TREE SEEDLING GIVEAWAY

in celebration of National Arbor Day

VARIETY OF SEEDLINGS
SATURDAY, APRIL 23, 2016

CENTRAL PARK

CONCESSION STAND
(CENTER OF THE PARK)

10:00a.m.

Until seedlings are gone!

Sponsored by:
CITY OF ASHLAND
&
THE ASHLAND TREE BOARD

Ashland is recognized as a Tree City USA
by the National Arbor Foundation

Free tree time in Ashland



Volunteer Tom Robinson hands a bundle of trees to Vince George.

MIKE JAMES | THE DAILY INDEPENDENT

Annual Arbor Day giveaway draws scores to Central Park

BY MIKE JAMES
 THE DAILY INDEPENDENT

ASHLAND When Jack and Nadine Maggard build their log home in Westwood, they will be able to landscape it with trees they got Saturday.

The Maggards walked away from the annual Arbor Day tree giveaway in Central Park with a bag containing birch, persimmon, sassafras, dogwood, white pine and pecan seedlings, all of it intended for the grounds around their new home.

They were among the scores of people who braved a chilly breeze and overcast sky for the

"This is a good cause. You have to think about how many trees we are cutting down per year."

Alisha Tilsley, ACTC student



MIKE JAMES | THE DAILY INDEPENDENT

Volunteer Alisha Tilsley prepares tree seedlings for distribution.

chance to take home a bundle of sticks that one day will provide them with shade, scenery and — in the case of pawpaws and persimmons — snacks.

Vince George of Russell

took home both fruit varieties, plus red oak, white pine and dogwood. The white pines will make good bird cover, the persimmons also are good for wildlife, and he will eat the pawpaws himself, he

said.

There were 5,400 trees to distribute at the annual giveaway, said Ashland tree board member Carrie Stambaugh.

The trees come from the Kentucky Department of Forestry's nursery in West Liberty.

This year's giveaway concentrated on native species, mainly those that will thrive in an urban environment, Stambaugh said. Most were small to medium sized species, hardy and disease resistant.

Some species that were popular in past years like flowering dogwood, were not offered this year because survival rates are not encouraging.

Organizers predicted the popularity of the fruit trees. "We expected people to come out for the pawpaws," she said.

Pawpaws are a species

SEE TREES | A8

TREES:

From Page A1

Native species were the stars at this year's Arbor Day giveaway

once common in the region, but because they are shade-loving trees they died back when much of the terrain was cleared a century or more ago.

Organizers made another change in the name of environmentalism, bundling same-species seedlings with painter tape rather than putting them into individual plastic bags.

That meant if you asked for three white pines, three red oaks and three Kentucky coffeetrees, you would get them all bundled by species in one plastic bag, rather than a plastic bag apiece.

The giveaway was powered by the volunteer efforts of Ashland Community and Technical College students and faculty and by youthful volunteers from the Ashland Group Home.

"This is a good cause. You have to think about how many trees we are cutting down per year," said ACTC student Alisha Tilsley.

"We're making up for what we have lost," volunteer Ian Gehringer said.

The Daily Independent April 24th, 2016

ACTC receives tree campus status

BY MIKE JAMES
THE DAILY INDEPENDENT

ASHLAND Ashland Community and Technical College is taking steps to enhance the quality of the trees on its city campus and achieving the status of a Tree Campus USA is part of it.

The National Arbor Day Foundation conferred the designation on ACTC this spring, college president Kay Adkins said in a ceremony Saturday.

To become a Tree Campus, ACTC had to meet five requirements, including having a campus tree advisory committee, developing a tree care plan, allocating money to care for trees, holding an annual arbor day observance and

conducting an associated service learning project.

When maintenance and operations director Paul Seasor and natural sciences and math instructor Logan Minter first started talking about campus tree care several months ago, they concluded that ACTC already met several of the requirements, said Minter, who is chair of the college sustainability committee.

It spends a considerable amount each year on tree care and it observes arbor day with the annual Central Park tree giveaway. Students conduct numerous community service projects, the most recent being clearing and revitalizing a campus trail system.

The main thing missing was a tree care plan,



MIKE JAMES | THE DAILY INDEPENDENT

ACTC instructor Logan Minter announces tree campus designation.

which since then has been drafted and adopted.

One overall goal is restoring the campus to a more natural setting, concentrating on native species and removing invasives, Minter said.

Doing so is restoring the nat-

ural ecosystem and enhancing the campus as habitat for woodland animal species.

Being a Tree Campus will help with long-term planning, Seasor said. "Revitalizing what we have is setting us up for long-term success."

The Daily Independent April 24th, 2016

Clean Sweep: Scouts help spruce up riverfront

BY ANDREW ADKINS
THE DAILY INDEPENDENT

ASHLAND Local Cub Scouts scavenged for trash on Saturday along the Ashland Riverfront while hundreds of other volunteers cleaned up shorelines along the Ohio River Valley.

The annual river sweep organized by the Ohio River Valley Water Sanitation Commission sought to remove pollution from parts of tributaries

"This is our lifeblood. Ashland wouldn't be here if not for this river."

Eric Patton, FIVCO

and shorelines in Illinois, Indiana, Ohio, Kentucky, West Virginia and Pennsylvania.

Volunteers spent the day at more than 140 cleanup sites in the six states. The FIVCO Area Development District led local cleanup efforts as part of the river sweep in Catlettsburg, South Shore, Russell and Worthington,

as well as in Ashland's riverfront. "This is our lifeblood. Ashland wouldn't be here if not for this

ANDREW ADKINS | THE DAILY INDEPENDENT
Ashland Cub Scout Pack 1100 spent its Saturday searching for trash at the Ashland Riverfront during the annual river sweep.

SEE SWEEP | A8



SWEEP:

From Page A1

Annual river sweep began in 1989 and collects trash

river," said Eric Patton of FIVCO.

Patton supervised while 20 Cub Scouts listened to orders from their troop leader. Roy Dillon, father of Scout Zachary Dillon, said the pack participated in the river sweep for a second year to practice

its motto "Leave no trace."

His 8-year-old son said he wanted to "remove pollution out of the water." The pack spent the morning picking up between 30 and 40 bags of trash, full of mostly beer cans, plastic and cigarette butts.

Nick Osbourne, a 10-year-old webelo in the pack, was energetic about spending his Saturday picking up after others. He said the group found a batch of mannequin heads littered near the riverfront last year and hoped to find more unique objects to throw away.

Volunteers at the Catletts-

ANDREW ADKINS | THE DAILY INDEPENDENT
Lilly Dillon drops garbage into a trash pack as she helps a local Cub Scout troop clean up the Ashland riverfront.



burg City Park, the Old Boat Landing in South Shore, the riverbank near Riverside Drive in Russell, the Worthington City Park and the Greenup City Park also sacrificed their Saturday morning as part of the river sweep.

The annual river sweep started in 1989. The river sweep was projected to result in the collection of approximately 100,000 pounds of trash.

The Daily Independent June 20th, 2016

**PUBLIC NOTICE
CITY OF ASHLAND
ORDINANCE NO. 82, 2005
ORDINANCE NO. 168, 2005**

PROHIBITED DISPOSAL PRACTICES

Prohibits the disposal of RUBBISH and TRASH, defined as: Leaves, grass cuttings, wood chips, shavings, sawdust, wood-ware, paper, cardboard, straw, discarded clothing, etc., to be thrown or deposited, or to cause the same to be thrown or deposited, upon or in any street, alley, gutter, vacant lot, or yard.

Prohibits the deposit of any rubbish or waste matter in or on any vacant lot, yard, street, alley, gutter, highway, park, or other public place within the city, except building materials and related supplies in use for construction by virtue of an authorized current building permit.

Prohibits the deposit, or cause to be deposited, in any manner garbage or rubbish or any other waste matter into the sewer system or the city, except with the written approval and under direction of the Director of Public Works of the city.

PENALTY - Any person, firm, or corporation violating any of the provisions of this chapter shall be deemed guilty of a misdemeanor and, upon conviction thereof, shall be punishable by a fine of not less than twenty-five dollars (\$25.00) nor more than five hundred dollars (\$500).

Published: November 13 & 16, 2016

The Daily Independent November 13th & 16th 2016

CITY OF ASHLAND
GENERAL FUND
PO BOX 1839
ASHLAND KY 41105-1839

NEWSPAPER AFFIDAVIT

I, MICHAEL GELBMAN, ADVERTISING DIRECTOR OF THE DAILY INDEPENDENT NEWSPAPER PUBLISHED IN ASHLAND, AND HAVING THE LARGEST CIRCULATION OF ANY NEWSPAPER IN THE BOYD COUNTY, KENTUCKY, DO HEREBY CERTIFY THAT FROM MY OWN KNOWLEDGE AND A CHECK OF THE FILES OF THIS NEWSPAPER THAT THE FOLLOWING ADVERTISEMENT WAS INSERTED IN THE DAILY INDEPENDENT.

SIGNATURE: *Michael Gelbman*

SUBSCRIBED AND SWORN TO BEFORE ME BY THE ABOVE, THIS 16th DAY OF November, 2016

NOTARY PUBLIC *Eugene M. Hallahan Jr.*

MY COMMISSION EXPIRES *March 9, 2019*



COMMENTS	EXPIRED DATE	AD CAPTION	#TIMES	AMOUNT
THE DAILY INDEPE	11/16/2016	ORD 82 & 168,	2	406.90
11/13/2016	11/16/2016			

2/8/14

SL/AC

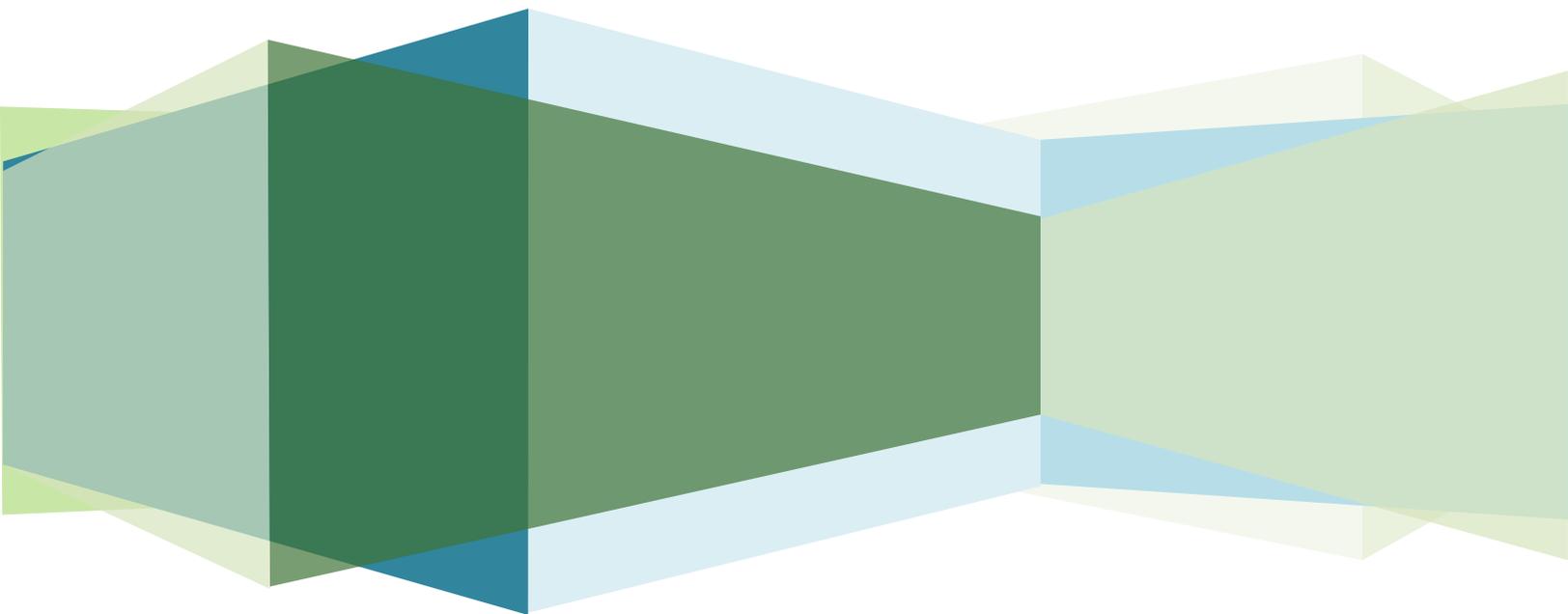
Name -	City/County	Phone
JIM NICHOLS	CITY OF ASHLAND	606-327-2008
Alex Vanderpool	Boyd Co. ROAD Dept.	606-232-0720
Trisha Leach	Boyd Co.	606-739-6595
Nickie Smith	Boyd Co.	
Lisha BRANHAM	Boyd Co. Code Enforcement	606-939-9109
Tim Wallin	Boyd Co CODE ENFORCEMENT	606-923-2077
PAT Meade	CITY OF CATLETTSBURG	606-585-8650
Eddie Peterman	CITY OF CATLETTSBURG	606-371-4000
BILL HALTERMAN	CITY OF ASHLAND	606-327-2008

- Plan to complete 2015 Report
info needed
- When will the State have the
new permit process ready
- What the Ag Agent could do
to help slash water

Appendix "B"

Public Involvement and Participation Information and Photos

- Spring and Fall Cleanup Days
- Ashland Tree Board Plant a Tree Outing
- Charles and Betty Russell Hiking Trails





April 30th, May 1st & 2nd
2016

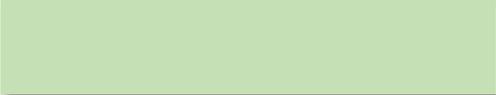
Spring Cleanup





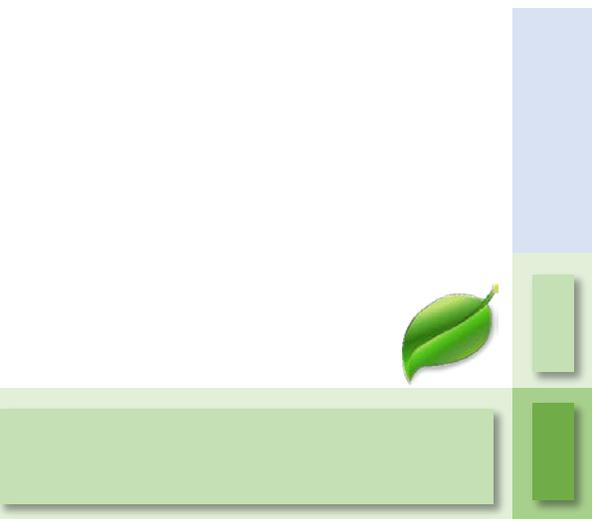
Spring Cleanup

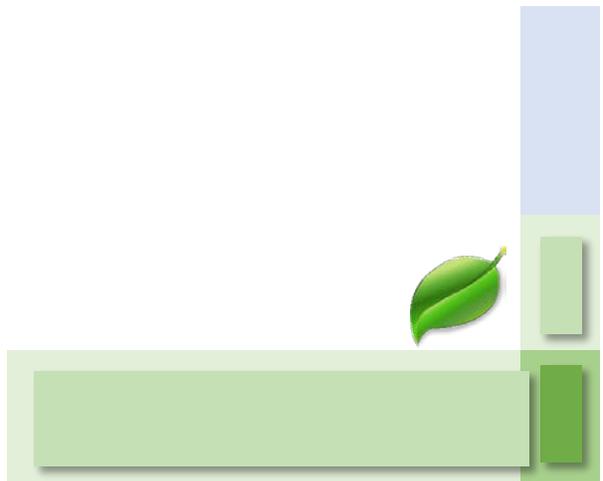
April 30th, May 1st & 2nd 2016















October 2nd & 3rd 2016

Fall Cleanup





Fall Cleanup

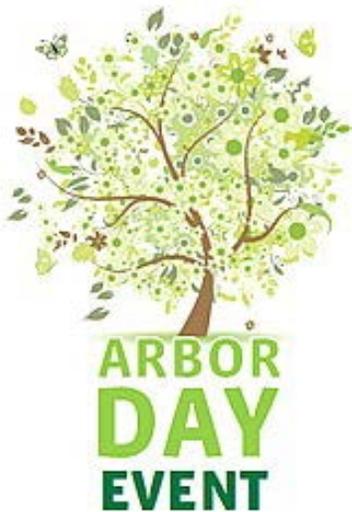
October 2nd & 3rd 2016

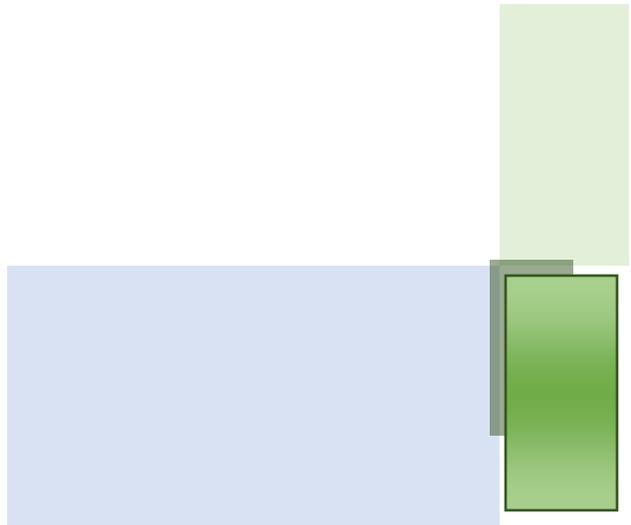


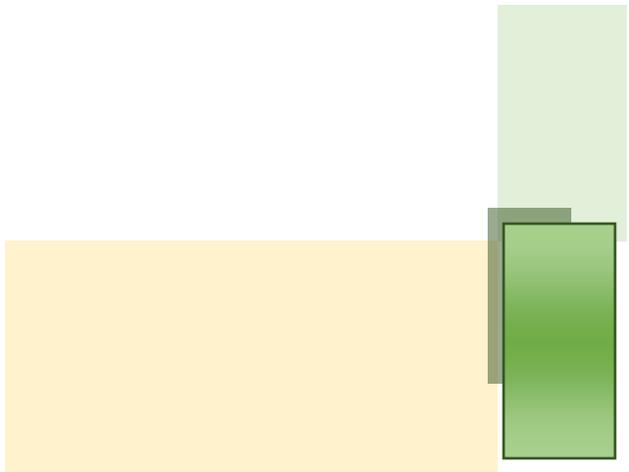


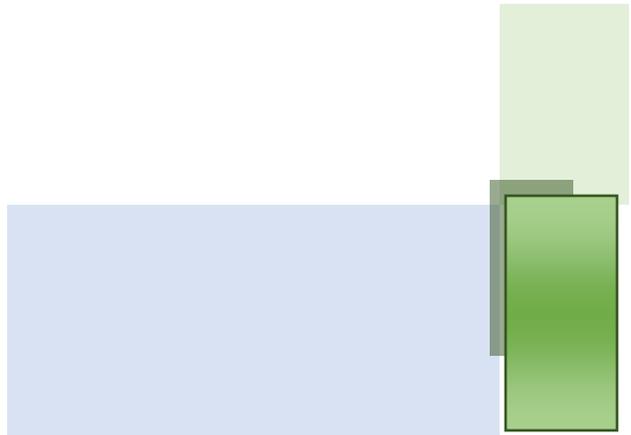
April 23, 2016

Ashland Tree Board Plant a Tree Outing



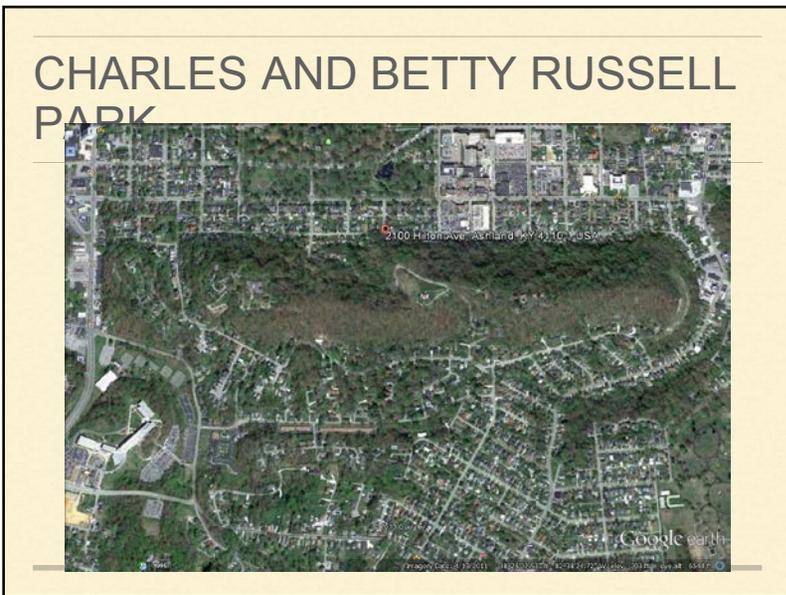
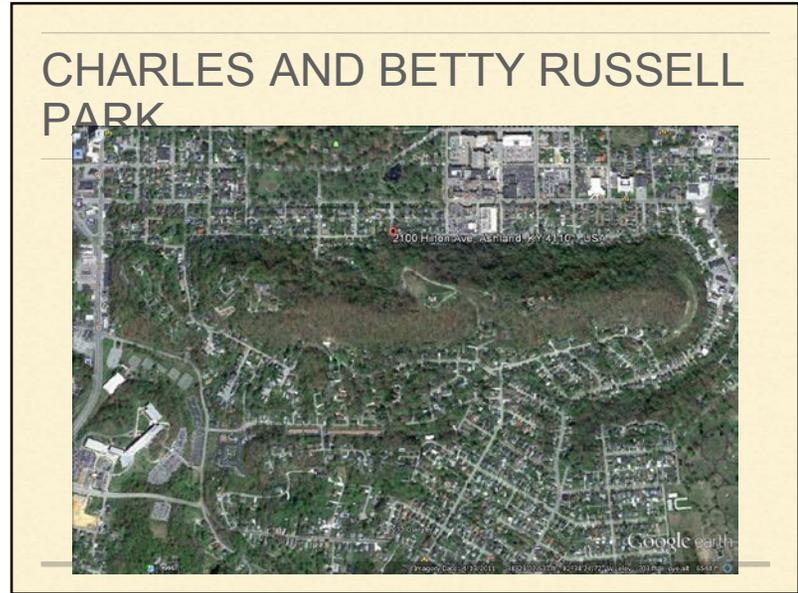
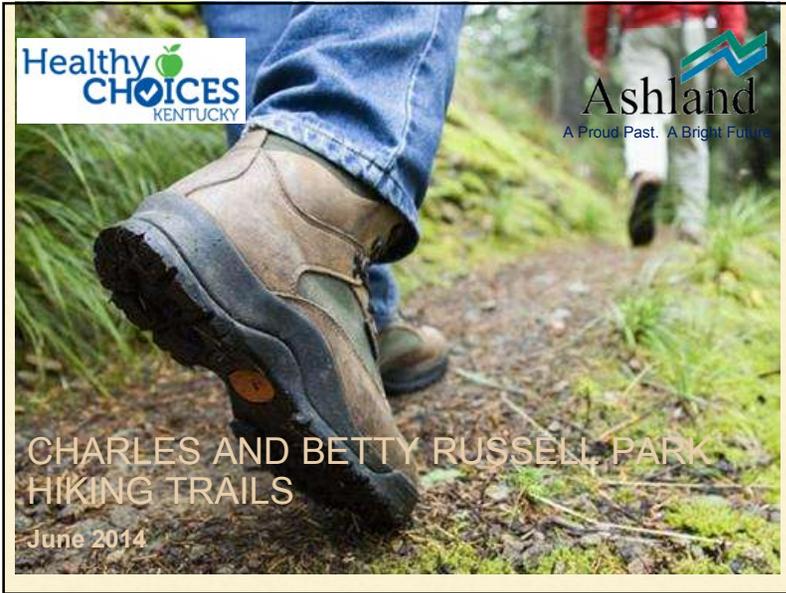






Charles and Betty Russell Park Hiking Trail





HIKING THE PARK



REGIONAL SERVICE PROJECT



PHASE I HIKING TRAILS



CALENDAR OF EVENTS

- June 7th, 2014, 9:00AM: First "Community Build" Day
- June 14th, 2014 9:00AM: Second "Community Build" Day
- June 21st, 2014, 9:00AM: Third "Community Build" Day
- July 12, 2014, 9:00AM: Fourth "Community Build" Day
- July 26, 2014 9:00 AM, Fifth "Community Build Day
- October 3, 2014, Grand Opening

COMMUNITY BUILD DAY Day 1

- > Entire trail will be divided into 10 sections
- > Each civic group will be assigned a section of trail to clear.
- > Volunteers not belonging to a civic group will be assigned to a civic group.
- > Instructions will be provided by city staff on the morning of the Community Build Day on how to clear the trail bed and trail way



WHAT TO BRING

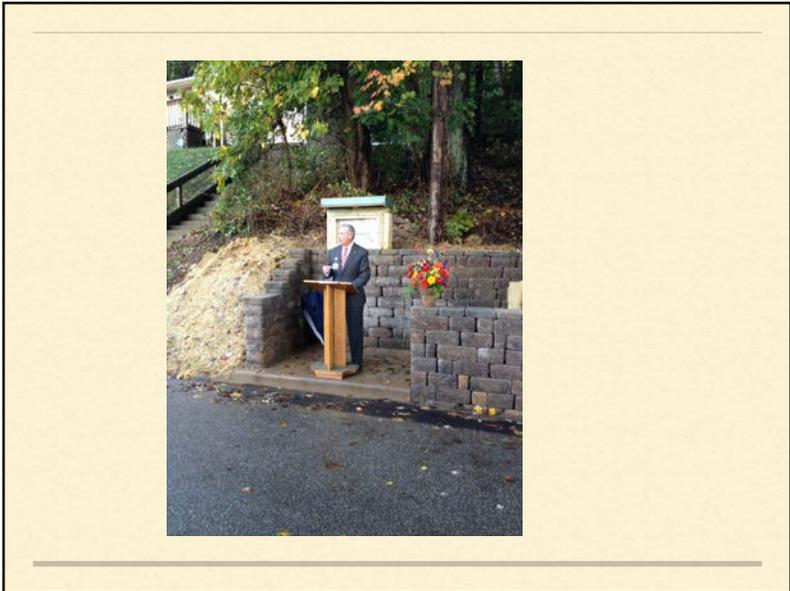
- ♦ Gloves
- ♦ Safety Glasses
- ♦ Protective Apparel
- ♦ Shovels
- ♦ Rakes
- ♦ Hoes
- ♦ Garbage Bags
- ♦ Clippers



String Trimmers

FIRST COMMUNITY BUILD



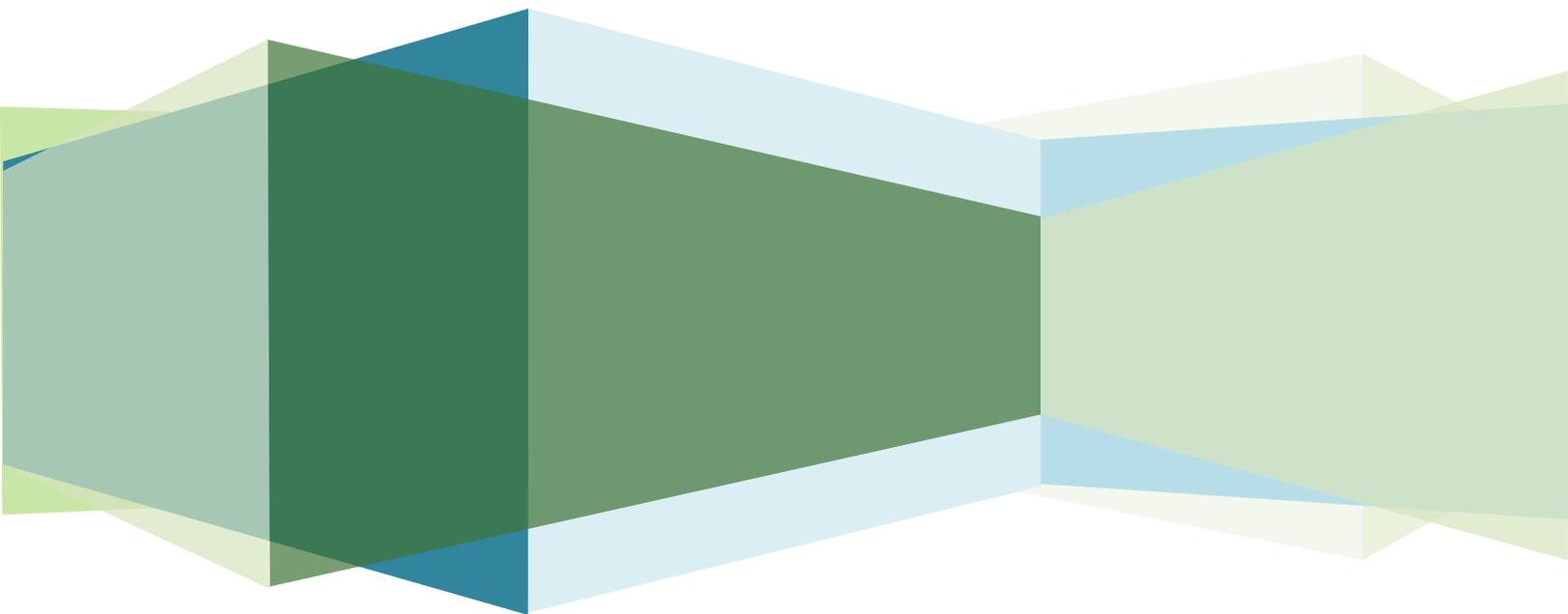


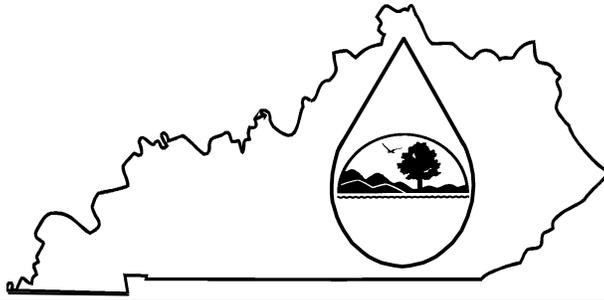


Appendix "C"

Long Term Control Plan

- Consent Judgment Annual Report





KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

Combined Sewer Overflow (CSO) Annual Report For Publicly Owned Treatment Works

Submission of a Combined Sewer Overflow (CSO) Annual Report is a required condition of your Kentucky Pollutant Discharge Elimination System (KPDES) permit(s). The 2016 Annual Report is for the entire 2016 calendar year (January 1 – December 31).

A typed and complete CSO Annual Report must be received by March 1, 2017. All entries must be filled out completely, or the report will be considered deficient. It may be submitted as one, single .pdf file through the CSO Section of the DEP/DOW ePortal at <https://dep.gateway.ky.gov/ePortal/DesktopDefault.aspx>. If you have any questions regarding submitting the report through the ePortal, send an email to the ePortal helpdesk at DEPTempoSA@ky.gov. A paper report may also be submitted to:

Division of Water
Surface Water Permits
300 Sower Blvd.
Frankfort, KY 40601

Failure to submit the report by the deadline may result in enforcement action, and the control authority may be considered to be in significant noncompliance.

Should you have any questions, contact Lynne Brosius at 502-782-6901 or lynne.brosius@ky.gov.

I. PERMITTEE INFORMATION

A. Name of Permittee:
City of Ashland

B. Wastewater Treatment Plant Name: Ashland Wastewater Treatment Plant	KPDES Number(s): KY0022373	County: Boyd
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II. CSO PROGRAM CONTACT INFORMATION

A. Name: Mr. Ryan Eastwood, P.E.

B. Title: Director of Engineering and Utilities

C. Phone: 606-327-2008

D. E-mail Address: reastwood@ashlandky.org

E. Mailing Address:

1. Street: 1700 Greenup Avenue, Suite 408

2. City: Ashland

3. State: Kentucky

4. Zip Code: 41105

III. CSOs ACTIVE DURING THE REPORTING PERIOD

A. List all CSO¹ outfalls that were active² at any time during the reporting period. Say whether each outfall was active² or eliminated³ at the beginning and at the end of the reporting period.

CSO No. ⁴	CSO Name ⁵	Status on January 1	Status on December 31	Changes to CSO? (Y/N)
002	26th Street	Active	Active	N
004	37th Street	Active	Active	N
006	34th Street	Active	Active	N
008	18th Street	Active	Active	N
009	15th Street	Active	Active	N
010	10th Street	Active	Active	N
012	6th Street	Active	Active	N
014	Roberts Drive	Active	Active	N

B. For each CSO listed above that has a different status at the beginning and the end of the reporting period, describe the changes to the CSO status below. Reference or attach supporting documentation such as permit applications, permits, or approval letters. If a *CSO Outfall Elimination Certification* form was submitted to DOW prior to the end of the reporting period, list the date it was submitted and the approval date, if approved by DOW.

C. For each CSO listed above that has changes to CSO, describe the changes to the CSO components or operation. Examples of changes are modifications or removal of regulators, storage facilities, screening facilities, disinfection facilities, devices to prevent intrusion of receiving water such as flapgates or tideflex valves, or monitoring equipment such as SCADA, real time control, and flowmeters.

Notes:

1. “CSO” means a Combined Sewer Overflow that is a permitted outfall listed on the active KPDES permit and in EPA’s ICIS program as a Permitted Feature.
2. “Active” means that the CSO regulator and outfall were capable of discharging sanitary or combined sewage (whether or not any discharge occurred) and were not plugged or removed at any time during the reporting period. This does not include any CSO outfall that has been converted to discharge only separate storm water prior to the beginning of the reporting period. All CSOs are considered “active” until a CSO Outfall Elimination Certification form has been submitted to DOW and approved.
3. “Eliminated” means that the CSO regulator and outfall were physically incapable of discharging sanitary or combined sewage. This includes a CSO outfall that has been converted to discharge only municipal separate storm water prior to the beginning of the reporting period. All CSOs are considered “active” until a CSO Outfall Elimination Certification form has been submitted to DOW and approved.
4. “CSO No.” means the KPDES CSO No. listed on the active KPDES permit for each Combined Sewer Overflow outfall and in EPA’s ICIS program as a Permitted Feature.
5. “CSO Name” means CSO Name listed on the active KPDES permit for each Combined Sewer Overflow outfall and in EPA’s ICIS program in the Permitted Feature Description or Limit Set Name.

Comments:

IV. NINE MINIMUM CONTROLS

A. For each Nine Minimum Control, list all of the activities that were implemented during the reporting period. Describe the benefits achieved by implementing each activity for specific CSOs and/or system-wide.

<i>Nine Minimum Control</i>	<i>Activities Implemented During the Reporting Period</i>	<i>Descriptions of Benefits Achieved</i>
Proper Operation and Maintenance Programs	Continued to train new employees and retrain existing employees on the already developed O&M manuals, operation procedures, and documents.	Helped reduce the magnitude, frequency, and duration of CSOs as this has allowed the system to perform as effectively as possible.
Maximize Use of Collection System for Storage	City has already made minor modifications to the CSS to increase in-system storage as part of the early action projects of the LTCP. City personnel continued to look for opportunities to make minor modifications to the CSS to maximize in-system storage. The City's maintenance activities included the removal and prevention of accumulations of debris and sediment that restrict flow.	These activities have helped in the reduction of the magnitude, frequency, and duration of CSOs that flow untreated into receiving waters from the City's CSS.
Pretreatment Program to Minimize CSO Impacts	The City no longer receives hauled waste during wet weather.	This has freed up capacity at the City's WWTP to treat more flows during wet weather events.
Maximize Flow to WWTP for Treatment	The City has already installed three new manholes on Greenup Avenue trunk sewer to intercept flow before they reach the 18th Street and 19th street CSO regulators and overflow. Flow is conveyed to 26th Street PS and is pumped directly to the WWTP. LTCP CSO abatement projects are designed to maximize flow to the WWTP.	The installation of the manholes has been very beneficial, especially during low-intensity rainfall events when there is capacity available in the Greenup Avenue Interceptor but that the regulators limit the flow that can be discharged from these trunk sewers to the Greenup Avenue interceptor. By intercepting these flows, the City is maximizing flow to the WWTP. In addition, all the completed CSO LTCP projects have maximized flow to the WWTP allowing the City to capture over 90 percent of the combined sewage collected in the CSS during precipitation events on a system-wide annual average basis.
No Dry Weather Overflows	City personnel visits all CSO regulator sites daily to identify dry weather overflows (DWOs). Data collected by CSO flow meters are also reviewed to identify DWOs. Any DWOs identified are corrected and KDOW is notified of the overflow and the corrective action taken.	These steps have helped the City ensure that the CSS does not overflow during dry weather and if it does, it is identified and corrected promptly.
Control of Solids and Floatables in CSO Discharges	The City's street sweeping routes have been modified to focus more on the CSS. The City also continues to use sewer bill inserts to educate the public on CSOs.	This action has helped reduce visible floatables and solids that discharge to the Ohio River through the City's CSS.
Pollution Prevention to Minimize CSO Impacts	The City's street sweeping routes and solid waste collection have been modified to focus more on the CSS.	This has helped the City minimize the opportunity of contaminants from entering the CSS and thus the Ohio River via CSOs.
Public Notification of CSO Occurrences and Impacts	City-maintained warning signs installed on all outfalls. Used sewer bill inserts to educate the public on CSOs.	City has been able to educate the public on the possible health and environmental effects of CSOs. This has also helped the City in gaining buy-in from the public when it came to rate increases to fund the LTCP projects.

Monitoring for CSO Impacts and Performance of CSO Controls	City has already installed flow meters on all CSO outfalls and rain gauges at three strategic locations within the collection system. The City continued to use data collected by the flow meters to document CSO discharge information.	The CSO data being collected by the flow meters continuously has helped the City measure the effectiveness of the CSO control projects already completed by the City as part of the CSO LTCP.
B. For any activities in the approved NMC Compliance Report that were not implemented during the reporting period, please explain why the activities were not implemented.		
C. Provide additional details of any activities listed in the table that were not in the approved NMC Compliance Report.		

Notes:

1. "CSO" means a Combined Sewer Overflow that is a permitted outfall listed on the active KPDES permit and in EPA's ICIS program as a Permitted Feature.

Comments:

V. LONG-TERM CONTROL PLAN (LTCP)

A. For each CSO control project included in the approved Long Term Control Plan (and any subsequent modifications to the LTCP), list the project name and ID number and completion date as listed in the approved LTCP, actions on the project during the reporting period, actions planned to be taken on the project during the next reporting period, and status of the project at the end of the reporting period (for example, Future, Design, Construction, Completed with completion date).

<i>LTCP Project ID and Name</i>	<i>Approved Completion Date</i>	<i>Actions Taken During Reporting Period</i>	<i>Actions Planned During Next Reporting Period</i>	<i>Status at End of Reporting Period</i>
03050–Roberts Drive and 6th Street PS and Force Main Improvements	12/31/2012	None	None	Completed
03050–Tenth Street CSO Regulator Modifications	12/31/2012	None	None	Completed
03060–37th Street PS and Force Main Improvements and 34th Street CSO Regulator Modifications Project	12/31/2014	None	None	Completed
03070–Greenup Avenue Interceptor Manholes	12/31/2014	None	None	Completed
03200–Tannery Line and 29th Street Stormwater Separation	12/31/2016	Bidding	Construction	Construction
03210–Improve WWTP to Treat 22 MGD PHF and Provide 3.5 MG of Wet Weather Storage	12/31/2025	None	None	Future
03220–10th Street PS Force Main Modification Project	12/31/2025	None	None	Future
03230–26th Street CSO Regulator Modifications Project	12/31/2025	None	None	Future
03230–26th Street PS Improvements Project	12/31/2025	None	None	Future

B. Describe any changes in the project name, description, scope, or completion date from the approved LTCP. Changes to the project from what is in the approved LTCP and modifications require written notification to KDEP, and may require written approval.

C. Attach a copy of the project table and Gantt chart, if available, from the approved LTCP.

Notes:

1. “CSO” means a Combined Sewer Overflow that is a permitted outfall listed on the active KPDES permit and in EPA’s ICIS program as a Permitted Feature.

Comments:

A copy of the project table from the approved LTCP is attached.

VI. CSO DISCHARGES

B. Individual CSO Discharge Events

List each discharge event that occurred during the reporting period for each CSO listed in section III.A of this report. Include all discharges that occurred as a result of precipitation events.

CSO No. ³	Start and Stop Date/Time	Duration (hours:minutes)	Volume Discharged (million gallons)	Cause
002	1/11/2016	24:00	0.04	Rain Event
008	1/11/2016	24:00	0.01	Rain Event
009	1/11/2016	24:00	0.001	Rain Event
008	1/27/2016	24:00	0.001	Rain Event
008	2/1/2016-2/2/2016	48:00	0.01	Rain Event
004	2/2/2016	24:00	0.21	Rain Event
008	2/3/2016	24:00	0.30	Rain Event
002	2/4/2016	24:00	0.86	Rain Event
008	2/4/2016	24:00	0.47	Rain Event
009	2/4/2016	24:00	0.38	Rain Event
014	2/4/2016	24:00	0.13	Rain Event
004	2/4/2016-2/5/2016	48:00	3.49	Rain Event
008	2/15/2016-2/16/2016	48:00	0.03	Rain Event
002	2/16/2016-2/17/2016	48:00	1.34	Rain Event
008	2/16/2016-2/17/2016	48:00	1.12	Rain Event
009	2/16/2016-2/17/2016	48:00	0.32	Rain Event
010	2/16/2016-2/18/2016	72:00	1.94	Rain Event
014	2/16/2016-2/18/2016	72:00	0.10	Rain Event
004	2/16/2016-2/20/2016	120:00	11.50	Rain Event
008	2/21/2016	24:00	0.03	Rain Event
008	2/22/2016	24:00	0.26	Rain Event
009	2/22/2016	24:00	0.08	Rain Event
010	2/22/2016	24:00	0.16	Rain Event
014	2/22/2016	24:00	0.01	Rain Event
002	2/22/2016-2/23/2016	48:00	0.75	Rain Event
008	2/24/2016	24:00	0.01	Rain Event
002	2/25/2016	24:00	0.35	Rain Event
008	2/25/2016	24:00	0.11	Rain Event
009	2/25/2016	24:00	0.001	Rain Event
010	2/25/2016	24:00	0.13	Rain Event
014	2/24/2016-2/25/2016	48:00	0.003	Rain Event
004	2/22/2016-2/26/2016	120:00	9.58	Rain Event
008	3/1/2016	24:00	0.01	Rain Event
009	3/1/2016	24:00	0.06	Rain Event
002	3/2/2016	24:00	0.33	Rain Event
008	3/2/2016	24:00	0.16	Rain Event
014	3/2/2016	24:00	0.003	Rain Event
010	3/2/2016-3/3/2016	48:00	0.12	Rain Event
014	3/4/2016	24:00	0.001	Rain Event
008	3/5/2016	24:00	0.007	Rain Event
009	3/5/2016	24:00	0.002	Rain Event
002	3/6/2016	24:00	0.13	Rain Event
008	3/6/2016	24:00	0.06	Rain Event
004	3/2/2016-3/7/2016	144:00	4.56	Rain Event
010	3/6/2016-3/7/2016	48:00	0.19	Rain Event
009	3/10/2016-3/11/2016	48:00	0.001	Rain Event
002	3/11/2016-3/12/2016	48:00	0.008	Rain Event
004	3/11/2016-3/12/2016	48:00	0.92	Rain Event
008	3/10/2016-3/12/2016	72:00	0.001	Rain Event
010	3/12/2016	24:00	0.12	Rain Event
008	3/14/2016	24:00	0.08	Rain Event
009	3/14/2016	24:00	0.007	Rain Event
002	3/15/2016	24:00	0.09	Rain Event

008	3/15/2016	24:00	0.17	Rain Event
004	3/15/2016-3/16/2016	48:00	1.80	Rain Event
010	3/15/2016-3/16/2016	48:00	0.15	Rain Event
008	3/20/2016	24:00	0.005	Rain Event
008	3/24/2016	24:00	0.01	Rain Event
009	3/24/2016	24:00	0.01	Rain Event
008	3/25/2016	24:00	0.08	Rain Event
004	3/25/2016-3/26/2016	48:00	1.13	Rain Event
010	3/25/2016-3/26/2016	48:00	0.14	Rain Event
008	3/28/2016	24:00	0.03	Rain Event
009	3/27/2016-3/28/2016	48:00	0.05	Rain Event
004	3/29/2016	24:00	0.61	Rain Event
008	3/29/2016	24:00	0.18	Rain Event
004	4/8/2016	24:00	0.15	Rain Event
009	4/7/2016-4/9/2016	72:00	0.0004	Rain Event
002	4/12/2016	24:00	0.005	Rain Event
008	4/12/2016	24:00	0.006	Rain Event
009	4/12/2016	24:00	0.0003	Rain Event
004	4/12/2016-4/13/2016	48:00	0.45	Rain Event
006	4/27/2016	24:00	0.004	Rain Event
008	4/26/2016-4/28/2016	72:00	0.12	Rain Event
002	4/27/2016-4/29/2016	72:00	1.19	Rain Event
004	4/27/2016-4/29/2016	72:00	2.86	Rain Event
008	4/27/2016-4/29/2016	72:00	0.55	Rain Event
009	4/27/2016-4/29/2016	72:00	0.12	Rain Event
010	4/29/2016	24:00	0.38	Rain Event
008	5/1/2016	24:00	0.09	Rain Event
006	5/2/2016	24:00	0.01	Rain Event
008	5/2/2016	24:00	0.30	Rain Event
009	5/1/2016-5/2/2016	48:00	0.04	Rain Event
008	5/3/2016	24:00	0.002	Rain Event
012	5/2/2016-5/3/2016	48:00	0.49	Rain Event
002	5/1/2016-5/4/2016	96:00	1.38	Rain Event
004	5/2/2016-5/4/2016	72:00	2.41	Rain Event
008	5/4/2016	24:00	0.02	Rain Event
009	5/4/2016	24:00	0.0009	Rain Event
010	5/1/2016-5/4/2016	96:00	1.22	Rain Event
008	5/10/2016-5/11/2016	48:00	0.03	Rain Event
002	5/11/2016-5/12/2016	48:00	0.60	Rain Event
004	5/11/2016-5/12/2016	48:00	0.82	Rain Event
008	5/11/2016-5/12/2016	48:00	0.24	Rain Event
009	5/11/2016-5/12/2016	48:00	0.04	Rain Event
008	5/14/2016	24:00	0.005	Rain Event
002	5/15/2016	24:00	0.04	Rain Event
004	5/15/2016	24:00	0.06	Rain Event
008	5/15/2016	24:00	0.04	Rain Event
009	5/15/2016	24:00	0.03	Rain Event
002	5/19/2016	24:00	0.02	Rain Event
004	5/18/2016-5/19/2016	48:00	0.54	Rain Event
009	5/19/2016	24:00	0.0004	Rain Event
008	5/20/2016-5/21/2016	48:00	0.07	Rain Event
002	5/21/2016-5/22/2016	48:00	0.64	Rain Event
004	5/21/2016-5/22/2016	48:00	1.31	Rain Event
008	5/21/2016-5/22/2016	48:00	0.29	Rain Event
009	5/21/2016-5/22/2016	48:00	0.05	Rain Event
014	5/20/2016-5/27/2016	192:00	0.38	Rain Event
004	6/3/2016	24:00	1.06	Rain Event
006	6/3/2016	24:00	0.07	Rain Event
010	6/3/2016	24:00	1.14	Rain Event

012	6/3/2016	24:00	0.33	Rain Event
006	6/5/2016	24:00	0.002	Rain Event
008	6/2/2016-6/5/2016	96:00	0.94	Rain Event
009	6/2/2016-6/5/2016	96:00	0.70	Rain Event
002	6/3/2016-6/6/2016	96:00	3.46	Rain Event
004	6/5/2016-6/6/2016	48:00	0.58	Rain Event
008	6/3/2016-6/6/2016	96:00	0.25	Rain Event
010	6/5/2016-6/6/2016	48:00	0.09	Rain Event
014	6/2/2016-6/7/2016	144:00	0.07	Rain Event
008	6/15/2016	24:00	0.16	Rain Event
009	6/15/2016	24:00	0.23	Rain Event
002	6/16/2016	24:00	0.65	Rain Event
004	6/16/2016	24:00	0.07	Rain Event
006	6/16/2016	24:00	0.006	Rain Event
012	6/16/2016	24:00	0.008	Rain Event
010	6/16/2016	24:00	0.38	Rain Event
008	6/23/2016	24:00	0.37	Rain Event
009	6/22/2016-6/23/2016	48:00	0.25	Rain Event
006	6/24/2016	24:00	0.03	Rain Event
008	6/24/2016	24:00	0.42	Rain Event
002	6/23/2016-6/25/2016	72:00	1.05	Rain Event
004	6/24/2016-6/26/2016	72:00	2.62	Rain Event
002	6/28/2016	24:00	0.05	Rain Event
008	6/28/2016	24:00	0.15	Rain Event
004	7/5/2016	24:00	0.50	Rain Event
006	7/5/2016	24:00	0.001	Rain Event
008	7/5/2016	24:00	0.43	Rain Event
012	7/5/2016	24:00	0.15	Rain Event
002	7/5/2016-7/7/2016	72:00	0.92	Rain Event
004	7/8/2016	24:00	0.0004	Rain Event
008	7/7/2016-7/9/2016	72:00	0.11	Rain Event
002	7/13/2016	24:00	0.09	Rain Event
008	7/13/2016	24:00	0.09	Rain Event
002	7/15/2016	24:00	0.27	Rain Event
004	7/15/2016	24:00	0.23	Rain Event
008	7/15/2016	24:00	0.21	Rain Event
002	7/23/2016	24:00	0.05	Rain Event
009	7/23/2016	24:00	0.0003	Rain Event
002	7/27/2016	24:00	0.27	Rain Event
006	7/27/2016	24:00	0.013	Rain Event
008	7/26/2016-7/27/2016	48:00	0.14	Rain Event
009	7/26/2016-7/27/2016	48:00	0.001	Rain Event
002	7/29/2016	24:00	1.16	Rain Event
004	7/29/2016	24:00	1.19	Rain Event
006	7/29/2016	24:00	0.03	Rain Event
008	7/29/2016	24:00	0.90	Rain Event
009	7/29/2016	24:00	0.50	Rain Event
012	7/29/2016	24:00	0.29	Rain Event
006	8/16/2016	24:00	0.02	Rain Event
008	8/15/2016-8/17/2016	72:00	1.21	Rain Event
006	8/18/2016	24:00	0.14	Rain Event
008	8/16/2016-8/18/2016	72:00	2.57	Rain Event
009	8/16/2016-8/18/2016	72:00	1.40	Rain Event
010	8/16/2016-8/18/2016	72:00	1.06	Rain Event
002	8/16/2016-8/19/2016	96:00	3.86	Rain Event
004	8/16/2016-8/19/2016	96:00	3.05	Rain Event
012	8/18/2016-8/19/2016	48:00	0.63	Rain Event
008	8/20/2016	24:00	0.004	Rain Event
002	8/21/2016	24:00	0.02	Rain Event

008	8/21/2016	24:00	0.03	Rain Event
009	8/21/2016	24:00	0.0008	Rain Event
014	8/15/2016-8/21/2016	168:00	0.13	Rain Event
002	9/1/2016	24:00	0.08	Rain Event
008	9/1/2016	24:00	0.08	Rain Event
009	9/1/2016	24:00	0.03	Rain Event
008	9/10/2016	24:00	0.003	Rain Event
008	9/11/2016	24:00	0.002	Rain Event
009	9/11/2016	24:00	0.003	Rain Event
008	9/17/2016-9/18/2016	48:00	0.05	Rain Event
014	9/17/2016-9/18/2016	48:00	0.002	Rain Event
004	9/19/2016	24:00	0.5	Rain Event
009	9/18/2016-9/19/2016	48:00	0.09	Rain Event
008	9/28/2016-9/29/2016	48:00	0.03	Rain Event
014	9/28/2016-9/29/2016	48:00	0.01	Rain Event
002	9/29/2016-9/30/2016	48:00	0.36	Rain Event
008	9/29/2016-9/30/2016	48:00	0.42	Rain Event
009	9/29/2016-9/30/2016	48:00	0.06	Rain Event
008	10/20/2016-10/21/2016	48:00	0.08	Rain Event
002	10/21/2016-10/22/2016	48:00	0.85	Rain Event
004	10/22/2016	24:00	1.92	Rain Event
008	10/21/2016-10/22/2016	48:00	0.75	Rain Event
009	10/21/2016-10/22/2016	48:00	0.16	Rain Event
014	10/20/2016-10/22/2016	72:00	0.03	Rain Event
002	11/3/2016	24:00	0.22	Rain Event
004	11/3/2016	24:00	0.16	Rain Event
008	11/3/2016	24:00	0.13	Rain Event
009	11/3/2016	24:00	0.02	Rain Event
014	11/2/2016-11/3/2016	48:00	0.002	Rain Event
002	11/8/2016-11/9/2016	48:00	0.19	Rain Event
008	11/8/2016-11/9/2016	48:00	0.07	Rain Event
009	11/8/2016-11/9/2016	48:00	0.0006	Rain Event
014	11/9/2016	24:00	0.001	Rain Event
004	11/8/2016-11/10/2016	72:00	1.01	Rain Event
012	11/9/2016-11/10/2016	48:00	0.95	Rain Event
009	11/17/2016-11/19/2016	72:00	0.006	Rain Event
002	11/19/2016	24:00	0.004	Rain Event
006	11/19/2016	24:00	0.004	Rain Event
014	11/19/2016	24:00	0.0005	Rain Event
002	11/24/2016	24:00	0.002	Rain Event
006	11/24/2016	24:00	0.002	Rain Event
002	11/29/2016-11/30/2016	48:00	0.57	Rain Event
004	11/30/2016	24:00	0.37	Rain Event
006	11/29/2016-11/30/2016	48:00	0.57	Rain Event
008	11/29/2016-11/30/2016	48:00	0.61	Rain Event
009	11/29/2016-11/30/2016	48:00	0.22	Rain Event
010	11/30/2016	24:00	0.05	Rain Event
012	11/30/2016	24:00	0.0003	Rain Event
014	11/28/2016-11/30/2016	72:00	0.007	Rain Event
004	12/6/2016	24:00	0.44	Rain Event
008	12/6/2016	24:00	0.19	Rain Event
009	12/6/2016	24:00	0.004	Rain Event
002	12/6/2016-12/7/2016	48:00	0.70	Rain Event
014	12/4/2016-12/7/2016	96:00	0.003	Rain Event
002	12/11/2016-12/12/2016	48:00	0.57	Rain Event
004	12/12/2016	24:00	0.91	Rain Event
008	21/11/2016-12/12/2016	48:00	0.39	Rain Event
009	21/11/2016-12/12/2016	48:00	0.02	Rain Event
010	12/12/2016	24:00	0.06	Rain Event

014	12/9/2016-12/12/2016	96:00	0.01	Rain Event
002	12/18/2016	24:00	1.02	Rain Event
006	12/18/2016	24:00	0.005	Rain Event
008	12/18/2016	24:00	0.81	Rain Event
009	12/17/2016-12/18/2016	48:00	0.47	Rain Event
010	12/18/2016	24:00	0.04	Rain Event
012	12/18/2016	24:00	0.49	Rain Event
014	12/18/2016	24:00	0.001	Rain Event
004	12/18/2016-12/19/2016	48:00	3.35	Rain Event
002	12/24/2016	24:00	0.08	Rain Event
008	12/24/2016	24:00	0.22	Rain Event
009	12/24/2016	24:00	0.008	Rain Event
014	12/22/2016-12/24/2016	72:00	0.003	Rain Event
004	12/27/2016	24:00	0.14	Rain Event
014	12/26/2016-12/27/2016	48:00	0.002	Rain Event
009	12/27/2016-12/28/2016	48:00	0.12	Rain Event
002	12/27/2016-12/29/2016	72:00	0.21	Rain Event
008	12/27/2016-12/29/2016	72:00	0.31	Rain Event
014	12/29/2016-12/31/2016	72:00	0.002	Rain Event

Notes:

1. This form must be completed even if information has been submitted to meet other KPDES permit requirements.
2. "CSO No." means the KPDES CSO No. listed on the active KPDES permit for each Combined Sewer Overflow outfall and in EPA's ICIS program as a Permitted Feature.
3. Discharge events should be listed in chronological order. For discharges from multiple CSOs that occurred at the same time, list the CSOs in order by CSO No. for each date/time.

Comments:

All discharge events were assumed to have a duration of 24 hours per day for every day they were active.

VI. CSO DISCHARGES

C. Dry Weather Overflow Events

List each discharge event that occurred during the reporting period for each CSO listed in section III.A of this report during dry weather or not as a result of a precipitation event.

<i>CSO No.³</i>	<i>Start and Stop Date/Time</i>	<i>Duration (hours:minutes)</i>	<i>Volume Discharged (million gallons)</i>	<i>Cause</i>
014	6/15/2016-6/30/2016	384:00	0.23	Trace rain. Possible screens
014	9/1/2016-9/10/2016	240:00	0.01	Due to false reads
014	10/26/2016	24:00	0.0005	Screens or possibly false reads
014	10/29/2016	24:00	0.0006	Screens or possibly false reads
014	10/31/2016	24:00	0.0006	Screens or possibly false reads

Notes:

1. This form must be completed even if information has been submitted to meet other KPDES permit requirements.
2. "CSO No." means the KPDES CSO No. listed on the active KPDES permit for each Combined Sewer Overflow outfall and in EPA's ICIS program as a Permitted Feature.
3. Discharge events should be listed in chronological order. For discharges from multiple CSOs that occurred at the same time, list the CSOs in order by CSO No. for each date/time.

Comments:

All overflow events were assumed to have a duration of 24 hours per day for every day they were active.

"False Reads" are suspected flow metering equipment erroneous readings

"Screens" are when the manually raked bar screen may have been blinded.

VII. PRECIPITATION

A. Annual Total Precipitation

List the totals for precipitation for the reporting period.

Total number of precipitation events **63** Total depth of precipitation (inches) **37.94**

B. Precipitation Events

List each precipitation event that may have impacted the combined sewer system during the reporting period. Provide the location of each rain gauge or describe the source of the precipitation information.

<i>Start and Stop Date/Time</i>	<i>Duration (hours:minutes)</i>	<i>Rainfall Depth (inches)</i>	<i>Source</i>
1/8/2016-1/10/2016	72:00	0.47	WWTP Rain Gauge
1/12/2016	24:00	0.01	WWTP Rain Gauge
1/15/2016	24:00	0.05	WWTP Rain Gauge
1/21/2016	24:00	0.01	WWTP Rain Gauge
1/24/2016-1/25/2016	48:00	0.1	WWTP Rain Gauge
1/28/2016	24:00	0.01	WWTP Rain Gauge
2/1/2016-2/3/2016	72:00	1.05	WWTP Rain Gauge
2/8/2016	24:00	0.02	WWTP Rain Gauge
2/15/2016-2/16/2016	48:00	1.76	WWTP Rain Gauge
2/21/2016-2/25/2016	120:00	1.04	WWTP Rain Gauge
2/29/2016-3/1/2016	48:00	0.48	WWTP Rain Gauge
3/3/2016-3/5/2016	72:00	0.55	WWTP Rain Gauge
3/10/2016-3/11/2016	48:00	0.33	WWTP Rain Gauge
3/13/2016-3/14/2016	48:00	0.40	WWTP Rain Gauge
3/19/2016	24:00	0.15	WWTP Rain Gauge
3/24/2016-3/25/2016	48:00	0.39	WWTP Rain Gauge
3/27/2016-3/28/2016	48:00	0.29	WWTP Rain Gauge
4/1/2016	24:00	0.03	WWTP Rain Gauge
4/4/2016	24:00	0.01	WWTP Rain Gauge
4/6/2016-4/12/2016	168:00	0.70	WWTP Rain Gauge
4/21/2016-4/22/2016	48:00	0.19	WWTP Rain Gauge
4/26/2016-4/28/2016	72:00	1.02	WWTP Rain Gauge
4/30/2016-5/5/2016	144:00	1.34	WWTP Rain Gauge
5/8/2016	24:00	0.08	WWTP Rain Gauge
5/10/2016-5/14/2016	120:00	0.80	WWTP Rain Gauge
5/17/2016-5/18/2016	48:00	0.54	WWTP Rain Gauge
5/20/2016-5/21/2016	48:00	0.67	WWTP Rain Gauge
5/26/2016-5/27/2016	48:00	0.04	WWTP Rain Gauge
6/2/2016-6/5/2016	96:00	3.13	WWTP Rain Gauge
6/12/2016	24:00	0.02	WWTP Rain Gauge
6/15/2016	24:00	0.83	WWTP Rain Gauge
6/21/2016-6/24/2016	96:00	1.46	WWTP Rain Gauge
6/27/2016	24:00	0.12	WWTP Rain Gauge
7/1/2016	24:00	0.06	WWTP Rain Gauge
7/3/2016-7/8/2016	144:00	1.51	WWTP Rain Gauge
7/12/2016	24:00	0.4	WWTP Rain Gauge
7/14/2016-7/15/2016	48:00	0.47	WWTP Rain Gauge
7/22/2016-7/23/2016	48:00	0.20	WWTP Rain Gauge
7/25/2016-7/26/2016	48:00	0.61	WWTP Rain Gauge
7/28/2016	24:00	1.52	WWTP Rain Gauge
8/1/2016	24:00	0.05	WWTP Rain Gauge
8/11/2016	24:00	0.01	WWTP Rain Gauge
8/14/2016-8/17/2016	96:00	3.90	WWTP Rain Gauge
8/20/2016-8/22/2016	72:00	0.25	WWTP Rain Gauge
8/31/2016	24:00	0.33	WWTP Rain Gauge
9/10/2016	24:00	0.13	Roberts Drive Rain Gauge
9/17/2016-9/18/2016	48:00	0.88	Roberts Drive Rain Gauge
9/28/2016-9/30/2016	72:00	1.02	Roberts Drive Rain Gauge

10/20/2016-10/21/2016	48:00	1.99	WWTP Rain Gauge
11/1/2016	24:00	0.01	WWTP Rain Gauge
11/3/2016-11/4/2016	48:00	0.48	WWTP Rain Gauge
11/7/2016-11/10/2016	96:00	0.35	WWTP Rain Gauge
11/19/2016	24:00	0.13	WWTP Rain Gauge
11/23/2016-11/24/2016	48:00	0.18	WWTP Rain Gauge
11/28/2016-11/30/2016	72:00	1.22	WWTP Rain Gauge
12/4/2016	24:00	0.04	WWTP Rain Gauge
12/6/2016	24:00	0.62	WWTP Rain Gauge
12/11/2016-12/12/2016	48:00	0.73	WWTP Rain Gauge
12/17/2016-12/18/2016	48:00	1.46	WWTP Rain Gauge
12/21/2016	24:00	0.01	WWTP Rain Gauge
12/23/2016-12/24/2016	48:00	0.48	WWTP Rain Gauge
12/26/2016-12/29/2016	96:00	0.78	WWTP Rain Gauge
12/31/2016	24:00	0.03	WWTP Rain Gauge

Notes:

1. This form must be completed even if information has been submitted to meet other KPDES permit requirements.
2. Precipitation events should be listed in chronological order.

Comments:

All rain events were assumed to have a duration of 24 hours per day for every day they were active.

VIII. CERTIFICATION STATEMENT¹

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name:

Mr. Ms. Ryan Eastwood, P.E.

B. Title: Director of Engineering and Utilities

C. Phone: 606-327-2008

D. Email: reastwood@ashlandky.org

E. Mailing Address:

1. Street: 1700 Greenup Avenue, Suite 408

2. City: Ashland

3. State: Kentucky

4. Zip Code: 41105

F. Signature²:



G. Date:

3-28-17

Notes:

1. Federal and state statutes provide for severe penalties for submitting false information in this report. Federal and state regulations require this report to be signed by a principal executive officer, ranking elected official or other duly authorized employee. The duly authorized employee must be an individual or position having responsibility for the overall operation of the combined sewer system, collection system or wastewater treatment plant.
2. Either a hand signed or electronically signed form will be considered acceptable.

ATTACHMENT A
SUMMARY OF SANITARY SEWER OVERFLOWS

This section provides an account of the number of occurrences of overflows including unauthorized discharges from the combined and separate sewer systems. Paragraph CJ-21B of the Consent Decree requests information on these discharges for the reporting period of 2016. Volume estimating methods for SSOs remained consistent with historical reporting methods for the duration of this reporting period.

Table A-1 presents the individual occurrences of SSOs during the current reporting period. When available, referenced photo (including those made available by Louisville-Jefferson County Metropolitan Sewer District for estimating overflow rates from manholes) were used to provide an approximate flow rate. This flow rate was used with the known duration of the overflow to provide a volume estimate for several overflows. In other instances, this method was not appropriate and a description of the overflow or approximation based on response staff experience has been provided.

Table A-2 lists all backups attributed to private property lateral issues. The City of Ashland (City) often responds to homeowner complaints of a backup; however, the problem is often not in the City's sewer system. These private property backups are not considered SSOs.

Several private lateral overflows and SSOs were the result of repairs or projects completed to repair or upgrade portions of the system.

Based on the City's records, there were three locations where overflows occurred at least twice in a 12-month period. The corrective actions column in Table A-1 describes the unique circumstances of these overflows and justifies why they are not "recurring" SSOs. The City has taken proactive steps to address each location and reduce the likelihood of any additional overflows. The entire length of the 39th Street sewer that had eight SSOs in 2014 has been upsized from a 12- and 15-inch sewer to an 18-inch sewer to eliminate the bottleneck created by earlier construction. Construction of the sewer upgrade was completed in June 2014. The City continued to cut the roots out in the remaining section in order to get a camera in to determine whether replacement is necessary, or just point repair. The City will budget a capital project for further trunk replacement in 2017, if it is determined to be necessary. Since the City is addressing these overflows, an SSOP is not deemed necessary and is not planned.

TABLE A-1

SUMMARY OF SSOs

Date	Location, Including Source	Time and Date Respondent Became Aware	Time and Date Crew Responded	Time and Date SSO Ceased, If Any	Time and Date Corrective Action was Complete	Estimated SSO Volume	Ultimate Destination of Overflow (water body, storm drain, dry land, building)	Cause (grease, roots, other blockage, wet weather, loss of power, pump failure)	How Was It Reported?	Description of Corrective Actions Taken to Stop SSO	Description of Corrective Actions Taken to Prevent This or Similar SSOs in Future	Is This A Recurring SSO?
January 4, 2016	1000 Shelby 8-inch main	1/4/16 1:31 PM	1/4/16 1:31 PM	1/4/16 1:45 PM	1/4/16 1:45 PM	Not available	Ohio River	Clay to plastic boot loose in creek	Call to KDOW	Replaced boot		
January 6, 2016	32nd Street and Chatteroi 8-inch main	1/6/16 10:35 AM	1/6/16 10:35 AM	1/6/16 11:34 AM	1/6/16 11:34 AM	Manhole overflowing	Ohio River	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage		
January 7, 2016	1720 Ray Street 8-inch main	1/7/16 1:58 PM	1/7/16 1:58 PM	1/7/16 3:05 PM	1/7/16 3:05 PM	Manhole overflowing	Clyffside Branch	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage		
January 26, 2016	2610 Oakview Road 8-inch main	1/26/16 9:00 AM	1/26/16 9:00 AM	1/26/16 9:20 AM	1/26/16 9:20 AM	Manhole overflowing	Clyffside Branch	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage		
January 31, 2016	3447 Thompson Drive 8-inch main	1/31/16 4:19 PM	1/31/16 4:19 PM	1/31/16 5:41 PM	1/31/16 5:41 PM	Manhole overflowing	Keys Creek	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage		
February 10, 2016	805 East Street 18-inch main	2/10/16 8:50 AM	2/10/16 8:50 AM	2/10/16 10:15 AM	2/10/16 10:15 AM	Not available	Keys Creek	Unknown blockage	Call to KDOW	Ran jet truck to open blockage		
February 21, 2016	3116 Mason Street 6-inch main	2/21/16 11:21 AM	2/21/16 11:21 AM	2/21/16 11:38 AM	2/21/16 11:38 AM	Not available	Basement	Unknown blockage	Call to KDOW	Ran jet truck to open blockage		
February 22, 2016	13th Street Shell Station 6-inch main	2/22/16 8:40 AM	2/22/16 8:40 AM	2/22/16 9:20 AM	2/22/16 9:20 AM	Not available	Little Hood Creek	Rags blockage	Call to KDOW	Ran jet truck to open blockage		
March 1, 2016	4037 State Route 168 8-inch main	3/1/16 11:57 AM	3/1/16 11:57 AM	3/1/16 1:24 PM	3/1/16 1:24 PM	Manhole overflowing	Keys Creek	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage		
March 2, 2016	3320 Simpson Road 8-inch main	3/2/16 12:42 PM	3/2/16 12:42 PM	3/2/16 1:14 PM	3/2/16 1:14 PM	Not available	Clyffside Branch	Root blockage	Call to KDOW	Ran root cutter to open blockage, put line back together		
March 14, 2016	ACC College in Creek 12-inch main	3/14/16 8:13 AM	3/14/16 8:13 AM	3/14/16 8:59 AM	3/14/16 8:59 AM	Not available	Ohio River	Unknown blockage	Call to KDOW	Ran jet truck to open blockage		
March 14, 2016	17th Street and Greenup Avenue 18-inch main	3/14/16 5:27 PM	3/14/16 5:27 PM	3/14/2016 15:47 PM	3/14/2016 15:47 PM	Manhole overflowing	Ohio River	Heavy rain	Call to KDOW	None		
March 15, 2016	2106 East Altamont Drive 8-inch main	3/15/16 12:30 PM	3/15/16 12:30 PM	3/16/16 10:22 AM	3/16/16 10:22 AM	Not available	Clyffside Branch	Broken pipe	Call to KDOW	Repaired pipe		
April 14, 2016	2711 Seminole Avenue 6-inch main	4/14/16 11:11 AM	4/14/16 11:11 AM	4/14/16 1:55 PM	4/14/16 1:55 PM	Not available	Little Hood Creek	Broken pipe	Call to KDOW	Replaced pipe in creek		
April 15, 2016	1520 Chestnut Hill Drive 6-inch main	4/15/16 7:50 AM	4/15/16 7:50 AM	4/15/16 8:30 AM	4/15/16 8:30 AM	Not available	Ohio River	While washing main water came out at clean out	Call to KDOW	Wash out line		Yes
April 18, 2016	4812 Blackburn Avenue 10-inch main	4/18/16 1:47 PM	4/18/16 1:47 PM	4/19/16 10:05 AM	4/19/16 10:05 AM	Not available	Keys Creek	Tree fell on pipe	Call to KDOW	Repaired pipe		
April 21, 2016	2450 Oakview Road 8-inch main	4/21/16 2:08 PM	4/21/16 2:08 PM	4/21/16 4:20 PM	4/21/16 4:20 PM	Not available	Clyffside Branch	Unknown blockage caused flow out of hole in side of manhole	Call to KDOW	Ran jet truck to open blockage	Repair manhole at later date	Yes
April 22, 2016	1331 May Street 8-inch main	4/22/16 8:45 PM	4/22/16 8:45 PM	4/22/16 11:30 PM	4/22/16 11:30 PM	Not available	basement	Grease blockage	Call to KDOW	Ran jet truck to open blockage	Put 10 lbs of grain acid in line on 4/23/216	
April 28, 2016	501 39th Street 8-inch main	4/28/16 1:00 PM	4/28/16 1:00 PM	4/28/16 3:05 PM	4/28/16 3:05 PM	Not available	Clyffside Branch	Line broken by water department	Call to KDOW	Replaced broken section of pipe		
April 28, 2016	841 Highland Avenue 8-inch main	4/28/16 6:30 PM	4/28/16 6:30 PM	4/28/16 7:00 PM	4/28/16 7:00 PM	Not available	Basement	Unknown blockage	Call to KDOW	Ran jet truck to open blockage	Root cut and camera line at later date	
April 28, 2016	YMCA Old 13th Street 8-inch main	4/28/16 8:35 PM	4/28/16 8:35 PM	4/28/16 9:00 PM	4/28/16 9:00 PM	Manhole overflowing	Little Hood Creek	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage	Camera line at later date	
May 6, 2016	2429 Moore Street 8-inch main	5/6/16 9:59 AM	5/6/16 9:59 AM	5/6/16 10:50 AM	5/6/16 10:50 AM	Not available	Clyffside Branch	Storm line collapsed causing break in sewer main	Call to KDOW	Replace broken section of pipe		
May 31, 2016	4819 Crittenden Road 8-inch main	5/31/16 9:30 AM	5/31/16 9:30 AM	5/31/16 1:30 PM	5/31/16 1:30 PM	Not available	Keys Creek	Broken pipe	Call to KDOW	Repaired pipe		
June 1, 2016	2601 Elwood Drive 8-inch main	6/1/16 1:00 PM	6/1/16 1:00 PM	10/27/16 12:30 PM	10/27/16 12:30 PM	Not available	Little Hood Creek	Sewer coming out of ground	Call to KDOW	Repair work		
July 1, 2016	913 Weymouth 8-inch main	7/1/16 2:21 PM	7/1/16 2:21 PM	7/1/16 3:17 PM	7/1/16 3:17 PM	Manhole overflowing	Ohio River	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage		
July 22, 2016	3908 Duke Street 8-inch main	7/22/16 1:04 PM	7/22/16 1:04 PM	7/22/16 10:18 PM	7/22/16 10:18 PM	Manhole overflowing	Clyffside Branch	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage	Camera line at later date- found roots	
July 27, 2016	1201 Turner Street 8-inch main	7/27/16 3:36 PM	7/27/16 3:36 PM	8/30/16 8:05 AM	8/30/16 8:05 AM	Not available	Little Hood Creek	Unknown blockage causing splashing at manhole	Call to KDOW	Relayed line and set new drop manhole		
August 17, 2016	1521 Chestnut Avenue 6-inch main	8/17/16 4:00 PM	8/17/16 4:00 PM	8/17/16 4:10 PM	8/17/16 4:10 PM	Not available	Basement	Water backed up in basement	Call to KDOW	Ran jet truck to open blockage	Camera line on 8/19/2016- found roots and put acid in line	
September 7, 2016	1521 Chestnut Avenue 8-inch main	9/7/16 1:15 PM	9/7/16 1:15 PM	9/7/16 2:15 PM	9/7/16 2:15 PM	Not available	Ohio River	Broken pipe and roots in pipe	Call to KDOW	Replaced broken section of pipe		
September 8, 2016	5225 Blackburn Avenue 8-inch main	9/8/16 8:45 AM	9/8/16 8:45 AM	9/8/16 10:40 AM	9/8/16 10:40 AM	Not available	Keys Creek	Broken pipe	Call to KDOW	Replaced broken section of pipe		
September 12, 2016	5201 Blackburn Avenue 8-inch main	9/12/16 9:00 AM	9/12/16 9:00 AM	9/12/16 11:00 AM	9/12/16 11:00 AM	Not available	Keys Creek	Broken pipe	Call to KDOW	Replaced broken section of pipe		
September 26, 2016	4607 Sherwood Drive 8-inch main	9/26/16 10:30 AM	9/26/16 10:30 AM	9/26/16 10:50 AM	9/26/16 10:50 AM	Not available	Keys Creek	Line broken by water works	Call to KDOW	Replaced broken section of pipe		
September 28, 2016	1100 Shelby Avenue 8-inch main	9/28/16 12:40 PM	9/28/16 12:40 PM	9/28/16 2:30 PM	9/28/16 2:30 PM	Not available	Little Hood Creek	Pipe pulled apart in creek	Call to KDOW	Repaired pipe		

TABLE A-1 (Cont'd)

SUMMARY OF SSOs

Date	Location, Including Source	Time and Date Respondent Became Aware	Time and Date Crew Responded	Time and Date SSO Ceased, If Any	Time and Date Corrective Action was Complete	Estimated SSO Volume	Ultimate Destination of Overflow (water body, storm drain, dry land, building)	Cause (grease, roots, other blockage, wet weather, loss of power, pump failure)	How Was It Reported?	Description of Corrective Actions Taken to Stop SSO	Description of Corrective Actions Taken to Prevent This or Similar SSOs in Future	Is This A Recurring SSO?
October 4, 2016	2501 Blackburn Avenue 8-inch main	10/4/16 9:20 AM	10/4/16 9:20 AM	10/4/16 2:30 PM	10/4/16 2:30 PM	Not available	Clyffeside Branch	Broken pipe	Call to KDOW	Replaced broken section of pipe		
October 5, 2016	5210 Blackburn Avenue 8-inch main	10/5/16 9:15 AM	10/5/16 9:15 AM	10/5/16 10:30 AM	10/5/16 10:30 AM	Not available	Keys Creek	Broken pipe	Call to KDOW	Replaced broken section of pipe		
October 5, 2016	5216 Blackburn Avenue 8-inch main	10/5/16 1:20 PM	10/5/16 1:20 PM	10/5/16 2:05 PM	10/5/16 2:05 PM	Not available	Keys Creek	Broken pipe	Call to KDOW	Replaced broken section of pipe		Yes
October 6, 2016	5216 Blackburn Avenue 8-inch main	10/6/16 8:30 AM	10/6/16 8:30 AM	10/6/16 9:00 AM	10/6/16 9:00 AM	Not available	Keys Creek	Gas service line run through top of pipe-caused breaks	Call to KDOW	Repaired pipe		Yes
October 31, 2016	47th Street and Winchester Avenue 12-inch main	10/31/16 1:00 PM	10/31/16 1:00 PM	10/31/16 7:18 PM	10/31/16 7:18 PM	Not available	Keys Creek	Broken pipe	Call to KDOW	Replaced broken section of pipe		
November 4, 2016	2450 Oakview Road 8-inch main	11/4/16 8:06 AM	11/4/16 8:06 AM	11/4/16 9:21 AM	11/4/16 9:21 AM	Not available	Clyffeside Branch	Manhole wall collapsed causing sewer line to back up	Call to KDOW	Ran jet truck to open blockage and rebuilt manhole wall		Yes
November 7, 2016	1030 39th Street	11/7/16 11:11 AM	11/7/16 11:11 AM	11/7/16 12:30 PM	11/7/16 12:30 PM	Manhole overflowing	Clyffeside Branch	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage		
November 9, 2016	9th Street and Central Avenue 12-inch main	11/9/16 10:28 AM	11/9/16 10:28 AM	11/9/16 3:00 PM	11/9/16 3:00 PM	Not available	Ohio River	Broke main while setting a new manhole and tap	Call to KDOW	Repaired pipe		
November 23, 2016	1605 Ferguson Street 6-inch main	11/23/16 9:45 AM	11/23/16 9:45 AM	11/23/16 1:50 PM	11/23/16 1:50 PM	Not available	Clyffeside Branch	Root blockage	Call to KDOW	Removed roots and repaired pipe		
December 5, 2016	4006 Gartrell Street	12/5/16 1:50 PM	12/5/16 1:50 PM	12/5/16 2:08 PM	12/5/16 2:08 PM	Manhole overflowing	Clyffeside Branch	Manhole overflowing	Call to KDOW	Ran jet truck to open blockage	Camera line at later date	
December 15, 2016	1809 Beech Street 6-inch main	12/15/16 9:30 AM	12/15/16 9:30 AM	12/15/16 1:05 PM	12/15/16 1:05 PM	Not available	Little Hood Creek	Installing clean out	Call to KDOW	Repaired pipe		
December 23, 2016	Emery Street and 43rd Street 6-inch main	12/23/16 9:48 AM	12/23/16 9:48 AM	12/23/16 10:22 AM	12/23/16 10:22 AM	Not available	Clyffeside Branch	Unknown blockage	Call to KDOW	Ran jet truck to open blockage	Repair top of pipe	

Total SSO occurrences in 2016: 44.

Total volume of SSOs: Not available in 44 occurrences.

If information is not available, please explain why: The City did not collect or record this type of information on the daily worksheets or on the Damage/Loss Reports.

TABLE A-2

SUMMARY OF DOCUMENTED LATERAL ISSUES IN 2016

Date	Location, including source	Time and Date Respondent Became Aware	Time and Date Crew Responded	Time and Date SSO Ceased, If Any	Time and Date Corrective Action Was Complete	Estimated SSO Volume	Ultimate Destination of Overflow (water body, storm drain, dry land, building, etc)	Cause (grease, roots, other blockage, wet weather, loss of power, pump failure, etc)	How Was It Reported?	Description of Corrective Actions Taken	Description of Corrective Actions Taken to Prevent This or Similar In Future
February 4, 2016	55th Street and Apple Blossom Lane - 4" lateral	2/4/16 11:21 AM	2/4/16 11:21 AM	2/4/16 11:30 AM	2/4/16 11:30 AM	Not available	Haney Branch	Cleanout broken	Call to KDOW	Ran jet truck and repaired cleanout	
February 5, 2016	800 McCullough Street - 4" lateral	2/5/16 12:00 PM	2/5/16 12:00 PM	2/8/16 9:30 AM	2/8/16 9:30 AM	Not available	Little Hood Creek	Water break broke sewer lateral	Call to KDOW	Repaired lateral	
February 7, 2016	2913 Franklin Street - 4" lateral	2/7/16 8:53 PM	2/7/16 8:53 PM	2/7/16 9:35 PM	2/7/16 9:35 PM	Not available	Clyffeside Branch	Cleanout overflowing	Call to KDOW	Ran jet truck to open blockage	
February 21, 2016	2813 Hampton Street - 4" lateral	2/21/216 9:18 PM	2/21/216 9:18 PM	2/21/16 9:25 PM	2/21/16 9:25 PM	Not available	Clyffeside Branch	Rags blockage	Call to KDOW	Ran jet truck to open blockage	
March 24, 2016	4508 Blackburn - 4" lateral	3/24/16 12:57 PM	3/24/16 12:57 PM	3/24/16 2:13 PM	3/24/16 2:13 PM	Not available	Clyffeside Branch	Broken lateral	Call to KDOW	Repaired lateral	
April 1, 2016	1233 Gallaher Street - 4" lateral	4/1/16 2:23 PM	4/1/16 2:23 PM	4/4/16 11:30 AM	4/4/16 11:30 AM	Not available	Keys Creek	Lateral leaking under road	Call to KDOW	Repaired lateral and installed cleanout	
May 5, 2016	Old Foodland Building Pollard and 13th Street - 4" lateral	5/5/16 1:20 PM	5/5/16 1:20 PM	5/5/16 1:50 PM	5/5/16 1:50 PM	Not available	Ohio River	Cleanout overflowing	Call to KDOW	Ran jet truck to open blockage	
May 6, 2016	1719 Prospect Avenue - 4" lateral	5/6/16 5:50 PM	5/6/16 5:50 PM	5/6/2016 7:70 PM	5/6/2016 7:70 PM	Not available	Ohio River	Sewer coming out of ground	Call to KDOW	Ran jet truck to open blockage	
May 12, 2016	330 25th Street - 4" lateral	5/12/16 9:20 AM	5/12/16 9:20 AM	5/12/16 9:30 AM	5/12/16 9:30 AM	Not available	Ohio River	Cleanout overflowing	Call to KDOW	Ran jet truck to open blockage	
May 20, 2016	1515 Montgomery - 6" lateral	5/20/16 10:25 AM	5/20/16 10:25 AM	5/20/16 10:35 AM	5/20/16 10:35 AM	Not available	Ohio River	Cleanout overflowing	Call to KDOW	Ran jet truck to open blockage	
June 13, 2016	3814 Greenway Road - 4" lateral	6/13/16 9:48 AM	6/13/16 9:48 AM	6/29/16 9:40 AM	6/29/16 9:40 AM	Not available	Keys Creek	Lateral tap into main line was broken	Call to KDOW	Repaired lateral and main	
June 20, 2016	423 21st Street - 4" lateral	6/20/16 12:30 PM	6/20/16 12:30 PM	6/20/16 12:45 PM	6/20/16 12:45 PM	Not available	Ohio River	Lateral clogged on right of way cap	Call to KDOW	Ran jet truck to open blockage and replaced cap	
July 20, 2016	2134 Oakview Road - 4" lateral	7/20/16 11:50 AM	7/20/16 11:50 AM	7/20/16 12:50 PM	7/20/16 12:50 PM	Not available	Ohio River	Cleanout overflowing	Call to KDOW	Ran jet truck to open blockage	
December 8, 2016	1809 Beech Street - lateral	12/8/16 1:00 PM	12/8/16 1:00 PM	12/9/16 10:10 AM	12/9/16 10:10 AM	Not available	Little Hood Creek	Lateral line leak	Call to KDOW	Repaired lateral	

Total lateral backup occurrences (non-SSOs) in 2016: 14. Total volume of SSOs: Not available in 14 occurrences.
If information is not available, please explain why: The City did not collect nor record this type of information on the daily worksheets or on the Damage/Loss Reports.

ATTACHMENT B
SUMMARY OF COMPLIANCE, MANAGEMENT, OPERATIONS, AND
MAINTENANCE (CMOM) IMPLEMENTATION

SUMMARY OF CMOM IMPLEMENTATION

Paragraph CJ-16C requires the development of a CMOM program. This program was developed and submitted within the deadline of nine months after the entry of the Consent Judgment or June 5, 2008.

The City received comments on the CMOM report on June 5, 2009, and submitted a response to KDOW’s comments on August 3, 2009. The City’s CMOM was approved by the Kentucky Department for Environmental Protection in a letter dated March 28, 2013.

The City began tracking CMOM-related activities in 2009. See Table B-1 for CMOM-related activities in 2016.

Description	Number
Sewer Calls	191
SSOs	55
After-Hour Emergencies	51
New Sewer Main Extensions (ft)	164
Sewer Main Replacements (ft)	580
Sewer Main Repairs	58
New Lateral Pipe Installations (ft)	56
Lateral Pipe Replacements(ft)	225
Lateral Pipe Repairs	22
New Taps	8
Renewed or Repaired Taps	14
Clean Outs-Installed/Repaired/Sized	34
New Manhole Installations	16
Manhole Repairs	15
Manhole Adjustments to Grade	12
Main Line(s) Flushes (ft)	57,917
Camera Truck-Inspection (ft)	23,969
Dress Ups	31
Locates (for construction)	1,029
Smoke Tests	58
Dye Tests	32
Grease Trap Checks	321
Trouble Spot Checked or Treated	315
Compliance Issues	14

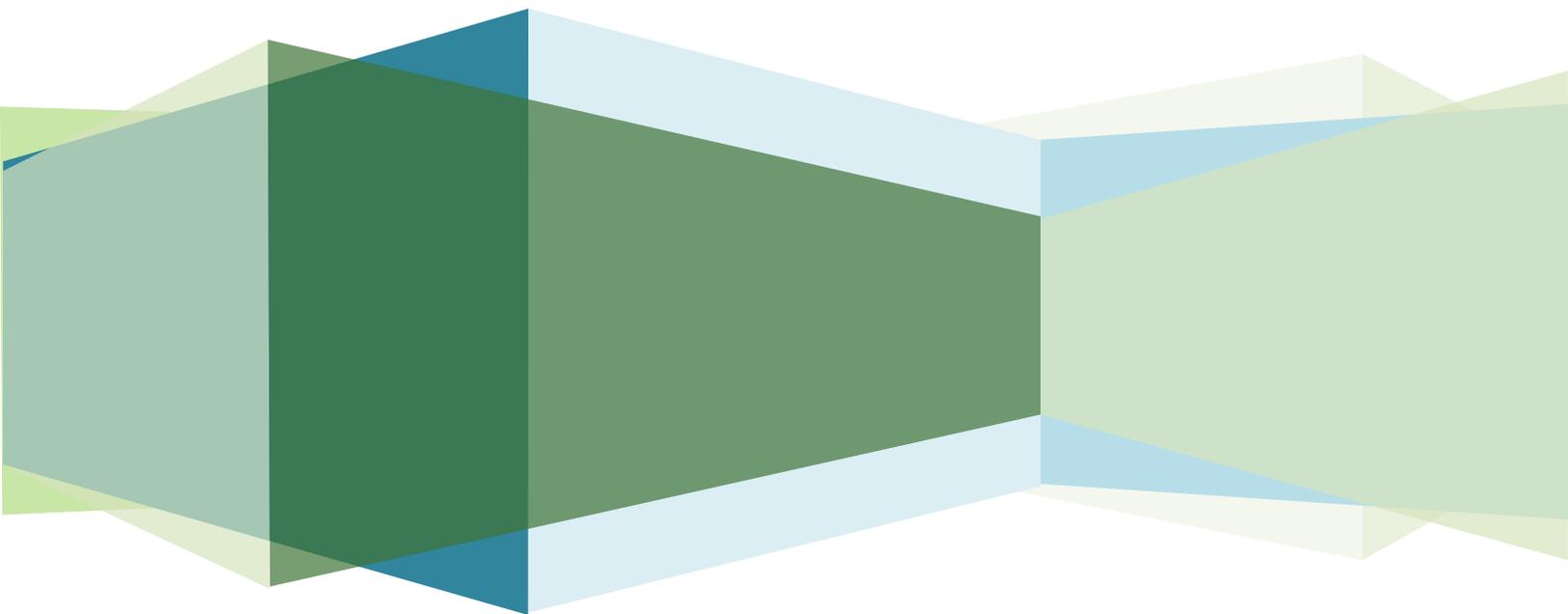
Table B-1 CMOM-Related Activities in 2016

ATTACHMENT C
RECOMMENDED PLAN IMPLEMENTATION SCHEDULE

Appendix “D”

Illicit Discharge & Elimination

- Summary of CSOs and SSOs
- 29th Street CSO Project Article



WASTEWATER COLLECTION - 8320 CALLOUT SHEET

<u>NAME</u>	<u>CELL PHONE</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
RAY HALE Superintendent, Col Sys Op IV	(606) 922 - 8353	(606) 388 - 2088	(606) 327- 2039
BRUCE WORTHINGTON Field Supervisor, Col Sys Op IV	(606) 694 - 2623		
JOHN BROWN Pump Station Technician, Col Sys Op III	(606) 571 - 0587		
STAN HARRIS Crew Leader, Col Sys Op III	(606) 331 - 8071		
MARK CADE Equipment Operator	(740) 547 - 7554		
DAVID PETITT Equipment Operator, Col Sys Op III	(606) 371 - 9205		
JEFFREY BURCHETT Collection System Operator III	(606) 694 - 1215		
William E. Boyd (Eric) Collection System Operator I (in Training)		(606) 329 - 2065	

RAYMOND BARNEY (606) 923 - 1020 (606) 327- 2039
Inventory Control Clerk, Col Sys Op III
**** BUILDING ACCESS / PARTS ONLY

RYAN EASTWOOD (606) 922 - 4495 (606) 327- 2008
Director of Engineering and Utilities

Distribution

R Eastwood	WR Hale	BE Worthington	R Downs	W. Ott
RA Barney	A McDowell	JW Brown	SC Harris	M Cade
D Pettit	JA Burchett	W Boyd	E Huffine	P Huffman
Wastewater Plant	Water Plant	Engineering		

Engineering / Utilities / Wastewater Collection 20

Wastewater Collection - Construction

Sewer Calls	191
SSO's	15
CSO's	16
After Hrs Emergencies	51
Damage Loss Report	15
Sink Holes	56
Odor Complaints	28
Rodent Complaints	4
Miscellaneous	16
Main - New	2
Main Extension or New (ft)	164
Main - Repair / Maintenance	58
Main - Replaced (ft)	580
Lateral - New	2
Lateral - New (ft)	56
Lateral - Repaired	22
Lateral - Replaced (ft)	225
Tap - New / Tie-in	8
Tap - Repair / Renewal	14
Clean/Out - Installed / Repaired	34
MH - Inspection	3
MH - New	16
MH - to Grade	12
MH - Repair	15
Dress-ups	31
Mains - Cut Roots	6
Mains - Cut Roots (ft) Total	3,322
Cut Roots water usage (in gal.)	7,300
Mains - City	241
Mains - Flushed (ft) Total	57,917
Vac Debris (Tons)	-
Vac Debris (yards)	8
Vac Debris (in gal.)	8,572
Flush water usage (in gal.)	338,197
Hydro-Escavate	22
Vac Debris (Tons)	2
Vac Debris (yards)	10
Vac Debris (in gal.)	-
Hydro water usage (in gal.)	9,525
Storm - Line wash	9
Storm - Lines (ft) Total	728
Vac Debris (Tons)	-
Vac Debris (yards)	8
Vac Debris (in gal.)	-
Storm water usage (in gal.)	11,350
Jobs Vac	12
Vac Debris (Tons)	29
Vac Debris (yards)	1
Vac Debris (in gal.)	13,500
Vac water usage (in gal.)	4,710
Cleaning Pump Station Well	5
Vac Debris (Tons)	-
Vac Debris (yards)	2
Vac Debris (in gal.)	8,500
Water used to clean well	2,000
Total water usage (in gal.)	373,489
Push Camera Lines	39
Camera, Push (ft)	1,308
Camera Truck lines, Ashland Sewer	166
Camera Truck (ft)	23,969
Camera Storm or other - Lines	4
Camera Storm or other - Lines (ft)	531
Hand Rodded (ft)	27
GIS - Geographical Information System	26
Locates	1,029
Smoke Test	58
Dye Test	32
Trouble Spots	315
Treat lines for ROOTS	11
Grease Traps	321
Compliance Issues	14
Compliance Follow-ups	9
Ditch / Creek lines Walked	10
Water Samples / Testing	1
Accident	5
28th Street Shop Maintenance	73
School / Continuing Education	29
Work Asset for other Departments	64
Water Distribution	29
Street Department	19
Wastewater Treatment Plant	8
Parks Department	3
Water Treatment Plant	2
Central Garage	1
City Pool	1
City of Catlettsburg	1

Wastewater Collection - Construction

Sewer Calls	191
SSO's	53
CSD's	56
After Hrs Emergencies	51
Damage Lost Report	15
Sink Holes	56
Odor Complaints	26
Rodent Complaints	4
Miscellaneous	16
Main - New	7
Main Extension or New (ft)	164
Main - Repair / Maintenance	58
Main - Replaced (ft)	580
Lateral - New	2
Lateral - New (ft)	56
Lateral - Repaired	22
Lateral - Replaced (ft)	225
Tap - New / Tie-in	8
Tap - Repair / Renewal	14
Clean/Out - Installed / Repaired	34
MH - Inspection	3
MH - New	16
MH - to Grade	12
MH - Repair	15
Dress-ups	31
Mains - Cut Roots	6
Mains - Cut Roots (ft) Total	3,322
Cut Roots water usage (in gal.)	7,300
Mains - City	241
Mains - Flushed (ft) Total	57,917
Vac Debris (Tons)	-
Vac Debris (yards)	8
Vac Debris (in gal.)	8,672
Flush water usage (in gal.)	334,397
Hydro-Excavate	22
Vac Debris (Tons)	2
Vac Debris (yards)	10
Vac Debris (in gal.)	-
Hydro water usage (in gal.)	9,625
Storm - Line wash	9
Storm - Lines (ft) Total	728
Vac Debris (Tons)	-
Vac Debris (yards)	9
Vac Debris (in gal.)	-
Storm water usage (in gal.)	11,358
Jobs Vac	12
Vac Debris (Tons)	29
Vac Debris (yards)	1
Vac Debris (in gal.)	13,500
Vac water usage (in gal.)	4,710
Cleaning Pump Station Well	5
Vac Debris (Tons)	-
Vac Debris (yards)	2
Vac Debris (in gal.)	8,500
Water used to clean well	2,000
Total water usage (in gal.)	373,489
Push Camera lines	39
Camera, Push (ft)	1,306
Camera Truck lines, Ashland sewer	166
Camera Truck (ft)	23,969
Camera Storm or other - Lines	4
Camera Storm or other - Lines (ft)	581
Hand Rodded (ft)	27
GIS - Geographical Information System	26
Locates	1,029
Smoke Test	58
Dye Test	32
Trouble Spots	315
Treat lines for ROOTS	11
Grease Traps	321
Compliance Issues	14
Compliance Follow-ups	9
Ditch / Creek lines Walked	10
Water Samples / Testing	1
Accident	5
28th Street Shop Maintenance	73
School / Continuing Education	29
Work Asset for other Departments	64
Water Distribution	29
Street Department	19
Wastewater Treatment Plant	8
Parks Department	3
Water Treatment Plant	2
Central Garage	1
City Pool	1
City of Callettsburg	1

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: June 1, 2016

Main Size: 8"

Est. Flow: _____

Time Found: June 1, 2016 1:00pm

Time Ending: October 27, 2016
12:30pm

Location: 2601 Elwood Dr.

Event Description: Sewer coming out of ground,
working on line and trying to find down
stream main.

Means of Solving Event: _____

Crewleader on Event: Stan Harris, Randy Spears, Alex Wellman,
David Pettit, Jeff Butchett, Adam Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

KY Department for Environmental Protection Electronic Submittals

Home **Notification** Manage User

- Navigate Notification
 - Report an Incident
 - Fill out a Form
 - Upload XML File

Type of Notification : eNotification Wastewater

Incident Type:(*) Overflow-Manhole- dry weather

Incident Start Date-Time:(*) 12/05/2016 1:50 pm (mm/dd/yyyy hh min am pm)

Incident End Date-Time: 12/05/2016 2:08 pm (mm/dd/yyyy hh:min am pm)

AI Name:(*) Ashland WWTP(308)

manhole over flowing

Nature of Incident:(*)

4006 Gartrell St.

Incident Location:(*)

The cause is unknown,ran jet truck and open the line.

Cause/Duration :(*)

Open the line and camera at later date. Brubaker creek

Action Taken :

Pollutant	CAS	Quantity	Units
Sewage			

[Search More Pollutant CAS](#)

Other Substance(s) :

County of Release :
Weather Conditions :
Receiving :
Release To :
Unnamed Tributary :

All form fields marked () are required fields.*

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KY Department for Environmental Protection Electronic Submittals

Home **Notification** Manage User

- Navigate Notification
 - Report an Incident
 - Fill out a Form
 - Upload XML File

Type of Notification : eNotification Wastewater

Incident Type:(*) OVERFLOW - LINE BREAK

Incident Start Date-Time:(*) 12/15/2016 9:30 am (mm dd yyyy hh min am/pm)

Incident End Date-Time: 12/15/2016 1:05 pm (mm dd yyyy hh min am/pm)

AI Name:(*) Ashland WWTP(308)

sewer in ditch

Nature of Incident:(*)

1809 Beech st.

Incident Location:(*)

Installing clean out ,sewer ran in ditch and back into sewer line.

Cause/Duration :(*)

Put pipe together.

Action Taken :

Pollutant	CAS	Quantity	Units
Sewage			

[Search More Pollutant/CAS](#)

Other Substance(s) :

County of Release :
Weather Conditions : cold
Receiving :
Release To :
Unnamed Tributary :

All form fields marked (*) are required fields.

For questions or help with your account or this web site, please send an email to [DEPTempoSA@](mailto:DEPTempoSA@dep.state.ky.us)

Raymond Barney

From: tickets@kentucky811.org
Sent: Thursday, December 08, 2016 2:42 PM
To: ashlandlocates@ashlandky.org
Subject: KUPI 0173 2016/12/08 #00021 1612081329-00A EMER NEW
Importance: High

0173 00021 KUPIa 12/08/2016 14:42:04 1612081329-00A EMER NEW STRT

EMERGENCY

Ticket : 1612081329 Date: 12/08/2016 Time: 14:38 Oper: BLIEVERTZ Chan:000

State: KY Cnty: BOYD City: ASHLAND
Subdivision:

Address : 1809
Street : BEECH ST
Cross 1 : WOODLAWN AVE
Location: LOCATE THE ENTIRE FRONT OF THE PROPERTY FROM THE HOUSE TO THE CENTER OF THE STREET FOR THE WIDTH OF THE PROPERTY

Boundary: n 38.458059 s 38.456402 w -82.661808 e -82.659103

Work type : REPAIR SEWER MAIN
Done for : CITY OF ASHLAND SEWER DEPARTMENT Start date: 12/09/2016 Time: 08:00 Hours notice: 17/17 Priority: EMER
Jg/Oh/Both: U Blasting: NO Emergency: Y
Duration : N/A Depth: 10 FEET

Company : CITY OF ASHLAND Type: MEMB
Co addr : P.O. BOX 1839
City : ASHLAND State: KY Zip: 41105
Caller : RAYMOND BARNEY Phone: (606)327-2039 Contact : RAYMOND BARNEY--CELL Phone:
Mobile : (606)327-2039
Fax : (606)324-0892
Mail : RBARNEY@ASHLANDKY.ORG

Submitted date: 12/08/2016 Time: 14:38
Members: 0015 0023 0165 0173 0367

Dig Ticket

Raymond Barney

From: windstreamprs@korweb.com
Sent: Thursday, December 08, 2016 2:55 PM
To: RBARNEY@ASHLANDKY.ORG
Subject: Ticket 1612081329 for 0015 - Status Change
Importance: High

Ticket 1612081329 for 0015 - Status Change

=====
Company: CITY OF ASHLAND Email: RBARNEY@ASHLANDKY.ORG
=====

Ticket Number: 1612081329
Work to Begin Date/Time: 12/09/2016 08:00:00 am
County: BOYD
City: ASHLAND
Address: 1809 BEECH ST
Contact: RAYMOND BARNEY
Phone: (606)327-2039

Member Code Facility Last Completion Date/Time

0015 CUSTOM2 12/08/2016 02:53:44 pm
** PHONE: Excavation Site Clear,
Response: _CLEAR WINDSTREAM **

If you have problems with this report please contact:

Locate Desk (800)289-1901

Notes:

Windstream has addressed your ticket as noted above. If you have any further questions please contact our Damage Prevention Groups at 1-800-289-1901.

KY Department for Environmental Protection Electronic Submittals

[Home](#) [Notification](#) [Manage User](#)

- Navigate Notification
- Report an Incident
 - Fill out a Form
 - Upload XML File

Type of Notification : eNotification Wastewater

Incident Type:(*) OVERFLOW - LINE BREAK

Incident Start Date-Time:(*) 12/23/2016 9:48 am

Incident End Date-Time: 12/23/2016 10:22 am

AI Name:(*) Ashland WWTP(308)

6" line stopped up and sewer coming out top of clay tile bell.

Nature of Incident:(*)

coner of Emery st. and 43rd st.

Incident Location:(*)

Maybe roots unknown until dug out.

Cause/Duration :(*)

Ran jet truck and open the line,getting line locates so top of pipe can be repaired.

Action Taken :

Pollutant	CAS	Quantity	Units
Sewage			

[Search More Pollutant/CAS](#)

Other Substance(s) :

Welcome

KY Department for Environmental Protection Electronic Submittals

[Home](#) [Notification](#) [Manage User](#)

- Navigate Notification
 - Report an Incident
 - Fill out a Form
 - Upload XML File

Request ID	Submit Date	Notes	Type	Status	Lock Status	Submit Location
54840	12/23/2016 13:12	Start Date:23-DEC-16 6" line stopped up and sewer coming out top of clay tile bell.	eNotification Wastewater	Just Submitted	Checked-In	Worthington

Your information has been recorded and an email will be sent shortly.

For questions or help with your account or this web site, please send an email to [DEP](#)

County of Release : ▼
Weather Conditions : ▼
Receiving : ▼
Release To : ▼
Unnamed Tributary :

All form fields marked (*) are required fields.

For questions or help with your account or this web site, please send an email to [DEPTempoSA@](mailto:DEPTempoSA@ky.gov)

Crew
Mark Cade, Alex Wellman
Jeff Burchett

KY Department for Environmental Protection Electronic Submittals

[Home](#) [Notification](#) [Manage User](#)

- [-] Navigate Notification
 - [-] Report an Incident
 - Fill out a Form
 - Upload XML File

Type of Notification :

Incident Type:(*)

Incident Start Date-Time:(*) (mm/dd/yyyy hh min am/pm)

Incident End Date-Time: (mm/dd/yyyy hh min am/pm)

AI Name:(*)

Nature of Incident:(*)

Incident Location:(*)

Cause/Duration :(*)

Action Taken :

Pollutant	CAS	Quantity	Units
<input type="text" value="Sewage"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

[Search More Pollutant/CAS](#)

Other Substance(s) :

County of Release : ▼
Weather Conditions : ▼
Receiving : ▼
Release To : ▼
Unnamed Tributary :

All form fields marked () are required fields.*

For questions or help with your account or this web site, please send an email to DEPTempoSA@

KY Department for Environmental Protection Electronic Submittals

[Home](#) [Notification](#) [Manage User](#)

- [-] Navigate Notification
 - [-] Report an Incident
 - Fill out a Form
 - Upload XML File

Type of Notification : eNotification Wastewater

Incident Type:(*) Overflow-Manhole- dry weather

Incident Start Date-Time:(*) 12/05/2016 1:50 pm

Incident End Date-Time: 12/05/2016 2:08 pm

AI Name:(*) Ashland WWTP(308)

Nature of Incident:(*)
manhole over flowing

Incident Location:(*)
4006 Gartrell St.

Cause/Duration :(*)
The cause is unknown,ran jet truck and open the line.

Action Taken :
Open the line and camera at later date. Brubaker creek

Pollutant	CAS	Quantity	Units
Sewage			

[Search More Pollutant/CAS](#)

Other Substance(s) :

County of Release : ▼
Weather Conditions : ▼
Receiving : ▼
Release To : ▼
Unnamed Tributary :

All form fields marked () are required fields.*

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KY Department for Environmental Protection Electronic Submittals

[Home](#) [Notification](#) [Manage User](#)

- Navigate Notification
 - Report an Incident
 - Fill out a Form
 - Upload XML File

Deb.

Type of Notification :

Incident Type:(*)

Incident Start Date-Time:(*) (mm/dd/yyyy hh min am/pm)

Incident End Date-Time: (mm/dd/yyyy hh min am/pm)

AI Name:(*)

Nature of Incident:(*)

Incident Location:(*)

Cause/Duration :(*)

Action Taken :

Pollutant	CAS	Quantity	Units
<input type="text" value="Sewage"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

[Search More Pollutant/CAS](#)

Other Substance(s) :

County of Release :
Weather Conditions :
Receiving :
Release To :
Unnamed Tributary :

All form fields marked (*) are required fields.

For questions or help with your account or this web site, please send an email to DEPTempoSA@

Crew Randy S, Mark C, Alex W,
Jeff B.

Welcome BruceW! | Home | User

KY Department for Environmental Protection Electronic Submittals

Home Notification Manage User

- Navigate Notification
- Report an Incident
 - Fill out a Form
 - Upload XML File

Type of Notification : eNotification Wastewater

Incident Type:(*) OVERFLOW - LINE BREAK

Incident Start Date-Time:(*) 11/09/2016 10:28 am

Incident End Date-Time: 11/09/2016 3:00 pm

AI Name:(*) Ashland WWTP(308)

Nature of Incident:(*) sewer in ditch

Incident Location:(*) 9 th. st. and Central Ave.

Cause/Duration :(*) While setting a new manhole and tap for strip mall broke 12" main,set manhole over repair.

Action Taken : Repaired broken clay tile with plastic.

Pollutant	CAS	Quantity	Units
Sewage			

Search More Pollutant/CAS

Other Substance(s) :

County of Release :
Weather Conditions :
Receiving :
Release To :
Unnamed Tributary :

All form fields marked (*) are required fields.

For questions or help with your account or this web site, please send an email to DEPTempoSA@

Crew Mark C, David P,
Jeff B, Adams W, Alex W
B GW

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KY Department for Environmental Protection Electronic Submittals

[Home](#) **Notification** [Manage User](#)

- Navigate Notification
- Report an Incident
 - Fill out a Form
 - Upload XML File

November 7 2016

Type of Notification : eNotification Wastewater

Incident Type:(*) Overflow-Manhole- dry weather

Incident Start Date-Time:(*) 11/07/2016 11:11 am (mm/dd/yyyy hh min am/pm)

Incident End Date-Time: 11/07/2016 12:30 pm (mm/dd/yyyy hh.min am/pm)

AI Name:(*) Ashland WWTP(308)

Nature of Incident:(*)

Manhole over flowing.

Incident Location:(*)

1030 39 th. st.

Cause/Duration :(*)

Blockage unknown.

Action Taken :

Ran jet and open the line. Brubaker creek

Pollutant	CAS	Quantity	Units
Sewage			

[Search More Pollutant/CAS](#)

Other Substance(s) :

Crew David P, Randy S, Adam W

County of Release : ▼
Weather Conditions : ▼
Receiving : ▼
Release To : ▼
Unnamed Tributary :

All form fields marked () are required fields.*

For questions or help with your account or this web site, please send an email to DEPTempoSA@

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: November
4, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 8:06 AM

Time Ending: 9:21 AM

Location: 2450 Oakview Rd.

Event Description: manhole side fell in causing
line to stop up

Means of Solving Event: Ran jet truck & open, also
rebuild manhole side

Crewleader on Event: Adam Wellman, Alex Wellman
James Abrahamson

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

KY Department for Environmental Protection Electronic Submittals

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Type of Notification : eNotification Wastewater

Incident Type:(*) OVERFLOW - LINE BREAK

Incident Start Date-Time:(*) 11/01/2016 1:00 pm (mm/dd/yyyy hh min am/pm)

Incident End Date-Time: 11/01/2016 7:18 pm (mm/dd/yyyy hh min am/pm)

AI Name:(*) Ashland WWTP(308)

Nature of Incident:(*)

Broken sewer line 12",sewer stayed in ditch. This happen October 31 2016 start 1:00 pm, end 7:18 pm.

Incident Location:(*)

47th. st. and Winchester Ave.

Cause/Duration :(*)

A water line break getting into the sewer main causing the sewer main to fall.

Action Taken :

Replaced 179' of 12" clay tile pipe with plastic pipe.

Pollutant	CAS	Quantity	Units
Sewage			

[Search More Pollutant/CAS](#)

Other Substance(s) :

County of Release : ▼
Weather Conditions : ▼
Receiving : ▼
Release To : ▼
Unnamed Tributary :

All form fields marked (*) are required fields.

For questions or help with your account or this web site, please send an email to DEPTempoSA@

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: October 6
2016

Main Size: 8"

Est. Flow: _____

Time Found: 8:30 Am

Time Ending: 9:00 Am

Location: 5216 Blackburn Ave.

Event Description: 4" gas service line run through top main
looks like broken, when gas service was layed

Means of Solving Event: repaired sewer clay tile with plastic

Crewleader on Event: Mark Cade, Alex Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: October 5
2016

Main Size: 8"

Est. Flow: _____

Time Found: 1:20 pm

Time Ending: 2:05 pm

Location: 5216 Blackburn Ave

Event Description: Clay tile broken, sewer stayed
in ditch.

Means of Solving Event: Replaced with plastic

Crewleader on Event: David Pettit, Mark Cade,
Alex Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: October 5
2016

Main Size: 8"

Est. Flow: _____

Time Found: 9:15 Am

Time Ending: 10:30 Am

Location: 5210 Blackburn Ave

Event Description: Clay tile broken, sewer stayed in ditch.

Means of Solving Event: Replaced with plastic

Crewleader on Event: David Petitt, Mark Cade,
Alex Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: September 28, 2016 Main Size: 8" Est. Flow: _____

Time Found: 12:40pm Time Ending: 2:30pm

Location: 1100 Shelby Ave.

Event Description: 8" pipe pulled apart in the creek

Means of Solving Event: put pipe back together

Crewleader on Event: Stacy Harris, James Abrahamson,
Alex Wellman, Adam Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: October
4, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 9:20 Am

Time Ending: 2:30 pm

Location: 2501 Blackburn Ave

Event Description: Repairing bad spots in man
clay tile, sewer stayed in ditch

Two spots repaired 9:20 Am - 10:20 Am / second
1:40 pm - 2:30 pm

Means of Solving Event: Replaced with plastic

Crewleader on Event: David Petitt, Mark Cade, Alex
Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: September
26, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 10:30 AM

Time Ending: 10:50 AM

Location: 4607 Sherwood Dr.

Event Description: Water Works hit sewer main
while repairing a leak, sewer main was miss
marked.

Means of Solving Event: Replace with plastic pipe

Crewleader on Event: Stan Harris, Alex Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: E notification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: September 12, 2016 Main Size: 8" Est. Flow: _____

Time Found: 9:00 Am Time Ending: 11:00 Am

Location: 5201 Blackburn Ave

Event Description: Repairing man and hammer
tap. (clay tile)
sewer stopped in ditch

Means of Solving Event: Replaced with plastic

Crewleader on Event: David Pettit, Mark Cade,
Jeff Burchett, Alex & Adam Wellman, James
Hobananson

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: September
8, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 8:45 AM

Time Ending: 10:40 AM

Location: 5225 Blackburn Ave

Event Description: repair 8" main cracked, sewer
stayed in ditch

Means of Solving Event: Replaced clay tile line with
plastic

Crewleader on Event: David Pettitt, Mark Cade,
James Abrahamson, Adam Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: September
7, 2016

Main Size: 8ⁱⁿ

Est. Flow: _____

Time Found: 1:15 pm

Time Ending: 2:15 pm

Location: 1521 Chestnut

Event Description: broke clay tile line and removed
roots, sewer stayed in ditch

Means of Solving Event: Replaced with plastic.

Crewleader on Event: David Pettitt, Mark Cade
Jame Abrahamson, Adam Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Enotification

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: July 27 Main Size: 8" Est. Flow: _____
2016
Time Found: 3:36pm Time Ending: 8:05 AM
August 30 2016
Location: 1201 Turner St.
2101

Event Description: Manhole has side cut
sewer splashing out but still going down
the line. The line stopped up and got OK to re-lay
line.

Means of Solving Event: Relayed line and set new
drop manhole

Crewleader on Event: David P, BSW / David P, Mark C
Adam W, Alex W, Jeff B

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Dan Canfax, Ashley

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: August
17, 2014

Main Size: 6"

Est. Flow: _____

Time Found: 4:00 pm

Time Ending: 4:10 pm

Location: 1521 Chestnut Ave

Event Description: water backed up in basement

Means of Solving Event: Ran jet truck 175 ft. used 100 gal
of water. August 19 recamera & washed found
roots in line also put acid in line

Crewleader on Event: Beworthington, David Pettit

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: July 22
2016

Main Size: 8"

Est. Flow: _____

Time Found: 10:04 pm

Time Ending: 10:18 pm

Location: 3908 Duke St.

Event Description: manhole overflowing

Means of Solving Event: Ran jet truck and open
line
July 25 camera found roots, July 26

Crewleader on Event: Adam Wellman, James
Abramson

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: July 20
2016

Main Size: 44
lateral

Est. Flow: _____

Time Found: 11:50 Am

Time Ending: 12:50pm

Location: 2134 Oakview Rd.

Event Description: cleanout over flowing

Means of Solving Event: Ran jet truck and unstopped
8 ft. and wash down road used 100 gallons
of water

Crewleader on Event: David Pettit, Mark Cade,
John Brown

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Ashley

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: July 1
2016

Main Size: 8"

Est Flow: _____

Time Found: 2:21 pm

Time Ending: 3:17 pm

Location: 913 Weymouth

Event Description: Manhole stepped up and over
flowing.

Means of Solving Event: Ran jet truck and open man

Crewleader on Event: Adam, Alex Wellman, James Abrahamson
Jeff Burchett

Supervisor Reported to: Ben Worthington

D.O.W. Representative Reported to: Don Kanfax

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: June 13
2016

4" tap
Main Size:
top of 8" main

Est. Flow: _____

Time Found: 9:48 Am

Time Ending: June 29, 2016
9:40 Am

Location: 3814 Greenway Rd.

Event Description: Camera line and found 4" tap broke
in top of 8" main. Before could dig guide
wire called AEP and after a day they said
it was cable co. guide.

Means of Solving Event: After wires removed & trees cut
that had vines on power lines, repair was done
clay tile replaced with PVC

Crewleader on Event: Randy Spears, James Abrahamson
Jeff Burchett, Adam Wellman
Repair crew Mark Cade, Jeff Burchett, Stan Harris

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date April 28
2016

Main Size: 8"

Est. Flow: _____

Time Found: 8:35pm

Time Ending: 9:00pm

Location: YMCA Old 13th St.

Event Description: manholes overflowing

Means of Solving Event: Run jet truck and unstepped,
go back and wash more and camera

Crewleader on Event: Bee Worthington, David Pettit

Supervisor Reported to: Ray Halo

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: April 28
2016

Main Size: 8"

Est. Flow: _____

Time Found: 6:30 pm

Time Ending: 7:00 pm

Location: 841 Highland Ave

Event Description: main stopped up and backed up
in basement

Means of Solving Event: Ran jet truck and open
the line, go back and root cut, camera

Crewleader on Event: Ben Worthington, David Pettit

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: April 28
2016

Main Size: 8"

Est. Flow: _____

Time Found: 1:00 pm

Time Ending: 3:05 pm

Location: 501 39th St.

Event Description: Water Dept hit sewer line while
digging for water main

Means of Solving Event: replaced clay tile with plastic

Crewleader on Event: Stan Harris, Jeff Burchett,
Alex Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: April 22
2016

Main Size: 8"

Est. Flow: _____

Time Found: 8:45 pm

Time Ending: 11:30 pm

Location: 1331 May St

Event Description: Main line stopped up and backed
up in basement.

Means of Solving Event: Ran jet truck and unstepper
found a lot of grease, put grain acid in line
next morning 10lbs

Crewleader on Event: Stan Harris, Beeworthington

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: April 21
2016

Main Size: 8"

Est. Flow: _____

Time Found: 2:08pm

Time Ending: 4:20pm

Location: 2450 Oakview Road

Event Description: main stopped up and flowing
out hole in side of man hole

Means of Solving Event: Ran jet truck & upon have to
go back and repair manhole at later date

Crewleader on Event: Mark Cade, David Pettit, Alex
Adam Wellman, James Abrahamson,
Jeff Burchett

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: April 18
2016

Main Size: 10"

Est. Flow: _____

Time Found: 1:47pm

Time Ending: April 19, 2016
10:05 AM

Location: 48.12 Blackburn Ave

Event Description: Tree fell on line

Means of Solving Event: Got tree off line and repaired
broken clay tile line with plastic

Crewleader on Event: Jeff Burchett, Alex Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrina, Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: April 15
2016

Main Size: 6"

Est. Flow: _____

Time Found: 7:50 Am

Time Ending: 8:30 Am

Location: 1520 Chestnut Hill Dr.

Event Description: While washing main came out
clean out.

Means of Solving Event: Wash line out

Crewleader on Event: David Petitt, Jeff Burchett

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: April 14
2016

Main Size: 6"

Est. Flow: _____

Time Found: 11:11 AM

Time Ending: 1:55 pm

Location: 2711 Seminole Ave

Event Description: 6" line broke in creek

Means of Solving Event: hand dug and replaced with plastic.

Crewleader on Event: Stan Harris, James Abrahamson
Alex Wellman

Supervisor Reported to: Beworthington

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: April 4, 2016

Main Size: 4"
lateral

Est. Flow: _____

Time Found: 2:23pm

Time Ending: April 4, 2016
11:30 Am

Location: 1233 Gallacher St.

Event Description: lateral leaking under road
Called in line locates

Means of Solving Event: Clay tile line was broken and a gas
main repair was in ditch where missing clay tile,
Installed 4" PVC and clewout and tied
back together, together

Crewleader on Event: Mark Cade, Adam Wellman, Alex
Wellman

Supervisor Reported to: Be Worthington

D.O.W. Representative Reported to: Katrina, Deb step time

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: March 24
2016

Main Size: 4"
lateral

Est. Flow: _____

Time Found: 12:57 pm

Time Ending: 2:13 pm

Location: 4508 Blackburn in Hollow
behind.

Event Description: 4" lateral broke down and
came apart. next to creek

Means of Solving Event: fixed with plastic 4"

Crewleader on Event: Stan Harris, James Abrahamson,
Adam Wellman

Supervisor Reported to: B. Worthington

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date March
14, 2016

Main Size: 12"

Est. Flow: _____

Time Found: 8:13 Am

Time Ending: 8:59 Am

Location: Acc College in creek

Event Description: Main stopped up

Means of Solving Event: Ran jet truck and open, cause
unknow

Crewleader on Event: Beworthington, David Pettitt

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrinae

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: March 14
2016

Main Size: 18"

Est. Flow: _____

Time Found: 5:27 pm

Time Ending: 5:47 pm

Location: 17th St. & Greenup Ave.

Event Description: manhole overflowing

Means of Solving Event: Due to heavy Rain

Crewleader on Event: B Worthington

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: March
15, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 12:30 pm

Time Ending: March 16, 2016
10:22 AM

Location: 2106 East Altamont Dr.

Event Description: Relaying main and broke pipe
set stay in ditch but ran over ground and
back in pipe

Means of Solving Event: put pipe together

Crewleader on Event: Mark Cade, Adam Wellman,
Alex Wellman

Supervisor Reported to: Ray Halo

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: March
2, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 12:42 pm

Time Ending: 1:14 pm

Location: 3320 Simpson Rd.

Event Description: Camera main found Roots, tried washing
out couldn't, had to take line apart on old repair
repair rubber boot. because of turn in main.
Ran root cutter and cut roots out

Means of Solving Event: Put line back together

Crewleader on Event: David Pettit, Jeff Burchett, Mark
Cade, Adam + Alex Wellman, Stan Harris, James
Abrahamson

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrina

Goes back into Tannery Line

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: March 1 Main Size: 8" Est. Flow: _____
2016

Time Found: 11:57 Am Time Ending: 1:24 pm

Location: 4037 State Pt. 168

Event Description: manhole overflowing

Means of Solving Event: Ran jet truck and open

Crewleader on Event: Adam Wellman, Mark Cade,
David Pettit, Jeff Burchett, Stan Harris

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: February
24 2016

Main Size: 6"

Est. Flow: _____

Time Found: 8:40 Am

Time Ending: 9:20 Am

Location: 13th St. Shell station

Event Description: stop up

Means of Solving Event: Ran jet truck and open
Rags

Crewleader on Event: David Pettitt, Jeff Burchett

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: February Main Size: 4" Est. Flow: _____
21, 2016 lateral

Time Found: 9:18pm Time Ending: 9:25pm

Location: 2813 Hampton St.

Event Description: lateral stopped up right of way

Means of Solving Event: Ran jet truck open line
12 ft. and clean mess "kags"

Crewleader on Event: Ben Worthington, Jeff Burchett

Supervisor Reported to: ~~Deb~~ Ray Halo

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: February
21, 2016

Main Size: 6"

Est. Flow: _____

Time Found: 11:21 Am

Time Ending: 11:38 Am

Location: 3116 Mason St.

Event Description: Main stopped up and came up
in basement

Notes of Sewer Event: Ran jet truck & open

Crewleader on Event: Ben Worthington, David Pettit

Supervisor Reported to: Ray Hall

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: February
10, 2016

Main Size: 18"

Est. Flow: _____

Time Found: 8:50 Am

Time Ending: 10:15 Am

Location: East St. 805

Event Description: Main line stopped up.

Means of Solving Event: Ran Monster jet 100 ft and
open the line.

Crew/Operator on Event: Stan Harris, Adam Wellman, Alex
Wellman, Jeff Burchett, Beau Worthington

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Dan Canfax

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: February Main Size: 4" Est. Flow: _____
7, 2016 lateral

Time Found: 8:53pm Time Ending: 9:35pm

Location: 2913 Franklin St

Event Description: Clean out overflowing

Means of Solving Event: Ran jet truck and open
line.

Crewleader on Event: BE Worthington, Jeff Burchett

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Ashley

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: February 5, 2016

Main Size: 4"
lateral

Est. Flow: _____

Time Found: 12:00 pm

Time Ending: February 8, 2016
9:30 Am

Location: 800 McCullough St.

Event Description: Water break broke out sewer lateral.

Means of Solving Event: After water leak was found and repaired. Sewer Dept repaired lateral

Crew/Leader on Event: Stan Harris, Jeff Burchett, Mark Cade, David Pettit

Supervisor Reported to: Ray Hale

D.C.W. Representative Reported to: Ashlee

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: February 4
2016

Main Size: 4"

Est. Flow: _____

Time Found: 11:21 Am

Time Ending: 11:30 Am

Location: 55th St. Apple Blossom Lane

Event Description: Clean out broken and not running
when sand fat had been

Steps of Solving Event: Ran jet & open fixed cleanout
and vac mess up

Crewleader on Event: David Petitt, Jeff Burchett

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: January
31, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 4:19pm

Time Ending: 5:41pm

Location: 3447 Thompson Dr.

Event Description: manhole overflowing

Means of Solving Event: Raw jet truck to open, rags,
rocks

Crewleader on Event: Ben Worthington, John Brown

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: July
26, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 9:00 Am

Time Ending: 9:20 Am

Location: 2610 Oakview Rd.

Event Description: Manhole over flowing

Means of Solving Event: Ran jet truck & open
Rags

Crewleader on Event: James Abrahamson

Supervisor Reported to: Deb

D.O.W. Representative Reported to: Ray Hale

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: January
7, 2016

Main Size: 8"

Est. Flow: _____

Time Found: 1:58 pm

Time Ending: 3:05 pm

Location: 1720 Ray St.

Event Description: manhole flowed

Means of Solving Event: Ran jet truck to open up, cause
unknown

Crewleader on Event: David Pettit, Jeff Burchett,
James Abrahamson, Stan Harris

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: January 4
2016

Main Size: 8"

Est. Flow: _____

Time Found: 10:35 Am

Time Ending: 11:34 Am

Location: 32nd St + Chatteroi

Event Description: manhole overflowing

Means of Solving Event: up step with jet truck, rags,
and grease

Crewleader on Event: Adam Wellman, James
Abrahamson

Supervisor Reported to: Ray Halo

D.O.W. Representative Reported to: Katrina

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: December
13, 2015

Main Size: 8"

Est. Flow: _____

Time Found: 2:36 pm

Time Ending: 2:42 pm

Location: 2330 6th St.

Event Description: manhole overflowing

Means of Solving Event: Rem jet truck, 7 ft. used 30 gallon
of water, open lines, cause grease & soap

Crewleader on Event: Beworthington, David Pitt, Jeff Burchett
Helen Wellman

Supervisor Reported to: Beworthington

D.O.W. Representative Reported to: Deb

CITY OF ASHLAND
SANITARY SEWER OVERFLOW EVENT REPORT

Date: January 4
2016

Main Size: 8"

Est. Flow: _____

Time Found: 1:31pm

Time Ending: 1:45pm

Location: 1000 Shelby

Event Description: clay to plastic boot loose in creek

Means of Solving Event: tie up boot and replace,
also blocked up

Crewleader on Event: Stan Harris, Jeff Burchett,
Adam Wellman

Supervisor Reported to: Ray Hale

D.O.W. Representative Reported to: Deb

City hires contractor for 29th Street CSO project

BY ANDREW ADKINS
THE DAILY INDEPENDENT

ASHLAND The Ashland Board of City Commissioners on Thursday approved a \$2.9 million contract with a construction company to complete a storm water separation project on 29th Street. Tribute Contracting & Construction, based in South Point, offered the low bid and is poised to undertake the long-discussed Combined Sewer Overflow project if the commission grants final approval in a second reading on March 23.

The project is designed to redirect storm water



MARK MAYNARD | THE DAILY INDEPENDENT
Mayor Steve Gilmore, City Attorney John Vincent and Commissioner Matt Perkins talk before Thursday's meeting in commission chambers at the city building.

from the sewer plant to the Ohio River by installing 5-foot drain pipes.

It could reduce the overall flow to the sewer by 10 percent, according to In-

terim City Manager Steve Corbitt.

SEE CITY | A8

CITY:

From Page A1

Operational costs at plant will be reduced by treating both

"This will reduce our operational costs at the plant, because we're wasting resources by treating a large amount of rain water the same as we would treat wastewater," said City Engineer Ryan Eastwood. "It will also help our sewer plant meet the demands of what's already coming to it."

When the city is hit by heavy rainfall, the city has to shut off some pumps to keep from overwhelming the treatment plant, Eastwood added.

The city budgeted \$4 million for the project and put it out for bid during the current fiscal year. But before receiving any offers, the city halted the bid process because Kentucky repealed its prevailing wage law in January. The law had guaranteed construction workers would be paid wages set by unions in the region

for most public works projects, and its swift repeal was met with sharp union criticism.

Corbitt said the city likely saved "hundreds of thousands of dollars" by re-advertising the bid after the law was repealed. The engineering estimate for the project when prevailing wage was in place was \$3.5 million, Corbitt said, noting bids could've come in lower than the estimate regardless of the repeal.

Tribute Contracting will likely break ground on the project in late May or early June, Eastwood said. Construction will impact two blocks along 29th Street, from the J.R. Food Mart area to Lexington Avenue, and could stretch as far as Forest Avenue.

Businesses near the job site will not be forced to close their doors during the construction process, which will take at least six months.

"It's going to be a tough project for a little while," Eastwood said. "We do ask that the public has patience with us. We're going to do our best to make sure everyone knows in advance of any traf-

fic control situations."

Eastwood said advanced traffic updates will be shared through Facebook and the city's traffic and emergency alert system, AlertSense.

City manager

Ashland's city manager search has narrowed to two, according to city officials.

Members of the city manager search committee interviewed the two candidates, who are from Ohio and Virginia, last week. Commissioners met in executive session to continue their discussion of the candidates. Commissioner Amanda Clark said both candidates appear to be "competent in their ability to lead and hold people accountable."

Interim City Manager Steve Corbitt said an announcement could come in early April.

New business

Commissioner Marshall Steen, who is battling serious health issues, returned to his seat after missing all but one meeting this year. Steen and the rest of the commission approved a slew of payments on Thursday.

- Paid \$79,484.40 to Distel Construction Inc. for work on the Mill Street project. The total cost of the project, which will provide a new home to the city's water distribution and wastewater collection departments, is \$1.54 million.

- Awarded a roughly \$139,620 bid to Morris Contracting Inc. for the installation of up to 100 blow-offs/flushing hydrants within the city water system.

- Awarded a \$106,197.40 bid for the Floyd Street and Skyline Drive Waterline Project to Morris Contracting Inc. Corbitt said after the meeting the current waterline was built in the 1950s. Since then, an increase in customers resulted in more pressure placed on the current waterline, creating a need for a larger diameter pipe to help deliver water to the tower.

- Purchased a low-floor ramp equipped front wheel drive van from American Bus through a state-approved bid. The vehicle cost \$37,809, and the city will pay 10 percent of it through a Kentucky Public Transit Association program.

- Approved a request by

the Karen W. Frailie Christian Education Fund to place a decorative heart, white in color and attached to a stem, at the grave of each baby in the baby section of Ashland Cemetery on Memorial Day each year. The hearts will be placed and removed by Ashland Middle School students.

The city also approved a request by the fund to provide a suitable stone marker for each unmarked baby's grave in the baby section of the cemetery.

Appointments

Timothy Berry and Andrew Wheeler were appointed to the Ashland Planning Commission.

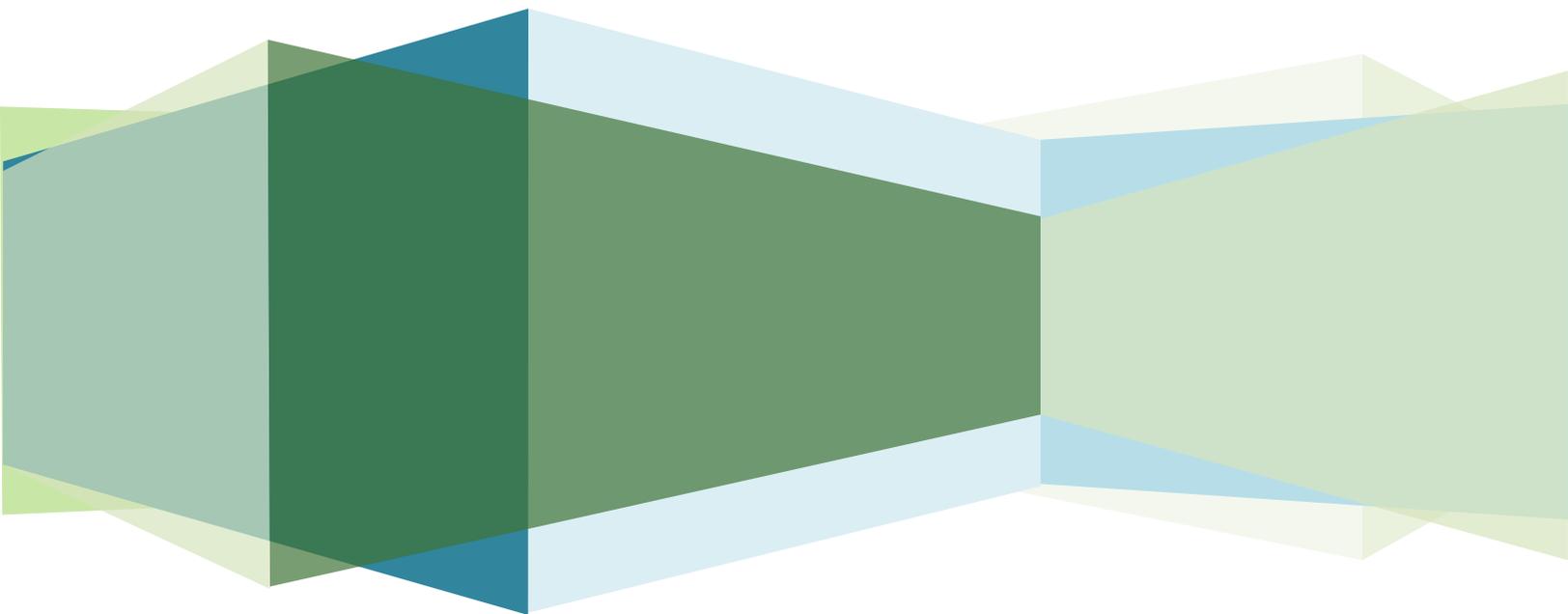
The city commission is slated to reconvene on March 23, but that meeting will be pushed back to 6 p.m. Members of the commission plan to attend a ceremony hosted by Safe Harbor that will honor the Ashland Police and Fire departments at noon. The commission plans to comply with a city ordinance by opening the meeting at its regular time of noon, but immediately recess it to 6 p.m.

(606) 326-2651
aadkins@dailyindependent.com

Appendix “E”

Phase II Stormwater Monitoring Program

- Plan
- 2014 Baseline Sampling
- Outfall Map and Monitoring Data



Phase II Stormwater Monitoring Program

for

City of Ashland
Kentucky



March 2015



Table of Contents – Stormwater Monitoring Program

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Dry Weather Visual Screening	Page 4
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Glossary of Terms	Page 6

Introduction

The current Phase II Permit, KYG20, includes a requirement for the permittee to develop an appropriate monitoring program that evaluates the effectiveness of the MS4 program.

This section summarizes Ashland's proposed monitoring program and method to measure effectiveness, and provides a mechanism to obtain feedback for Ashland to change or improve the stormwater quality program appropriately.

The monitoring plan is divided into the following sections:

- Background
- Dry Weather Visual Screening
- Review of 2012 Integrated Report (IR) 303(d) List of Streams
- Monitoring Program

Background

The City of Ashland, which has a population of 21,684 according to the 2010 Census, is permitted under KYG20 to discharge pollutants in stormwater discharges associated with small municipal storm sewer systems into waters of the Commonwealth.

160 square miles encompasses Ashland, Catlettsburg and Boyd County urbanized area and is part of the Big Sandy River Basin. The Big Sandy River flows along the eastern border of the Commonwealth of Kentucky and West Virginia and empties into the Ohio River. The major subbasins within the river basin are Big Sandy (KY-WV), Little Sandy (KY) and Little Scioto-Tygarts (KY/OH).

As required by KYG20 the City of Ashland has developed and continues to maintain a storm sewer map showing the location of all known major outfalls. The storm sewer map is included in the Annual Compliance Report submitted to Kentucky Division of Water.

In KYG20 a major outfall is defined as follows:

- A pipe (or closed conveyance) system with a cross-sectional area equal to or greater than 7.07 square feet (e.g., a single circular pipe system, with an

inside diameter of 36 inches or greater); and

- A single conveyance other than a pipe, such as an open channel ditch, which is associated with a drainage area of more than 50 acres.

Over the past four (4) years Ashland has located over 200 minor and major outfalls (minor and major) in the Little Scioto-Tygarts subbasin.

A map showing these outfalls and stream names are provided in the appendix.

Review of 2012 IR - List of 303(d) Streams

The Clean Water Act requires States to assess and report current water quality conditions biennially. The Kentucky Division of Water (KDOW) is responsible for Section 305(b) and Section 303(d) reporting requirements for surface waters. The 2012 Integrated Report (IR) prepared by KDOW replaces the 2010 IR.

Section 305(b) lists all water quality assessment results for surface waters (streams, spring, ponds and reservoirs) in Kentucky. The 303(d) list of streams is a subset of the 305(b) list including all water streams not supporting one or more designated uses and requiring the development of a total maximum daily load (TMDL).

The 2012 IR – 303(d) list of streams was reviewed for Little Scioto-Tygarts subbasin within the City of Ashland and there is currently no impaired streams identified or TMDL monitoring planned.

Dry Weather Visual Screening

In the summer and fall of 2014 the City of Ashland conducted dry weather inspections on over 200 outfalls (minor and major). The inspections included the following information:

- Outfall ID
- Northing, Easting and Elevation
- Photograph(s)
- Temperature
- Weather Condition
- Notation of Rainfall in the previous 24- and 48-hour period
- Type of Outfall (Ditch, Pipe, etc.)
- Size of Outfall
- Receiving stream
- Condition at Outfall
- Flow Observation
- Color Observation
- Turbidity and Floatables Observation
- Vegetation and Erosion Observation
- pH, Water Temperature and Ammonia Reading
- Illicit Discharge Determination
- Comments

Results of the dry weather screening results are provided on the attached spreadsheet. Approximately 16 sites indicated abnormal color, floatables, algae and oil sheen where there could be potential for illicit discharge. Some outfall sites show soil erosion around piped outfalls. Ashland is addressing these sites.

Screening parameters for the visual inspection of the outfalls were programmed in the geographical information system (GIS). The screening information was entered into the GPS handheld instrument during the screening of each outfall.

Monitoring Program

Since there are no impaired streams identified in the 2012 IR 303(d) list or known water quality concerns, Ashland's proposed monitoring program will include conducting dry weather screening of minor and major outfalls once every permit cycle. The dry weather screening inspection may include some water sampling.

By including all outfalls land uses that include high density residential, commercial and industrial sites are included in the monitoring program.

If feedback on the detriment of a stream/outfall area or particular land use site is obtained from the public or observed through municipal operations more frequent visual inspections and possible sampling at major outfalls will be conducted on a case by case basis.

The core of Ashland's SWQMP will be to continue implementing structural and non-structural best management practices that address and mitigate pollutants in stormwater runoff associated with urbanization. These pollutants include sedimentation from construction sites, nutrient runoff (phosphorus and nitrogen) and metals, and oils and greases from vehicle traffic and parking lots.

Ashland's SWQMP will be revised if necessary based on the results of the monitoring program to make the overall program more effective in reducing or eliminating stormwater pollution.

Glossary of Terms

“Best Management Practices” or “BMPs” means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control stormwater runoff.

“Illicit connection” means any connection to the municipal separate storm sewer that is not composed entirely of stormwater, except discharges pursuant to a KPDES permit, other than the KPDES permit for discharges from the municipal separate storm sewer, and discharges resulting from fire fighting activities.

“Illicit discharge” means any discharge to the municipal separate storm sewer that is not composed entirely of stormwater except discharges pursuant to a KPDES permit (other than the KPDES permit for discharges from the municipal separate storm sewer and discharges resulting from fire fighting activities).

“Municipal Separate Storm Sewer System” means a conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, and storm drains): owned or operated by a state, city, town, county, district, association, or other public body (created by or pursuant to state law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian Tribe or an authorized Indian tribal organization, or a designated and approved management agency under Section 208 of the Clean Water Act that discharges to waters of the United States.

“Point Source” means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agricultural lands or agricultural stormwater runoff.

“Stormwater” means stormwater runoff, snowmelt runoff, surface runoff and drainage.

“Stormwater Quality Management Plan” or “SWQMP” is the written plan that details the “Stormwater Quality Management Program”. The “Plan” is considered a single document, even though it actually consists of the six minimum control measures of the MS4 programs.

TMDL” is an acronym for “Total Maximum Daily Load”, a federally mandated program for impaired waters of the Commonwealth to determine the maximum assimilative capacity of a water for a specified pollutant and to allocate allowable pollutant loads to sources in the watershed.

“Waters of the Commonwealth” means and includes any and all rivers, streams, creeks, lakes, ponds, impounding reservoirs, springs, wells, marshes, and all other bodies of surface or underground water, natural or artificial, situated wholly or partly within or bordering upon the Commonwealth or within its

jurisdiction.

"Wet weather conveyances" are man-made or natural watercourses, including natural watercourses that have been modified by channelization, that flow only in direct response to precipitation runoff in their immediate locality and for which channels are above the groundwater table and which do not support fish and aquatic life and are not suitable for drinking water supplies.



REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: 304.255.2500
Website: www.reiclabs.com

Improving the environment, one client at a time...

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Friday, September 05, 2014

MR. MARION RUSSELL
CITY OF ASHLAND
PO BOX 1839
ASHLAND, KY 41105-1839

TEL: (606) 327-2060
FAX: (606) 327-2007

RE: STREAMS

Work Order #: 1408Q73

Dear MR. MARION RUSSELL:

REI Consultants, Inc. received 4 sample(s) on 8/22/2014 for the analyses presented in the following report.

Sincerely,

Joy Castle

Project Manager



Client: CITY OF ASHLAND

Project: STREAMS

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:

X: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.

S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460150

Verona, VA: VADCLS(VELAP) 460151

Ashland, KY: KYDEP 00094, WVDEP 389

Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 1408Q73

Date Reported: 9/5/2014

Client:	CITY OF ASHLAND	Collection Date:	8/21/2014 12:28:00 PM
Project:	STREAMS	Date Received:	8/22/2014
Lab ID:	1408Q73-01A	Matrix:	Liquid
Client Sample ID:	1 KEYS	Site ID:	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
E-COLI BY MPN-ASHLAND			Method: COLILERT 18			Analyst: AR		
E-Coli	365.4	NA	1	NA		MPN/100mL	8/22/2014 10:13 AM	
METALS BY ICP			Method: EPA 200.7 Rev. 4.4 (1994)			Analyst: CGW		
Potassium	5.57	0.050	0.500	NA		mg/L	9/3/2014 6:33 PM	PA/VA
RESIDUAL CHLORINE - Lab Test, Hold Time Expired			Method: SM4500-CI-G-2000			Analyst: JH		
Chlorine, Total Residual	157	40	100	NA		µg/L	8/26/2014 1:00 PM	PA
SURFACTANTS			Method: SM5540 C-2000			Analyst: CC		
MBAS (calibrated on MW340 LAS)	ND	0.0250	0.0625	NA		mg/L	8/22/2014 6:44 PM	PA/VA
TURBIDITY			Method: EPA 180.1, Rev. 2.0 (1993)			Analyst: CC		
Turbidity	1.92	0.20	0.50	NA		NTU	8/22/2014 5:57 PM	PA/VA
AMMONIA NITROGEN			Method: EPA 350.1, Rev.2. (1993)			Analyst: BS		
Nitrogen, Ammonia (As N)	0.16	0.04	0.10	NA		mg/L	8/25/2014 11:49 AM	PA/VA
CONDUCTIVITY			Method: SM2510 B - 1997			Analyst: SF		
Specific Conductivity	559	NA	NA	NA		µmhos/cm	8/23/2014 10:30 AM	PA/VA
pH - LAB TEST, HOLD TIME EXPIRED			Method: SM4500-H+-B-2000			Analyst: DSD		
pH	7.46	NA	NA	NA		SU	8/27/2014 9:30 AM	PA

REI Consultants, Inc. - Analytical Report

WO#: 1408Q73

Date Reported: 9/5/2014

Client:	CITY OF ASHLAND	Collection Date:	8/21/2014 1:16:00 PM
Project:	STREAMS	Date Received:	8/22/2014
Lab ID:	1408Q73-02A	Matrix:	Liquid
Client Sample ID:	2 BRUBAKER	Site ID:	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
E-COLI BY MPN-ASHLAND			Method: COLILERT 18			Analyst: AR		
E-Coli	686.7	NA	1	NA		MPN/100mL	8/22/2014 10:13 AM	
METALS BY ICP			Method: EPA 200.7 Rev. 4.4 (1994)			Analyst: CGW		
Potassium	4.18	0.050	0.500	NA		mg/L	9/3/2014 6:36 PM	PA/VA
RESIDUAL CHLORINE - Lab Test, Hold Time Expired			Method: SM4500-CI-G-2000			Analyst: JH		
Chlorine, Total Residual	ND	40	100	NA		µg/L	8/26/2014 1:00 PM	PA
SURFACTANTS			Method: SM5540 C-2000			Analyst: CC		
MBAS (calibrated on MW340 LAS)	ND	0.0250	0.0625	NA		mg/L	8/22/2014 6:44 PM	PA/VA
TURBIDITY			Method: EPA 180.1, Rev. 2.0 (1993)			Analyst: CC		
Turbidity	2.17	0.20	0.50	NA		NTU	8/22/2014 5:57 PM	PA/VA
AMMONIA NITROGEN			Method: EPA 350.1, Rev.2. (1993)			Analyst: BS		
Nitrogen, Ammonia (As N)	ND	0.04	0.10	NA		mg/L	8/25/2014 11:50 AM	PA/VA
CONDUCTIVITY			Method: SM2510 B - 1997			Analyst: SF		
Specific Conductivity	375	NA	NA	NA		µmhos/cm	8/23/2014 10:30 AM	PA/VA
pH - LAB TEST, HOLD TIME EXPIRED			Method: SM4500-H+-B-2000			Analyst: DSD		
pH	8.11	NA	NA	NA		SU	8/27/2014 9:30 AM	PA

REI Consultants, Inc. - Analytical Report

WO#: 1408Q73

Date Reported: 9/5/2014

Client:	CITY OF ASHLAND	Collection Date:	8/21/2014 12:43:00 PM
Project:	STREAMS	Date Received:	8/22/2014
Lab ID:	1408Q73-03A	Matrix:	Liquid
Client Sample ID:	3 LONG BRANCH	Site ID:	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
E-COLI BY MPN-ASHLAND			Method: COLILERT 18			Analyst: AR		
E-Coli	461.1	NA	1	NA		MPN/100mL	8/22/2014 10:13 AM	
METALS BY ICP			Method: EPA 200.7 Rev. 4.4 (1994)			Analyst: CGW		
Potassium	4.49	0.050	0.500	NA		mg/L	9/3/2014 6:39 PM	PAVA
RESIDUAL CHLORINE - Lab Test, Hold Time Expired			Method: SM4500-CI-G-2000			Analyst: JH		
Chlorine, Total Residual	48	40	100	NA	J	µg/L	8/26/2014 1:00 PM	PA
SURFACTANTS			Method: SM5540 C-2000			Analyst: CC		
MBAS (calibrated on MW340 LAS)	ND	0.0250	0.0625	NA		mg/L	8/22/2014 6:44 PM	PAVA
TURBIDITY			Method: EPA 180.1,Rev. 2.0 (1993)			Analyst: CC		
Turbidity	3.58	0.20	0.50	NA		NTU	8/22/2014 5:57 PM	PAVA
AMMONIA NITROGEN			Method: EPA 350.1, Rev.2. (1993)			Analyst: BS		
Nitrogen, Ammonia (As N)	ND	0.04	0.10	NA		mg/L	8/25/2014 11:50 AM	PAVA
CONDUCTIVITY			Method: SM2510 B - 1997			Analyst: SF		
Specific Conductivity	540	NA	NA	NA		µmhos/cm	8/23/2014 10:30 AM	PAVA
pH - LAB TEST, HOLD TIME EXPIRED			Method: SM4500-H+-B-2000			Analyst: DSD		
pH	7.71	NA	NA	NA		SU	8/27/2014 9:30 AM	PA

REI Consultants, Inc. - Analytical Report

WO#: 1408Q73

Date Reported: 9/5/2014

Client:	CITY OF ASHLAND	Collection Date:	8/21/2014 12:56:00 PM
Project:	STREAMS	Date Received:	8/22/2014
Lab ID:	1408Q73-04A	Matrix:	Liquid
Client Sample ID:	4 LITTLE HOODS	Site ID:	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
E-COLI BY MPN-ASHLAND			Method: COLILERT 18			Analyst: AR		
E-Coli	193.5	NA	1	NA		MPN/100mL	8/22/2014 10:13 AM	
METALS BY ICP			Method: EPA 200.7 Rev. 4.4 (1994)			Analyst: CGW		
Potassium	5.66	0.050	0.500	NA		mg/L	9/3/2014 6:43 PM	PAVA
RESIDUAL CHLORINE - Lab Test, Hold Time Expired			Method: SM4500-CI-G-2000			Analyst: JH		
Chlorine, Total Residual	295	200	500	NA	J	µg/L	8/26/2014 1:00 PM	PA
SURFACTANTS			Method: SM5540 C-2000			Analyst: CC		
MBAS (calibrated on MW340 LAS)	ND	0.0250	0.0625	NA		mg/L	8/22/2014 6:44 PM	PAVA
TURBIDITY			Method: EPA 180.1, Rev. 2.0 (1993)			Analyst: CC		
Turbidity	5.57	0.20	0.50	NA		NTU	8/22/2014 5:57 PM	PAVA
AMMONIA NITROGEN			Method: EPA 350.1, Rev.2. (1993)			Analyst: BS		
Nitrogen, Ammonia (As N)	ND	0.04	0.10	NA		mg/L	8/25/2014 11:53 AM	PAVA
CONDUCTIVITY			Method: SM2510 B - 1997			Analyst: SF		
Specific Conductivity	818	NA	NA	NA		µmhos/cm	8/23/2014 10:30 AM	PAVA
pH - LAB TEST, HOLD TIME EXPIRED			Method: SM4500-H+-B-2000			Analyst: DSD		
pH	8.05	NA	NA	NA		SU	8/27/2014 9:30 AM	PA

CHAIN OF CUSTODY RECORD



Research Environmental & Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:

P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center
101 17th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME

NORMAL

5 DAY

3 DAY

2 DAY

1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED

Ammonia
Chlorine
Cond. Turb
PH
MBAS
K Spect lecoli (ecdi. MPN)
8/11/14
KY-EC-L-MPN
Run in Ashland

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	ICED?	Y	N
1 Keys	8/21/14 12:38p	L	GA	3	0	0	2
2 Brubaker	8/21/14 1:16p	L	GA	2	0	0	2
3 Long Branch	8/21/14 12:43p	L	GA	2	0	0	2
4 Little Hoods	8/21/14 12:56p	L	GA	2	0	0	2

- ENTER PRESERVATIVE CODE:**
- 0 None
 - 1 Hydrochloric Acid
 - 2 Nitric Acid
 - 3 Sulfuric Acid
 - 4 Sodium Thiosulfate
 - 5 Sodium Hydroxide
 - 6 Zinc Acetate
 - 7 EDTA
 - 8 Ascorbic Acid

COMMENTS:

Abt on ice 7/5/14

Containers provided by: [] REIC [] Client

Temperature at arrival: 10°C

FAX RESULTS EMAIL RESULTS

SHIPMENT Hand Delivered Carrier UPS FEDEX USPS OTHER

Relinquished by (signature) *[Signature]* Date/Time 8/21/14 1:32

Received by (signature) *[Signature]* Date/Time 8-21-14 1:30

403837

City of Ashland

Client: _____ PO # _____

Contact Person: W. Russell Phone _____

QUOTE # _____ Fax: _____ Email: _____

Address _____ City _____ State _____ Zip _____

Billing Address (if different) _____

Site ID & State _____ Project ID _____ Sampler COA

Storm System

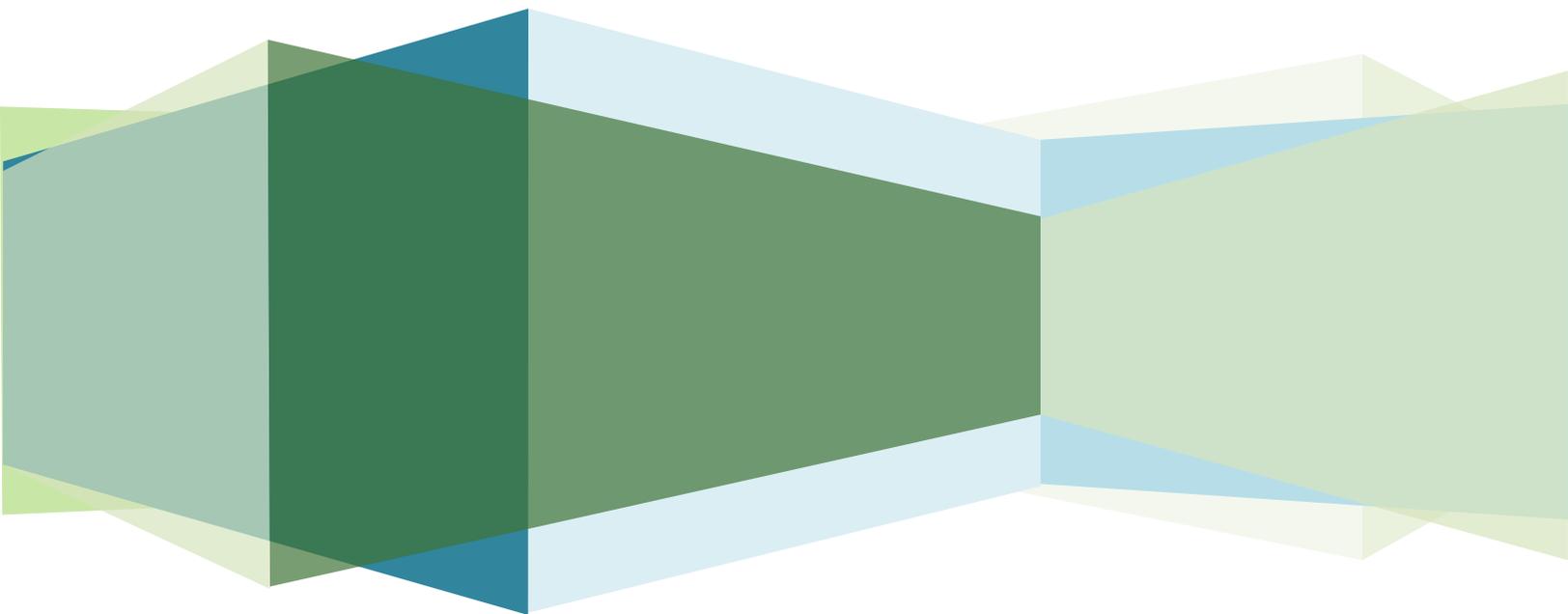
- Outfall
- Streams
- Ashland Roads




Appendix “F”

Pollution Prevention and Good Housekeeping

- Erosion Control Permits
- Filed Complaints
- Storm Sewer Outfall Map



PROJECT NAME	AREA IN ACRES	ADDRESS	CONTACT PERSON	PHONE	E-MAIL	PERMIT NUMBER	DATE ISSUED	DATE OF N.O.T	NOTES:	INIT	PLANS
Building Addition - CPA Investment Co.	0.49	1200 Corporate Court	Charles Meade II	739-5198	ccmeadeii@windstream.net	140301	3/21/2014	9/30/2014	Addition to old Woolpert Office + parking	B.H.	140301 Galloway 1200 Corporate Court
New block wall behind building	0.01	3466 13th Street	Umesh Patel	256-283-3992	upatel1961@gmail.com	140302	3/24/2014		New block wall behind building	B.H.	140302 Patel 3466 13th St
Kohl's	1.26	495 Riverhill Drive	Adam McKinney	816-262-5171	amckinney@crane-construction.com	140401	4/1/2014	10/1/2014	New Store on Riverhill Drive	B.H.	140401Kohls Erosion Permit Information
House Addition	0.07	646 Gartrell Street	Randy & Stacey Vanover	606-923-5759	taterbugx646@gmail.com	140402	4/15/2014	6/1/2014	Minimal Disturbance project	B.H.	Y:\Street File\Gartrell Street\646 Gartrell Street\646 Gartrell Street Building Per
Replace Deck	0.002	1019 Shelby Ave	Tobie Moore	606-571-2683		140501	5/9/2014	7/1/2014	Minimal Disturbance project	B.H.	Y:\Erosion Control Permits\140501 Moore 1019 Shelby Avenue\Erosion Control P
Health Dept		2924 Holt St. BCHD	Maria C. Hardy			140601	6/3/2014	9/3/2014	Parking lot add at the Boyd Co. Health Dept.		
New Houses back to back Ray and Hart	0.5	1610 Ray Street	Don Howard	831-5310		140602	6/30/2014	8/1/2014	2 new houses, Ray St. and Hart St.	B.H.	Y:\Street File\Ray Street\1610 Ray Street\1610 Ray Street Building Permit review
Driveway	0.004	2714 Lorraine St.	Shannon Mullins	304-541-9811		140701	7/11/2014	9/1/2014	Minimal Disturbance project	JMN	
New House at 39th and Gartrell			Garnet "Liz" Kitchen	571-6981	lizktchn@yahoo.com	140901	9/12/2014	11/1/2014	Demo house. Clearing lot for new home	B.H.	140901 1004 39th St\Erosion Control Permit 140901.PDF
New House	0.05	4736 Blackburn Ave.	Robert Corder - Corder Builders	304-638-9213	wvcorder@gmail.com	141201	12/10/2014	2/1/2015	Currently Vacant lot, new house.	B.H.	Y:\Street File\Blackburn Avenue\4736 Blackburn Avenue\Building Permit Corder
House Addition	0.1	1607 Ray Street	Michael Wilson	606-571-4556		150401	4/28/2015	10/1/2016	Filling Back Yard	B.H.	Project was delayed for need of minor subdivision
New House	0.43	4109 39th Street	Alex Gillispie	1-740-479-0309		150402	4/29/2015	8/1/2016	New House	B.H.	Y:\Street File\Thirtyninth Street\4109 39th Street at Miller Street\MS15-03-02 M
New Gravel Driveway	0.07	3713 Blackburn Avenue	Ralph Bolt	606-571-5800		150403	4/29/2015	6/1/2015	New Driveway off of Linden St.	B.H.	Y:\Street File\Blackburn Avenue\3713 Blackburn Avenue\Photos Erosion Permit 1
New Parking Lot + French Drain	0.12	2812 Montgomery Ave	Randell Cole	606-494-2161		150501	5/8/2015	6/16/2016	Sandhole Montgomery & 28th Paved Parking	JMN	
Gibbs Hardware new store	1.40 Disturbed	942 13th St	C.C. Gibbs			150502	5/22/2015	9/1/2015	Also has state permit	B.H.	
Steak and Shake	.95 disturbed	425 Armco Road	Doug & Barry Knipp	606-324-5421	cknipp@aol.com	160301	3/9/2016	10/1/2016	Development includes ADS Storm Detention Chambers	B.H.	
2828 Hackworth Street Drain Line	0.27	2828 Hackworth St.	Andrew Thrower	740-646-2440		160302	3/11/2016	5/1/2016	Drain line to collect runoff from alley discharges into yard.	B.H.	.\Street File\Hackworth Street\2828 Hackworth Street\Erosion Control Permit 1f
31st Street Stormline			Jake Morris			160401	4/11/2016	8/1/2016	Stormline Project	JMN	
JD Byrider aka Rowland Motors, Inc	0.66	2817 Winchester Ave	Les Tinkham	800-424-5258	ltinkham@eastham-assoc.com	160701	7/18/2016		JD Byrider Site Development Winchester near 29th St.	B.H.	Y:\Street File\Winchester Avenue\2819 Winchester Avenue JD BYRIDER LOCATIO
Ken Blevins Group AML Rec. Project		Shadowlawn / Powers Rd	James Bihl	606-836-2534	tse@tristateenterprise.com	161201	12/20/2016		Abandoned Mine Lands Reclamation Project (3) Sites	B.H.	161201 Shadowlawn AML Project\Powers Rd - Shadowlawn AML\Local Erosion Cc



I went to the construction site at Powers Road and Shadowlawn Drive on 12-16-2016. I spoke with a trackhoe operator from Tri-State who said that the project was a state Abandoned Mine Lands Reclamation Project. He gave me the contact information for the inspector on the project, Jordan Montgomery. He also said he has been in contact with Ashley Bowen of the KYDOW.

The pictures attached list the contact information.

There was silt fencing installed around a fill area, and some ditches have been rip-rapped, with seed and straw on the disturbed areas.

Additional photos below show the plan set cover sheet, the rip-rapped ditch, the fill area, and a ditched being cleaned out that will also be rip-rapped with an armor blanket.

Concrete culvert is to be installed to drain into Keys Creek near Shadowlawn Dr.

Bill Halterman, Eng. Dept.

City of Ashland





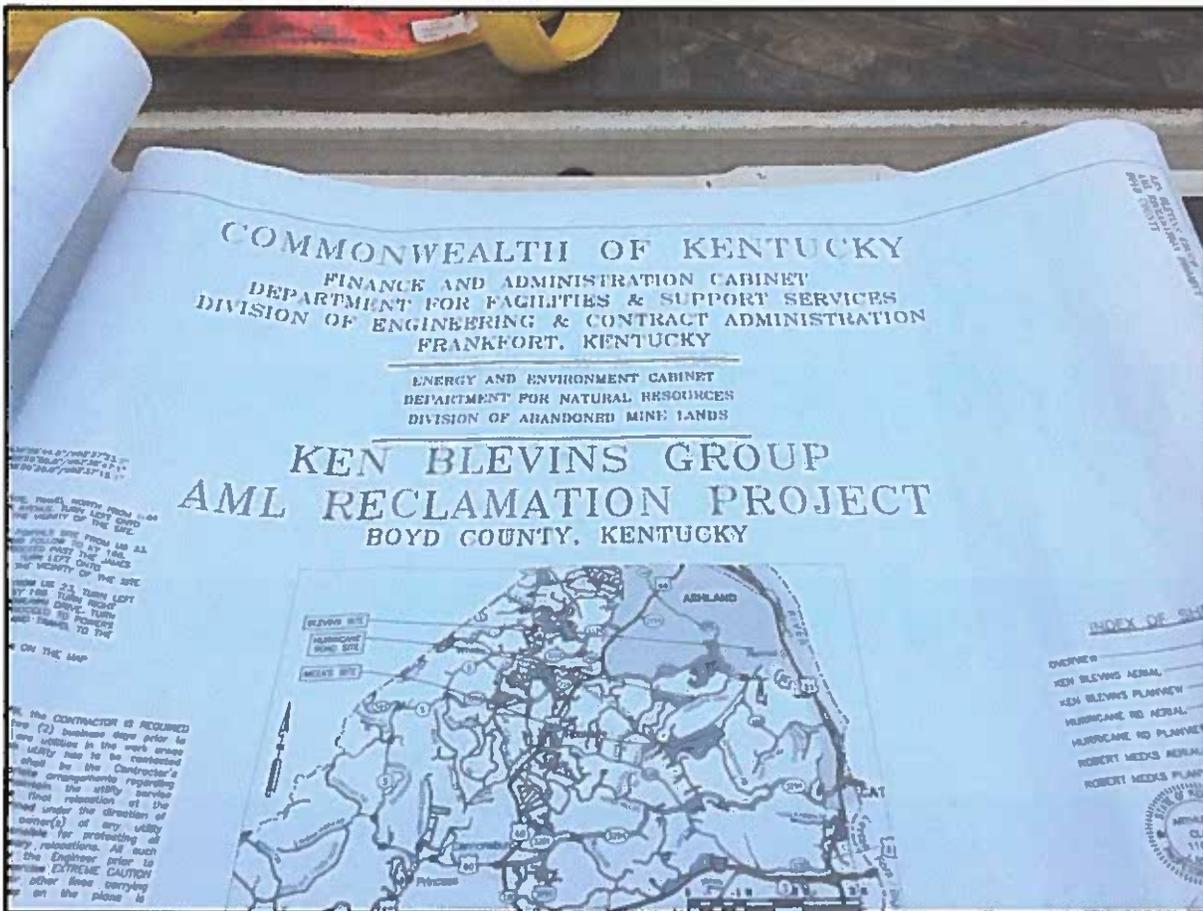
Jordan T. Montgomery
Environmental Scientist

ENERGY AND ENVIRONMENT CABINET

Department for Natural Resources
Division of Abandoned Mine Lands
3140 South Lake Drive, Suite 5
Prestonsburg, KY 41653

Phone: 606-889-1741
Fax: 606-889-1744
jordan.montgomery@ky.gov

Ashley Bowen
606-356-0285
KYDOW



Marion Russell

From: Rains, Abigail (EEC) <Abigail.Rains@ky.gov>
Sent: Wednesday, December 14, 2016 1:52 PM
To: MARION RUSSELL
Subject: FW: MS4 Ashland

***Abigail Rains
MS4 Coordinator
Division of Water
Surface Water Permits Branch
(502) 782-7044***

From: Rains, Abigail (EEC)
Sent: Wednesday, December 14, 2016 1:50 PM
To: Barclay, Sally (EEC)
Cc: Fraley, Daniel (EEC); Brosius, Lynne (EEC)
Subject: RE: MS4 Ashland

Sally,

First, Happy Birthday!! I hope you have had a great day!

Secondly, this is not an MS4 issue; I am only concerned with the quality of the stormwater, not the quantity. However, it may be a sanitary sewer overflow issue which is why I have copied Lynne.

The installation of the storm drains I am sure is an attempt to get the water out of the area so it does not overwhelm the manhole. Lynne?

***Abigail Rains
MS4 Coordinator
Division of Water
Surface Water Permits Branch
(502) 782-7044***

From: Barclay, Sally (EEC)
Sent: Wednesday, December 14, 2016 1:45 PM
To: Rains, Abigail (EEC)
Cc: Fraley, Daniel (EEC)
Subject: MS4 Ashland

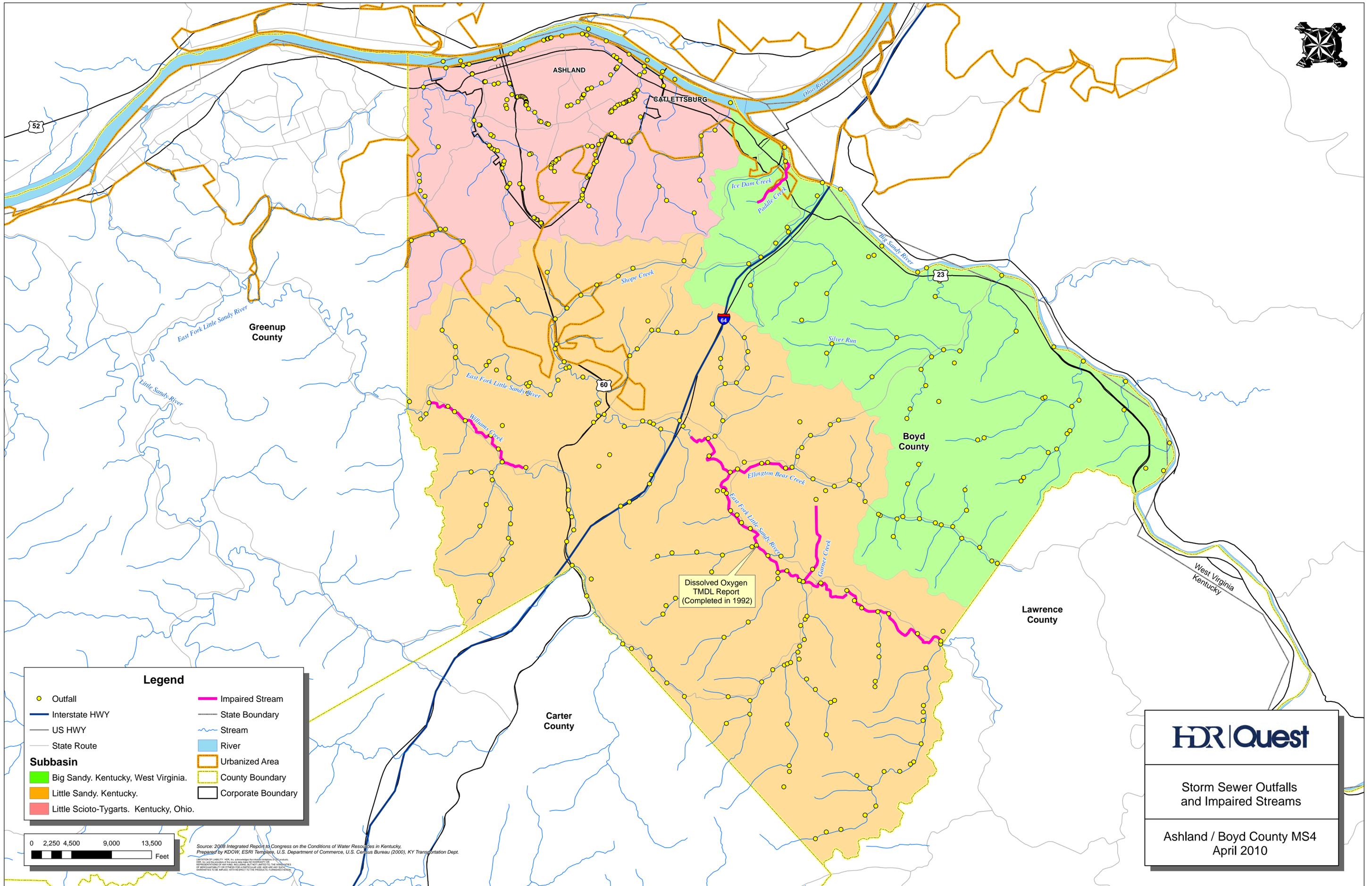
RE: Incident# 2419702

Abby,

I just assigned Morehead RO to investigate a complaint that I believe involves Ashland's MS4... I referred the complainant to Marion Russell (Ashland's MS4 contact person) to discuss the problem. For the sake of convenience, I am attaching the description for your review. Any comments from the peanut gallery will be welcomed:

In Ashland, KY, this MS4 community allegedly is installing storm drains that will increase the volume and velocity of stormwater near the complainant's home. The area the drain(s) will discharge to already is adversely impacted by stormwater, which causes manhole bypasses or discharges to Keyes Creek. Keyes Creek is a tributary to the Ohio River. The complainant states, that the manhole is in the floodplain. The manhole allegedly bypasses with every rain event. The complainant is concerned the installation of the new storm drain(s) will increase the number of bypasses, or volume of sewage discharging. Because the bypasses appear to be impacted by rain, and the new storm drain(s) will increase the volume discharging to the area.

Sally Barclay, ESIV
Complaints Coordinator
Division of Water
EEC-DEP-DOW
502-782-6884



Legend

- Outfall
- Interstate HWY
- US HWY
- State Route
- Impaired Stream
- State Boundary
- Stream
- River
- Subbasin
- Urbanized Area
- County Boundary
- Corporate Boundary

Subbasin

- Big Sandy, Kentucky, West Virginia.
- Little Sandy, Kentucky.
- Little Scioto-Tygarts, Kentucky, Ohio.



Source: 2008 Integrated Report to Congress on the Conditions of Water Resources in Kentucky. Prepared by KDOH, ESRI Template, U.S. Department of Commerce, U.S. Census Bureau (2000), KY Transportation Dept.

HDR Quest

Storm Sewer Outfalls
and Impaired Streams

Ashland / Boyd County MS4
April 2010

