

APPENDIX 1

Acronyms

Project Task Summary

Project Timeline

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APA	American Planning Association
BAGI	Building Association of Greater Indianapolis
BMP	Best Management Practices
CBBEL	Christopher B. Burke Engineering, Ltd.
CFO	Confined Feeding Operation
CSO	Combined Sewer Overflow
CQHEI	Citizen's Qualitative Habitat Evaluation Index
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
FCA	Fish Consumption Advisory
HBI	Hilsenhof Biological Index
HEL	Highly Erodible Land
HHRCD	Hoosier Heartland Resource, Conservation and Development
HOA	Homeowner's Association
HUC	Hydrologic Unit Code
IBI	Index of Biological Integrity
IDEM	Indiana Department of Environmental Management
ISDH	Indiana State Department of Health
IUPUI	Indiana University – Purdue University Indianapolis
KIB	Keep Indianapolis Beautiful
LFCWA	Lower Fall Creek Watershed Alliance
LID	Low Impact Development
LTCP	Long Term Control Plan
LTHIA	Long Term Hydrologic Impact Analysis
LUCI	Land Use Central Indiana
MCHD	Marion County Health Department
MCWEC	Marion County Wellfield Education Corporation
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
NPS	Non Point Source
OISC	Office of the Indiana State Chemist
PCB	Polychlorinated biphenyls
QHEI	Qualitative Habitat Evaluation Index
SRCER	Stream Reach Characterization Evaluation Report
STEP	Septic Tank Elimination Program
STEP-L	Spreadsheet Tool for Estimating Pollutant Loads
SWCD	Soil and Water Conservation District
TMDL	Total Maximum Daily Loads
TQP	Technically Qualified Person
TSS	Total Suspended Solids
UWRWA	Upper White River Watershed Alliance
WFPA	Wellfield Protection Area
WMP	Watershed Management Plan
WQS	Water Quality Standard

TASKS AS DEFINED BY IDEM/SWCD/CBBEL CONTRACT

Total Timeline = 30 months (December 21, 2006 through May 21, 2009)

Task A: Develop a Watershed Management Plan

- Develop a WMP according to IDEM's FFY 2003 "Watershed Management Plan Checklist".
- Submit 2 hard copies and 1 electronic copy of WMP to IDEM.
- Make DRAFT and FINAL copy of WMP available to local libraries, local officials, and land use planners in watershed, and on the Plan distribution list.
- Submit electronic copy of the draft plan and checklist to State for review and comment every 6 months.
- Submit completed plan to State 2 months prior to contract end date.
- Construct a comprehensive GIS for watershed including land use, streams, 303(d) listed streams, and monitoring site location data.

Task B: Macro Invertebrate Sampling

- Conduct a sampling program to identify water quality problems
- Develop a Quality Assurance Project Plan (QAPP) for monitoring activities and submit to State for review 1 month before initiating monitoring activities.
- Collect and analyze macro invertebrates twice at 10 sites in unstudied or understudied subwatersheds.

Task C: Education and Outreach

- Conduct Steering Committee meetings of 11-15 local stakeholders on a quarterly basis.
- Establish 3 Working Committees to meet as needed of less than 20 experts each to discuss land use, education, and water quality.
- Conduct 2 Stakeholder Meetings
- Conduct 3 Workshops
- Develop 1 educational brochure
- Develop 3 newsletter articles focusing on issues specific to the project
- Update SWCD monthly

Task D: BMP Demonstration Project Report

- Prepare a report identifying potential demonstration projects for BMPs in targeted critical areas within the watershed.
- Provide pollutant load reduction estimates for BMPs implemented by the SWCD.

TIMELINE AS DEFINED BY IDEM/SWCD/CBBEL CONTRACT

Total Timeline = 30 months (December 21, 2006 through May 21, 2009)

<p>First Quarter (Dec 2006, Jan, Feb 2007)</p>	<p><i>Delayed start due to time needed to hire contractor and negotiate contract (contract signed May 8th)</i></p>
<p>Second Quarter (Mar, Apr, May 2007)</p>	<ul style="list-style-type: none"> • Begin analysis of existing watershed data • Conduct Steering Committee meeting #1 (5/31) • Develop GIS for watershed • Start drafting sections of the WMP
<p>Third Quarter (Jun, Jul, Aug 2007)</p>	<ul style="list-style-type: none"> • Continue developing GIS for watershed • Draft Newsletter #1 (7/20) • Conduct Public meeting #1 (7/24) • Distribute Brochure • Conduct Working Group meetings <ul style="list-style-type: none"> • Water Quality #1 (8/7) • Land Use/Economic Development #1 (8/14) • Education/Outreach #1 (8/16) • Conduct Steering Committee meeting #2 (8/22) • Continue drafting sections of the WMP • Submit DRAFT WMP & Checklist (1.0 Watershed Planning, 2.0 Watershed Overview) • Submit monthly reports to IDEM via SWCD
<p>Fourth Quarter (Sep, Oct, Nov 2007)</p>	<ul style="list-style-type: none"> • Continue developing GIS for watershed • Conduct Working Group meetings (as needed) <ul style="list-style-type: none"> • Water Quality #2 (11/13) • Land Use/Economic Development #2 (11/13) • Education/Outreach #2 (12/13) • Continue drafting sections of the WMP • Submit monthly reports to IDEM via SWCD
<p>Fifth Quarter (Dec 2007, Jan, Feb 2008)</p>	<ul style="list-style-type: none"> • Draft QAPP • Continue developing GIS for watershed • Conduct Working Group meetings <ul style="list-style-type: none"> • Water Quality (waiting on macro data) • Land Use/Economic Development #2 (2/12) • Education/Outreach #1 (2/28) • Conduct Steering Committee meeting #3 (2/12) <i>Topic: Land Use & Land Use Change</i> • Continue drafting sections of the WMP • Draft BMP Demonstration Project Report • Submit DRAFT WMP & Checklist (1.0 Watershed Planning; 2.0 Watershed Overview; 3.0 Water Quality Problems, Causes & Sources; 4.0 Identification of Critical Areas) (12/21) • Submit QAPP (draft 1/17; approved 3/17) • Submit monthly reports to IDEM via SWCD

<p>Sixth Quarter (Mar, Apr, May 2008)</p>	<ul style="list-style-type: none"> • Conduct macro invertebrate sampling #1 • Continue developing GIS for watershed • Conduct Working Group meetings (as needed) • Conduct Steering Committee meeting #4 (5/13) <i>Topic: Surface & Ground Water Quality</i> • Draft Newsletter #2 (3/30) • Continue drafting sections of the WMP • Submit BMP Demonstration Project Report • Submit DRAFT WMP & Checklist (1.0 Watershed Planning; 2.0 Watershed Overview; 3.0 Water Quality Problems, Causes & Sources; 4.0 Identification of Critical Areas; 5.0 Goals & Decisions) • Submit monthly reports to IDEM via SWCD
<p>Seventh Quarter (Jun, Jul, Aug 2008)</p>	<ul style="list-style-type: none"> • Finish developing GIS for watershed • Conduct Steering Committee meeting #5 (8/12) <i>Topic: Flooding & Flooding Impacts</i> • Conduct Workshop #1 (6/12 & 8/21) <i>Topic: Shoreline Stewards</i> • Finish drafting sections of the WMP • Submit monthly reports to IDEM via SWCD
<p>Eight Quarter (Sep, Oct, Nov 2008)</p>	<ul style="list-style-type: none"> • Conduct macro invertebrate sampling #2 • Incorporate comments on DRAFT WMP • Submit full DRAFT WMP to IDEM • Conduct Workshop #2 (11/12) <i>Topic: Backyard Conservation</i> • Submit monthly reports to IDEM via SWCD
<p>Ninth Quarter (Dec 2008, Jan, Feb 2009)</p>	<ul style="list-style-type: none"> • Draft Newsletter #3 • Distribute full DRAFT WMP to Public • Conduct Public Meeting #2 (1/15) <i>Topic: Present DRAFT WMP</i> • Conduct Workshop #3 (TBD) <i>Topic: Regulated Drains vs. Natural Waterways</i> • Conduct Steering Committee meeting #6 (1/29) <i>Topic: Project Wrap-up and Implementation</i> • Submit monthly reports to IDEM via SWCD
<p>Tenth Quarter (Mar, Apr, May 2009)</p>	<ul style="list-style-type: none"> • Calculate pollutant loads from BMPs implemented by SWCD • Submit Final WMP & Checklist to IDEM • Submit Final Project Report to IDEM • Submit monthly reports to IDEM via SWCD