



Boone County Hinkson Creek

Adaptive Management Progress Report

CAM Stakeholder Committee 2012-2013

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Hinkson Creek Adaptive Management Progress Report

March, 2014

Introduction. The Collaborative Adaptive Management (CAM) Stakeholders Group has met on 18 occasions and taken three field trips since its formation. Initially, efforts were directed at a legal, environmental and economic familiarization with the issue at hand and the process by which the group will progress. This encompassed a vigorous and wide-ranging exchange of ideas and expectations, a long list of significant “hotspots” that impinge on water quality, and a vision for the future of Hinkson Creek.

Following a thorough orientation to the CAM process (11/05/11), the group officially began its mission on April 30, 2012, solicited and heard a number of reports and presentations, conducted field trips, and approved several actions aimed at improving the aquatic quality of Hinkson Creek. CAM Fact sheet-

<http://www.helpthehinkson.org/documents/2012-03-28HinksonCreekCAMfactsheet.pdf>

I. Presentations and Reports.

- A. Dave Michaelson (MDNR): Overview of DNR Data and Assessment on the Hinkson. 08/01/12.
<http://www.helpthehinkson.org/CAMStakeholders.htm>

- B. Jason Hubbard, Professor of Forestry at University of Missouri –Columbia: Research Overview of the Hinkson. 08-01-12. See <http://www.helpthehinkson.org/CAMStakeholders.htm>
- C. Georganne Bowman, Storm Water Coordinator, Boone County: A Virtual Tour of Hinkson Creek. 08/29/12 See: <http://helpthehinkson.org/documents/HinksonCrvirtualtour.pdf>
- D. Gary Ward, Associate Vice Chancellor of Campus Facilities: A Summary of the Missouri University Master Plan (as it relates to the Hinkson). 03/07/13. See <http://helpthehinkson.org/documents/HinksonCrvirtualtour.pdf>
- E. Action Team: Website Timeline of Major Events Related to the Hinkson (06/11/13) See http://helpthehinkson.org/timeline-assets/timeline.html#!date=1996-04-21_20:25:18!
- F. Robb Jacobson, Branch Chief, USGS: Overview of Sampling Data. 09/26/13. See <http://www.helpthehinkson.org/Presentations-Reports/09-26-13%20Spatial%20variation%20of%20habitat%20-%20Hinkson.pdf>

G. Jason Warzinik, Boone County GIS Manager:
MoRap Stream Assessment Demonstration.
12/09/13. See
http://maps.showmeboone.com/viewers/Flex_Viewers/RM_Hinkson_GIS_Technical_Report_Final_2013

II. Field Trips.

- A. May 9, 2013. Stakeholders and representatives from the city and county toured various sections of the Hinkson Creek watershed, noting erosion and flow patterns, nearby development impacts, and monitoring stations.
- B. October 29, 2013. A tour of Best Management Practices in the Hinkson watershed, including detention facilities at Battle High School and Sunrise Estates, a fire station water garden, and a University of Missouri project that buffers storm water from a parking area.
- C. November 12, 2013. Invertebrate Sampling Demonstration by Dave Michaelson off Recreation Drive at the University of Missouri.

III. Actions.

- A. September 18, 2012. Phase 1 of the GIS Habitat Assessment was approved by consensus as the highest priority at this time to give us an understanding about the hydrology and the stream morphology.
- B. October 17, 2012. Following a discussion of possible projects, the group unanimously approved by voice vote a request to the city staff to develop a proposal for the Forum Nature Area storm water detention project.
- C. November 1, 2012. A motion to endorse the second phase of the Habitat Assessment Survey passed unanimously on a voice vote.
- D. January 31, 2013. A motion to support the Forum Nature Area Level Spreader Project (with a five-year monitoring requirement) passed unanimously on a voice vote.
<http://www.helpthehinkson.org/documents/ProjectProposal1.pdf>

IV. Status of Actions.

A. First Phase of Physical Habitat Assessment.

Missouri Resource Assessment Partnership (MoRAP) developed the requested Geographical Information Systems (GIS) data sets. MoRAP presented data and final report to the Stakeholders at the September 26, 2013 meeting.

<http://helpthehinkson.org/Presentations-Reports/07-31-13%20Hinkson%20GIS%20Technical%20Report%20Final%202013.pdf>

B. First Phase of Physical Habitat Assessment. Boone County owns the MoRAP data. Boone County GIS office prepared a map viewer for CAM members and public to interact with data from MoRAP report. The Boone County GIS office presented the first version of the map viewer to the Stakeholders at the December 9, 2013 meeting. Based on suggestions, Boone County will revise the map viewer in 2014. (Link in item I.G. of this report.)

C. Second Phase of Physical Habitat Assessment. Field investigation commenced in 2013. Approximately 25.6% of the stations to be evaluated were completed by December 31, 2013; this includes the section of Hinkson Creek from Forum Boulevard to Interstate 70. Anticipated completion of data collection is late summer 2014 with a final report by the end of 2014.

D. Forum Level Spreader. Project approvals and design was completed by December 2013.

Construction anticipated in early 2014.

<http://helpthehinkson.org/images/ConceptPlan.jpg>

V. Conclusion: A foundation has been established for implementing positive early action. Current early actions are beneficial and build support and awareness of the CAM process within the community. Opportunities for additional actions are being developed and will be implemented as funding is appropriated.

